Member of the BPW Group

CHASSIS BUILDING

Flexible solutions with Plug & Play

ERMAX®

ERMAX 3 YEAR WARRENTY

Material- and symbol explanation Ermax lighting

Material explanation	
PMMA	Acrylic plastic (polymethylmethacrylate) Maximum working temperature: 70-110 °C Melting point: 160°.
PP	Polypropylene Maximum working temperature: 80-90 °C Melting point: 165°
PC	Impact resistant polycarbonate Maximum working temperature: 135 °C Melting point: 300 °C.
ABS	Thermoplast - Black plastic Maximum working temperature: 80-105 °C.

Symbol explanation	
Ⓔ	ECE approved
ECE R65	ECE Approved R65
EMC	Electromagnetic test according to R10
CE	CE Approved
	ADR/GGVS - Approved for use on vehicles carrying dangerous goods
ECE 104	Meets guidelines for the use of retro reflective safety markings on heavy vehicles
XA1 / XA2	X - Direction indicator unit A - Amber 1 - Class 1 2 - Class 2

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Part numbers from original manufactures are for reference purpose only and may not be used in offers or other material

ERMAX® – YOUR PARTNER FOR COMPLETE LIGHTING SYSTEMS

ERMAX A/S

- develops, manufactures and distributes a wide range of products within lighting, junction boxes and cable systems for commercial vehicles and industrial applications.

A unique set-up with a combination of our factory in Denmark and licensed production with our own tools at a number of selected and exclusively certified partners worldwide, offers an extensive, highly competitive and qualitative range of products.

The Brand - ERMAX®

Founded in 1948 the Ermax® lighting technology has been manufactured for the automotive industry for almost 7 decades.

Ermax is the partner, when it comes to understanding and fulfilling the needs of lighting; with tail lights, warning lights, beacons, side markers or work lights – nowadays bulb, LED as well as in hybrid technologies. These lighting components are being offered within a complete solution concept of ADR approved cables and, where required, junction boxes as well as mounting hardware. All cable sets are configured with multiple connector types to ensure the best lifetime service ability.

Why Ermax® Lighting Systems ?

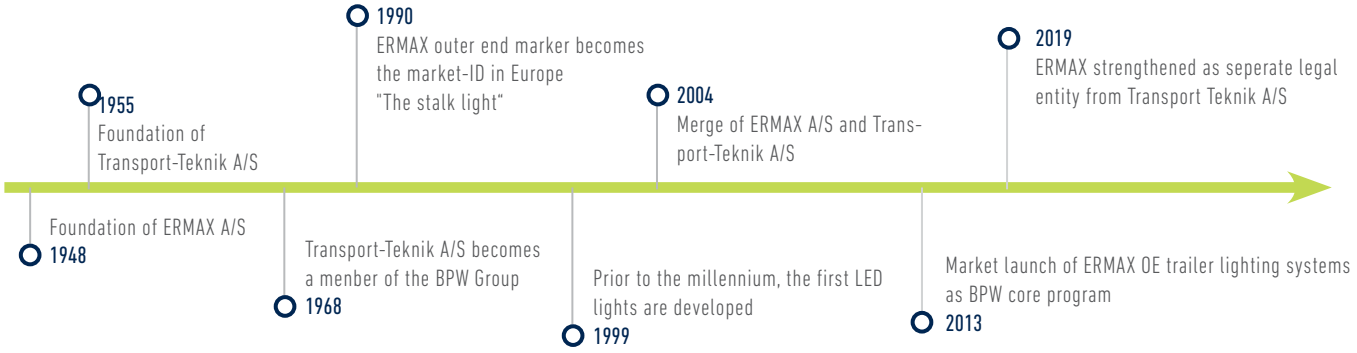
Partnership through quality, reliability and competence.

Our competence in partnering with you, is our extensive experience in being an OEM partner with quality and on time delivery as daily focus to ensure expectations and execution match entirely with your requirements.

All our products hold the necessary certifications for E-marking, IP-predection, ADR-approval and design predections to ensure exclusive design and durability as well as non-violation of patents.

With reliable and planned processes you will reach your goal safely with us as partner.

ERMAX A/S, Kolding, Denmark



DISTRIBUTION NETWORK WORLDWIDE

Always close to you

As a memeber of the BPW Group, which operates worldwide, we have an unique sales and distribution network with local offices and support for the benefit of all our business partners.

SOLUTIONS - AS INDIVIDUAL AS YOUR TASKS AND REQUIREMENTS

As ERMAX customer you will achieve the following:

- High quality for every area
- Vehicle-customised solutions
- Focus at the newest technology and innovative products with recognizable design
- Production company with development competences under one roof
- European after-sales service network

ERMAX lighting systems:

- Wide palette including cables, plugs and lights - all according to customer requirements
- LED and SIMAC control unit built in tail light
- Eternal Light® -increasing trafic safety
- ADR approved cable kits with 7 poled AMP 1.5 and Super Seal plugs
- Unbeatable, impact resistant and long life solutions

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ERMAX CABLE SYSTEMS FOR 24V

OVERVIEW AND INTRODUCTION TO PLUG CONNECTION

ERMAX connections consist of 2, 3, 4, 7 and 15 poled plugs and sockets connections– all of high quality and easy and simpel to mount and maintain. These connections types are used in all ERMAX cables and lighting systems for truck and trailer 24V.

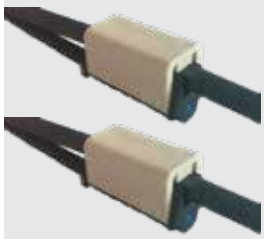
All ERMAX connection are remoulded, which ensures a high quality and long life solution. cables, plugs and sockets are ADR approved and tested according to IP rating 69K.

Super Seal connection

Super Seal sockets and plugs (respectively 2, 3 and 4 poled) make mounting of e.g. position lights, side marker lights, outer end marker lights and work lights easy, reliable and simple.

- Easy and simple mounting
- Easy replacement of light component in case of damage
- Extremely duable and long life connection

Click-in connection



2 poled Click-in makes mounting of position lights, side marker lights, outer end marker lights and other 2 poled components easy and simple.

- Easy and simpe mounting
- Fast positioning
- Time-consuming parts replacement

Deutsch (DT) connection

Deutsch sockets and plugs - (respectively 2 and 4 poled) make mounting of e.g. position lights, side marker lights, outer end marker lights and work lights easy, reliable and simple.

- Easy and simple mounting
- Easy replacement of light component in case of damage
- Extremely duable and long life connection

Overview of dimension and pin configuration of all Ermax connections can be found in the last section of this catalogue

7 and 4 poled AMP 1.5 connection

7 and 4 poled AMP 1.5 connections are used to connect ERMAX tail lights to the cable system. It can also be used to connect other extra components to the system.

- Rounded off pin-legs and bayonet lock ring
- Extremely durable connection
- Standard plug connection- commonly known in the market

15 poled ERMAX Bayonet connection

15 poled ERMAX bayonet connection is used to connect front cable, main cable and rear cable as well as in the case of mounting a junction box.

- Rounded off pin-legs and bayonet lock ring
- Extremely durable connection
- Standard plug connection- commonly known in the market

	Outlet from main cable	Side marker light	Position light	License plate light	Outer end marker light	Work light	Reverse lgiht	interior lighting	Tail light	Reverse light	Junction box	Main cable	Rear cable
2 poled Super Seal	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓		
2 poled Click-in		✓	✓	✓	✓	✓	✓	✓					
2 poled Deutsch (DT)						✓	✓						
7 poled AMP 1.5	✓								✓	✓	✓		✓
15 poled ERMAX Bayonet											✓	✓	✓

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Plug & Play solution for vehicle building

Modern rear end with intelligent wiring

ERMAX®

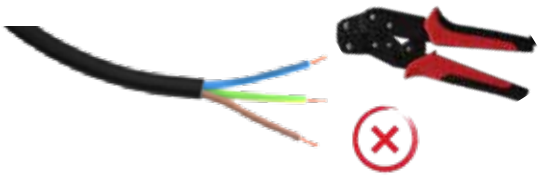
Plug & Play solution from Ermax
Developed for the technical and more simple and time-saving installation

ERMAX Plug & Play upgrading kit with many advantages and opportunities

- A pre-assembled cable set makes a direct plug & play mounting of plugs, cables and ERMAX Eternal Light® tail lights
- Possibility for flexible connections for e.g. extra position light, outlets for reverse light and reverse gear alarm, without interferring with the exsisting wiring
- Higher quality and safety when connecting the cables with the plug & play solutions
- Time-saving up to 8 hours for a standard vehicle - and even bigger time-saving with customized solutions
  - plug & play installation of plugs, cables and lights
  - Junction box with Super Seal sockets or cable glands for all lighting fuctions
- Secure and documentable installation
  - No change of liability in warranty obligations, as existing wiring will not be opened
- Easy to replace damaged parts
- All fuctions are accessible with either Super Seal sockets or cable glands
- The Standard upgrading kits are packed individually in a box - Simple and effective

Time-saving and easy mounting

Length reduction, stripping, use of blade receptacles etc. will be eliminated with this development from Ermax. A finished pre-assembled cable system means a plug & play solution of cable, plug and lights for vehicle building or rebuilding – meaning a time-saving and flexible mounting.



Ermax offers plug connections consisting of 2, 7 or 15-poled plugs and sockets – plug connections all of very high quality – mounting and maintenance are easily made. Ermax plug connections are being used in all our lighting systems for 24V heavy vehicles and trailer systems. All parts are easily mounted, process secured and time-saving.

The plug connections are remoulded which ensures high quality and a long life-time. Cables and plugs are ADR approved and tested according to IP Rating 69K protection.

2 and 3 poled Super Seal connection

4 and 7 poled AMP 1.5 connection

15 poled Ermax Bayonet connection

Junction box for Plug & Play time-saving solution

Junction box with many possibilities

With Ermax junction box integrated in the cable system you will have all the AUX functions normally found in a trailer.

Junction box - Universal

Junction box - for crane module

In other words – here is the possibility to use all pre-configurated ISO12098 connections (pin 9-15). This could be functions as e.g. working lights, warning lights, beacons or power supply.

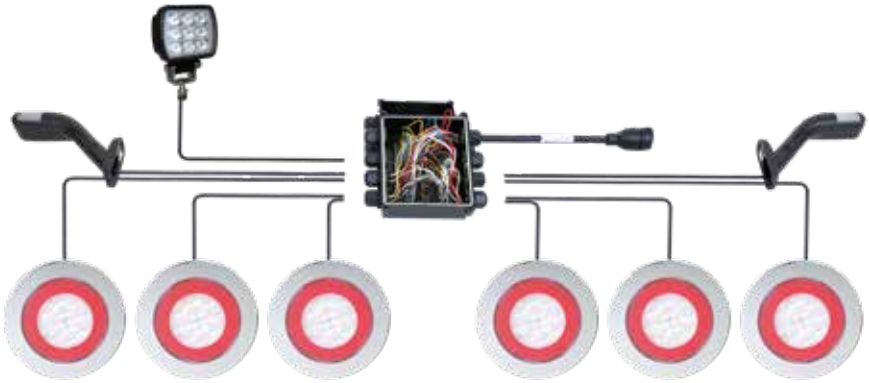
All functions are available by using Super Seal sockets or cableglands

For the crane module solution, it is mandatory that the tail lights are connected in the junction box, as the tail lights can thus be passed on to the crane module.

Plug & Play configuration - Time-saving mounting

Open end configuration - Time-demanding mounting

Junction box - Open end



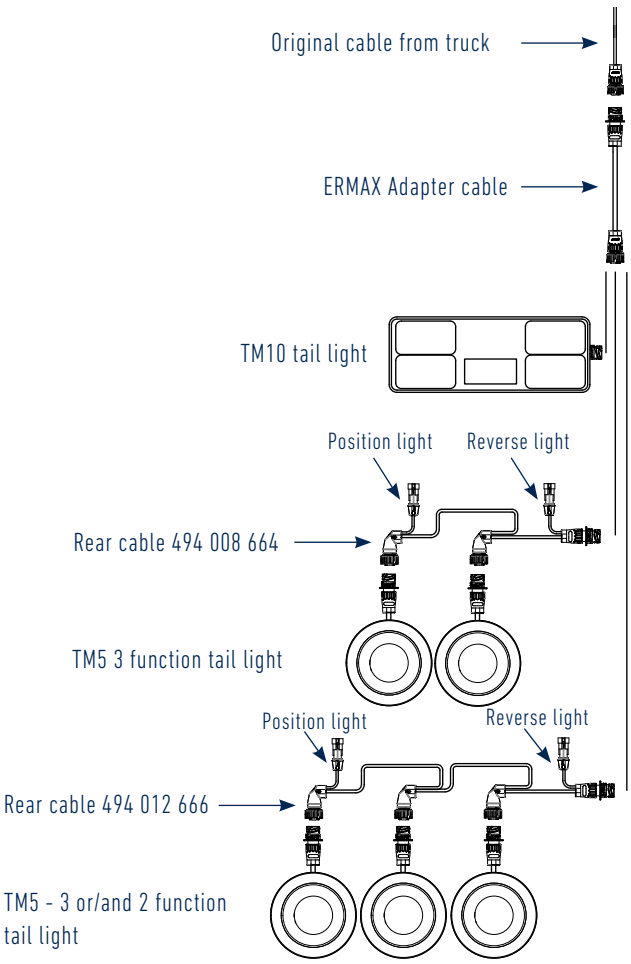
Plug & Play solutions - without junction box

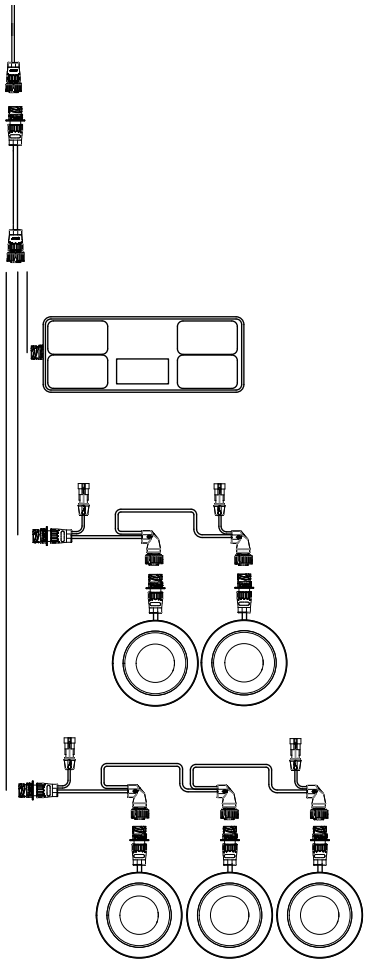
ERMAX LED tail lights with time-saving mounting – directly integrated in the vehicle

A finished pre-assembled cable set makes a direct plug & play mounting of plugs, cables and ERMAX Eternal Light tail lights (TM5 and TM10) possible.

Time-saving up to 8 hours for one vehicle using the plug & play solution.

Configuration - Upgrading of vehicle without junction box



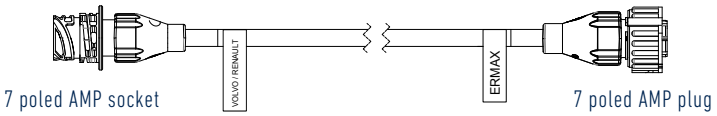


*) Outlets marked with position light are for connection of outer end marker light

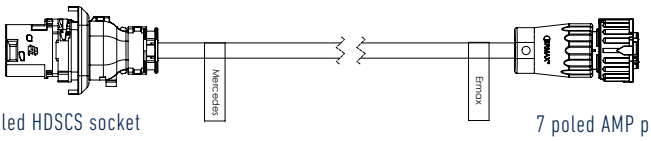
See section "Tail lights" for other variations of ERMAX tail lights

ERMAX Adapter cable

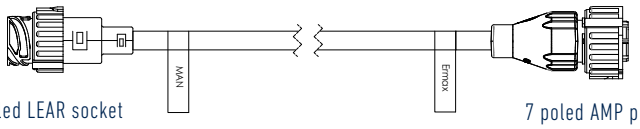
Volvo / Renault



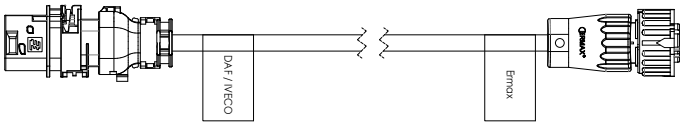
Mercedes Benz



MAN



DAF and IVECO



Configuration - Vehicle type and cables

Type	Adapter	Rear cable, 3/2 function tail light - 2 x 3 pcs.	Outer end marker lights example (right / left)	Reverse light
Scania	not necessary	see previous page or the following section "tail lights"	098 241 438 / 439 (for other variants see section "outer end marker light")	All variations with Super Seal plug can be used
Volvo / Renault	994 003 200			
Mercedes Benz	994 003 210			
MAN	994 003 220			
DAF and Iveco	994 003 230			

TM10 LED tail light
098 216 508 / 509

TM10 Hybrid tail light
098 216 408 / 409

Option: The cable can be lead through the side of the mounting foot

TM5 3 function
098 212 102

TM5 2 function
098 255 102

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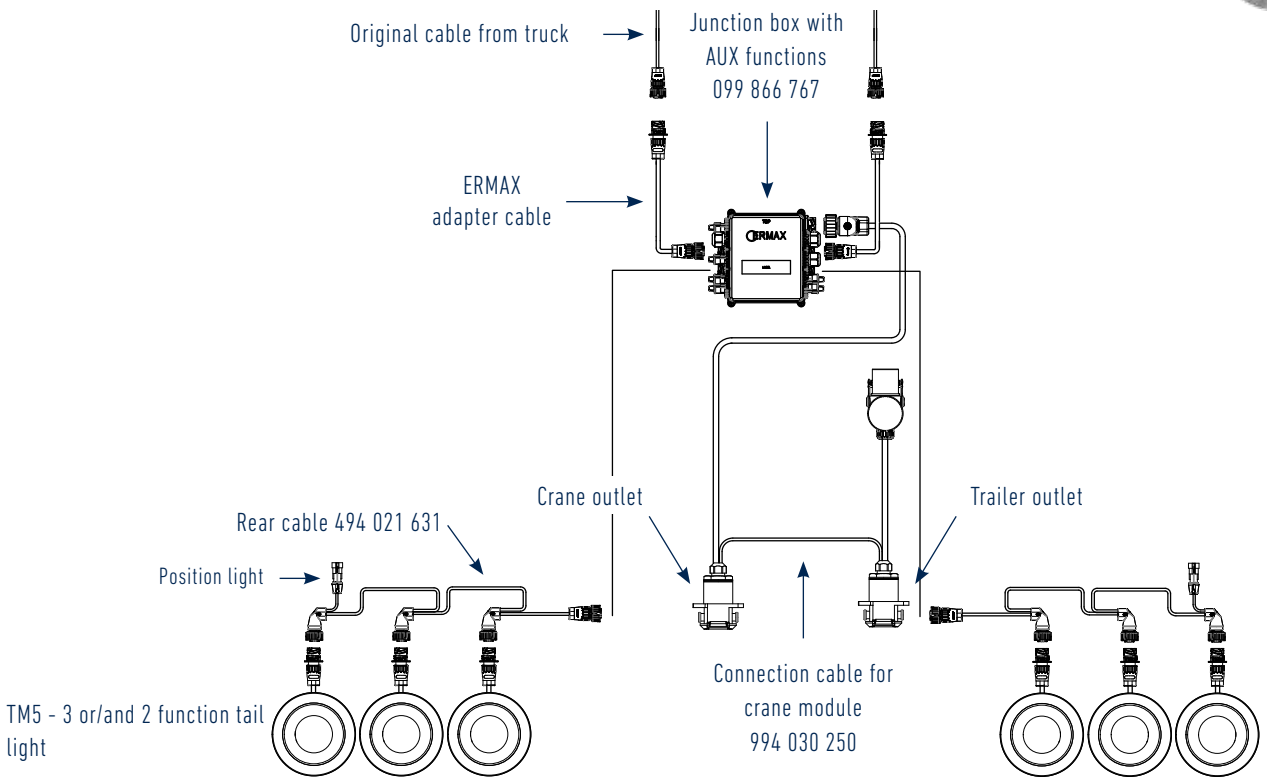
Plug & Play solutions - with junction box and AUX-functions

ERMAX LED tail lights with time-saving mounting – directly integrated in the vehicle

A finished pre-assembled cable set makes a direct plug & play mounting of plugs, cables and ERMAX Eternal Light tail lights (TM5 and TM10) possible – a solution making many AUX functions / connections possible by means of junction box and further plugs.

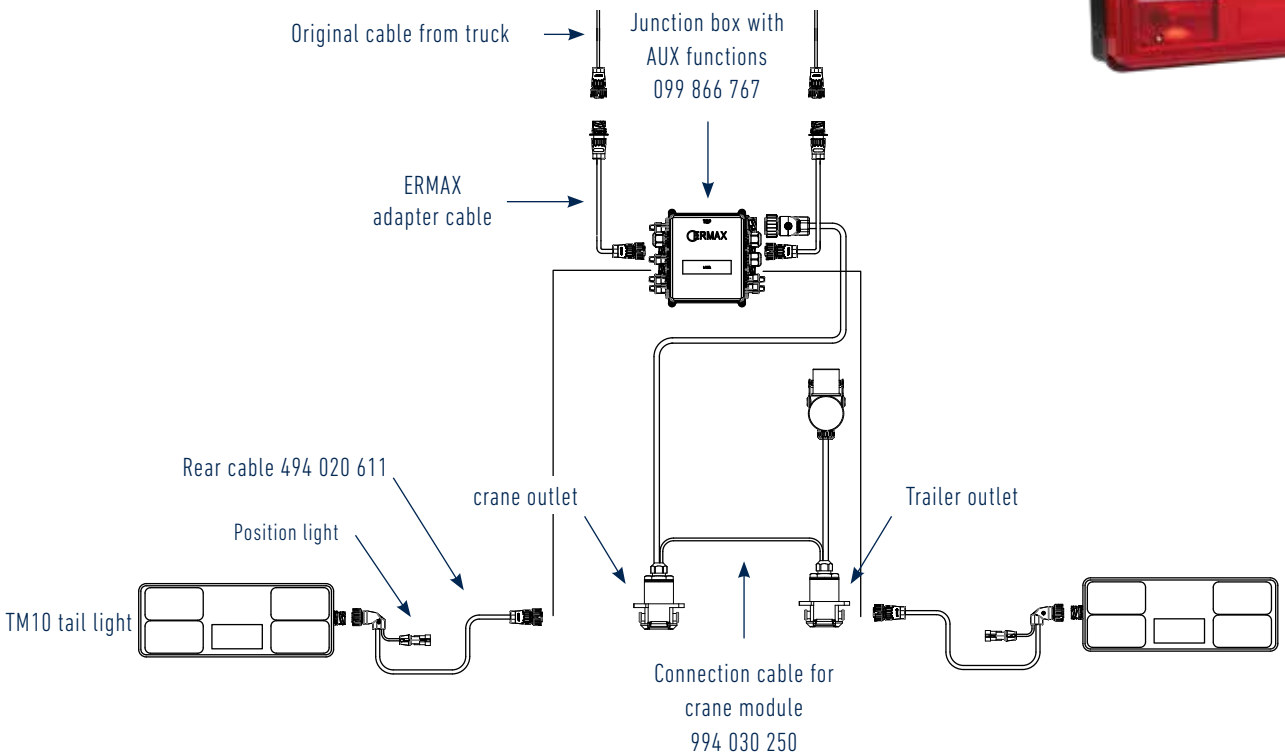
Time-saving up to 8 hours for one vehicle using the plug & play solution.

Configuration - Upgrading of vehicle with junction box, prepared for crane module



*) Outlets marked with position light are for connection of outer end marker light

See section "Tail lights" for other variations of ERMAX tail lights



*) Outlets marked with position light are for connection of outer end marker light

See section "Tail lights" for other variations of Ermax tail lights"

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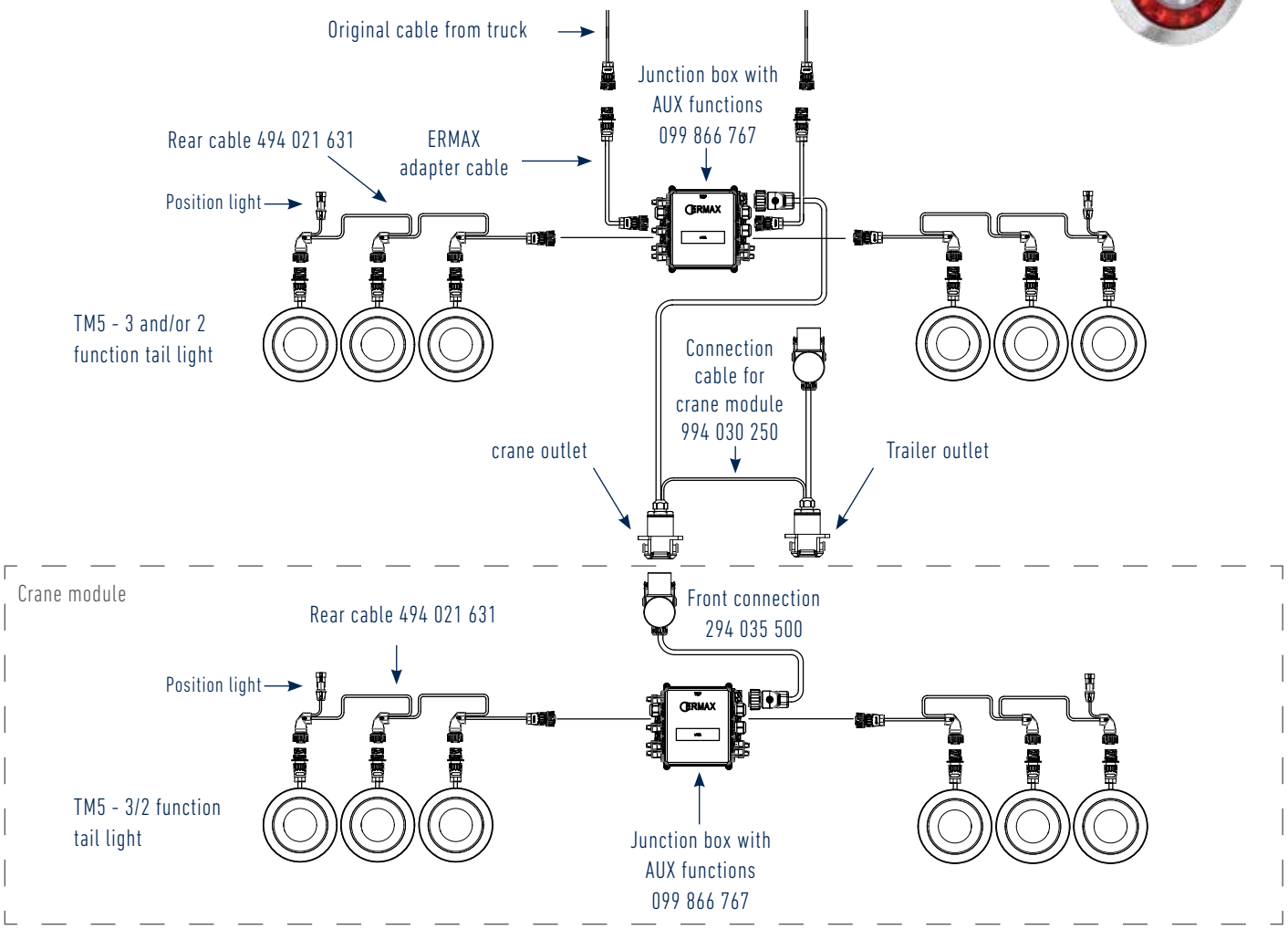
Plug & Play solutions - with crane module

ERMAX LED tail lights with time-saving mounting – directly integrated in the vehicle

A finished pre-assembled cable set makes a direct plug & play mounting of plugs, cables and ERMAX Eternal Light tail lights (TM5 and TM10) possible – a solution making many AUX functions / connections possible by means of junction box and further plugs.

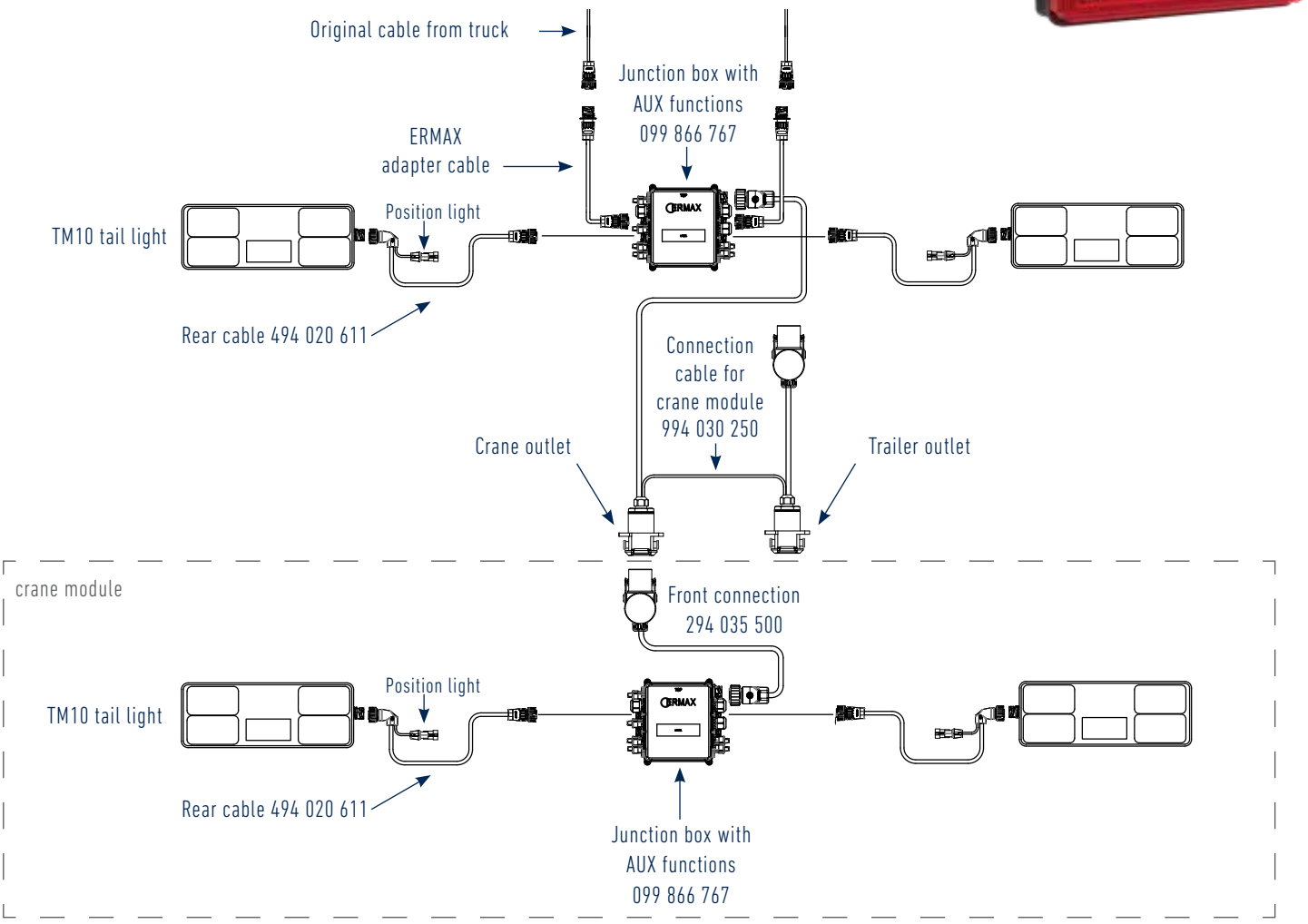
Time-saving up to 8 hours for one vehicle using the plug & play solution.

Configuration - Upgrading of vehicle with junction box, incl. crane module without connection to trailer



*) Outlets marked with position light are for connection of outer end marker light

See section "Tail lights" for other variations of ERMAX tail lights



*) Outlets marked with position light are for connection of outer end marker light

See section "Tail lights" for other variations of Ermax tail lights

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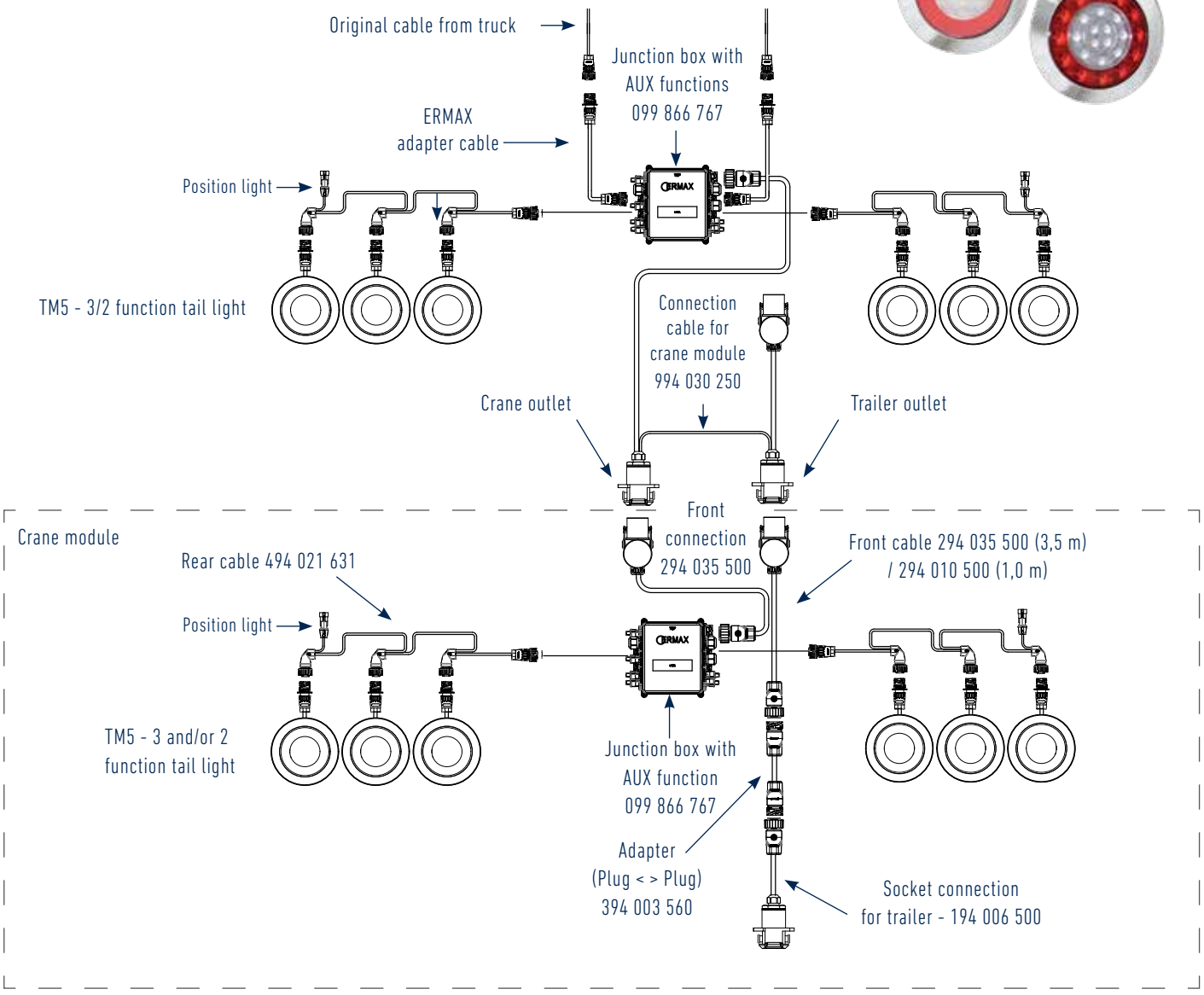
Plug & Play solution - with crane module and connection to trailer

ERMAX LED tail lights with time-saving mounting – directly integrated in the vehicle

A finished pre-assembled cable set makes a direct plug & play mounting of plugs, cables and ERMAX Eternal Light tail lights (TM5 and TM10) possible – a solution making many AUX functions / connections possible by means of junction box and further plugs.

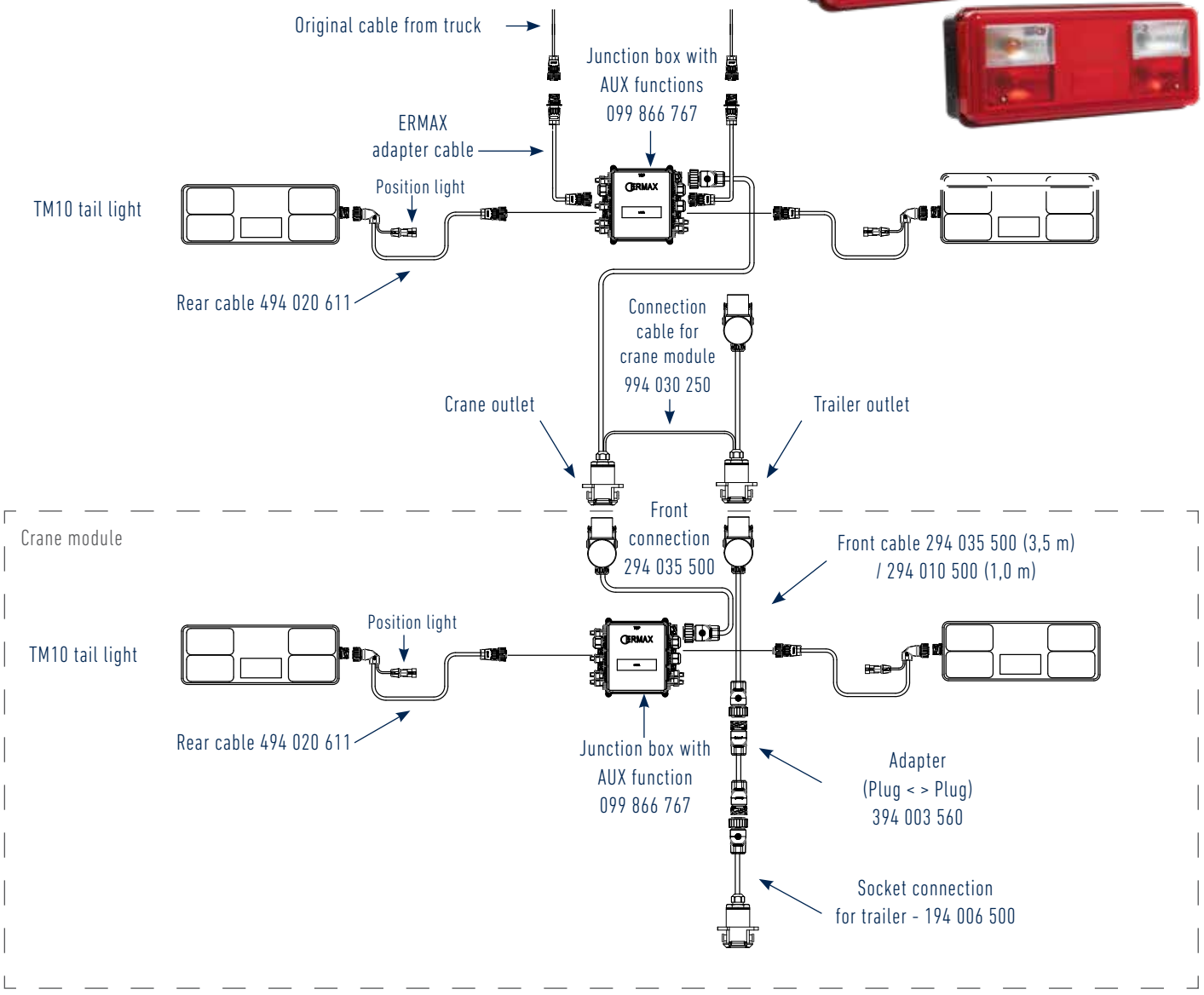
Time-saving up to 8 hours for one vehicle using the plug & play solution.

Configuration - Upgrading of vehicle with junction box, incl. crane module and socket connection for trailer to the crane module



*) Outlets marked with position light are for connection of outer end marker light

See section "Tail lights" for other variations of ERMAX tail lights

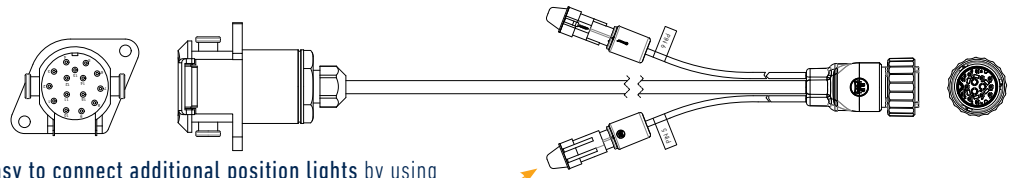
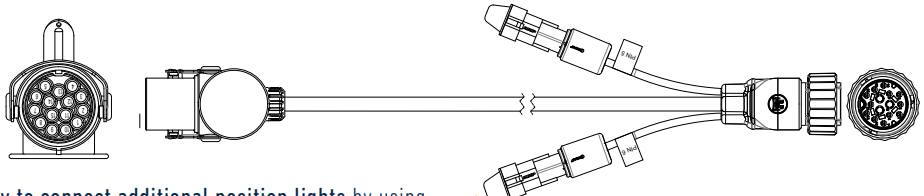


*) Outlets marked with position light are for connection of outer end marker light

See section "Tail lights" for other variations of Ermax tail lights

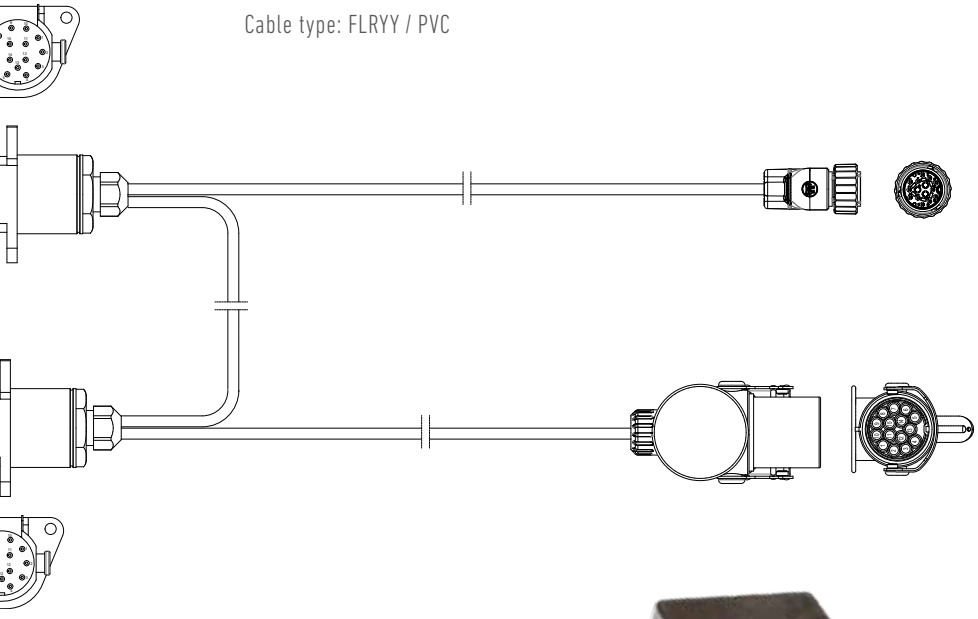
Part numbers from original manufactures are for reference purpose only and may not be used in offers or other material

Crane module chassis building - Front cable

	Application / Description	Article No.
	Front cable with 15 poled socket, straight ISO Standard: 12098 With Ermax bayonet plug Conductor cross-section: 12x1 mm^2 + 3x2,5 mm^2 Cable type: FLRYY / PVC	
	15 core cable 600 mm	194 006 500
	15 core cable 600 mm 2x2 poled outlet with Super Seal socket ISO 12098 pin 5 position left + pin 6 position right	194 006 501
 **Easy to connect additional position lights** by using the 2 poled Super Seal outlets		
	Front cable with 15 poled plug, straight ISO Standard: 12098 With Ermax Bayonet plug Conductor cross-section: 12x1 mm^2 + 3x2,5 mm^2 Cable type: FLRYY / PVC	
	15 core cable 1.000 mm	294 010 500
	15 core cable 3.500 mm	294 035 500
	15 core cable 4.800 mm	294 048 500
	15 core cable 4.800 mm 2x2 poled outlets with Super Seal sockets ISO 12098 pin 5 left postion + pin 6 right position	294 048 501
 **Easy to connect additional position lights** by using the 2 poled Super Seal outlets		

Crane module chassis building - Main cable adapter & connection cable

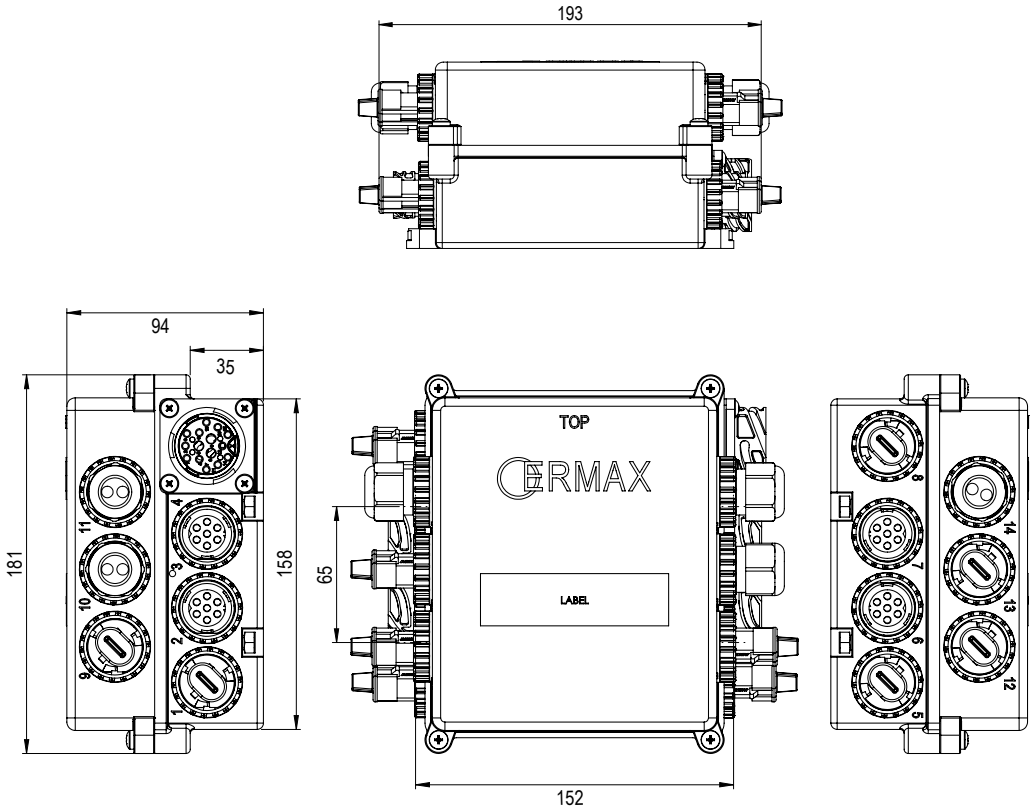
	Application / Description	Article No.
	Main cable Adapter 15 poled Ermax bayonet plug > plug Conductor cross-section: 12x1 mm^2+3x2,5 mm^2 Cable type: FLRYY / PVC 15 core 300 mm	394 003 560
	Connection cable for crane chassis building ISO12098 plug > 2 x ISO12098 socket + 15 poled Ermax bayonet plug ISO12098 plug with 500 mm 15 poled cable for ISO12098 socket (trailer connection) 1.000 mm 7 poled cable for ISO12098 socket (connection for crane module) 1.500 mm 15 poled cable with 15 poled Ermax plug for junction box. Applies in connection with junction box 099866767 Conductor cross-section: 15 core cable : 12 x 1,0 mm^2 + 3 x 2,5mm^2 7 core cable : 7 x 1,0mm^2 Cable type: FLRYY / PVC	994 030 250



Above connection cable should be applied together with junction box 099 866 767 for crane chassis building

Junction box crane module - chassis building

	Application / Description	Article No.
	Junction box for crane module chassis building (in connection with coil cable 994 030 250) Black plastic housing IP Rating: IP 67 High cover - Connection possibilities: Inlet: 1 x 15 poled Ermax bayonet socket Outlet: 4 x 7 poled AMP socket (Pos. 2, 3, 6, 7) 3 x Cable through rubber grommet 2 x ø5,5 mm (Pos. 10, 11, 14) 1 x Super Seal socket, position light right (Pos. 5) 1 x Super Seal socket, position light left (Pos. 1) 1 x Super Seal socket, reverse (Pos. 8) 1 x Super Seal socket, AUX1 (Pos. 12) 1 x Super Seal socket, AUX2 (Pos. 9) 1 x Super Seal socket, AUX3 (Pos. 13) The vehicle's original tail light functions should be connected to the juction box with e.g. an adapter cable with 7 poled AMP socket. Tail lights should be connected to 7 poled AMP sockets.	099 866 767



Plug & Play solutions for SCANIA

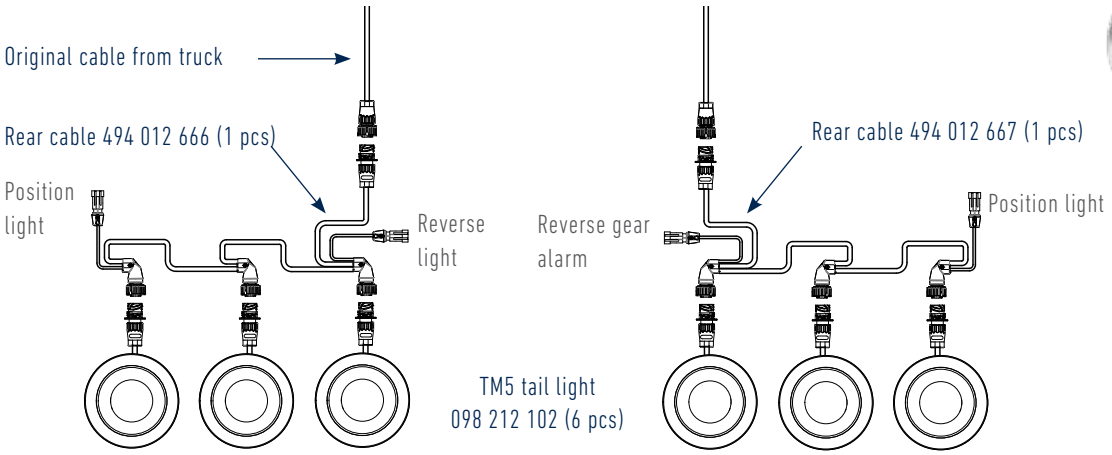
ERMAX®

SCANIA - Plug & Play solution TM5 LED tail light

A complete upgrading kit from ERMAX with LED tail lights and time-saving mounting - directly integrated on the vehicle

A pre-assembled cable set enables a direct plug & play mounting of plug, cables and ERMAX Eternal Light® tail lights (TM5, TM10 and TM11) – a solution with opportunity for flexible connections of e.g. position lights, reverse light and reverse gear alarm, all without opening the exsisting wiring on the truck. In addition to this high quality solution, a significant time-saving on the vehicle is achieved by using this plug & play solution.

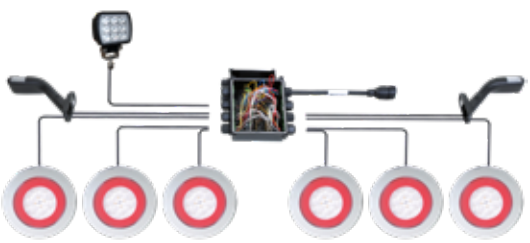
STANDARD upgrading kit with TM5 tail light 3 function — **Article no. TM091050010**



OBS - It is possible to disconnect the reverse gear alarm from the truck, if rear cable 494 016 667 is installed in connection with the external reverse gear alarm.

ERMAX Plug & Play upgrading kit with many advantages and opportunities

- Time-saving up to 8 hours
  - plug & play installation of plugs, cables and lights
  - Junction box with Super Seal sockets or cable glands for all lighting fuctions
- Secure and documentable installation
- No change of liability in warranty obligations, as existing wiring will not be opened
- Easy to replace damaged parts
- All fuctions are accessible with either Super Seal sockets or cable glands
- The Standard upgrading kits are packed individually in a box - Simple and effective



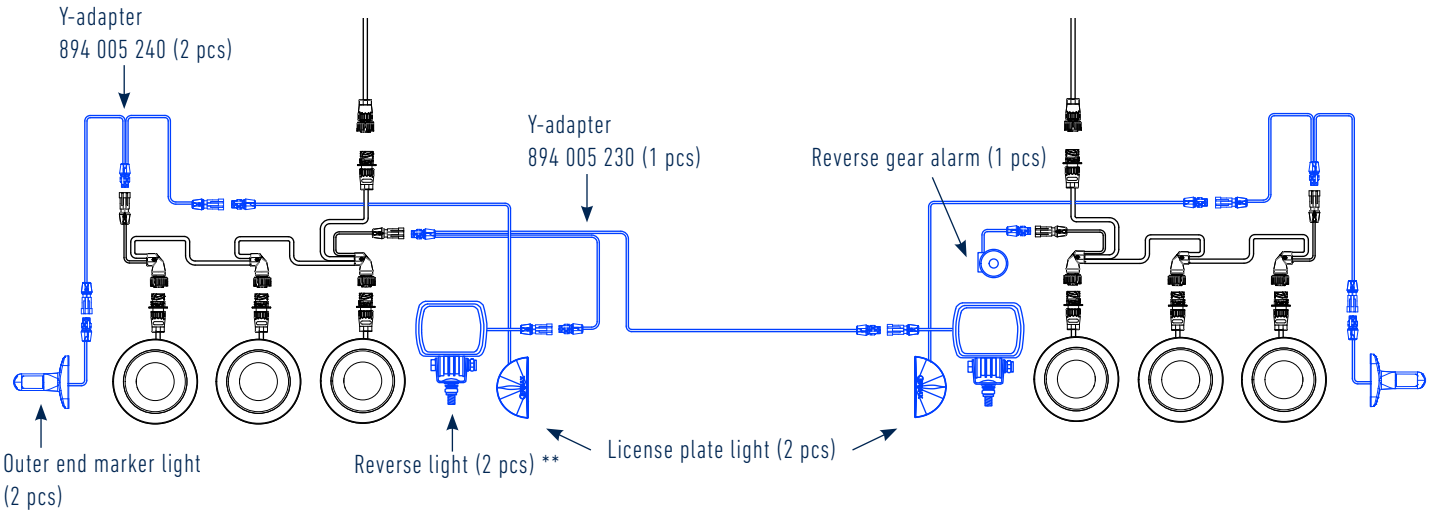
Time demanding installation with juction box and open end solution

Plug & Play mounting - Time-saving

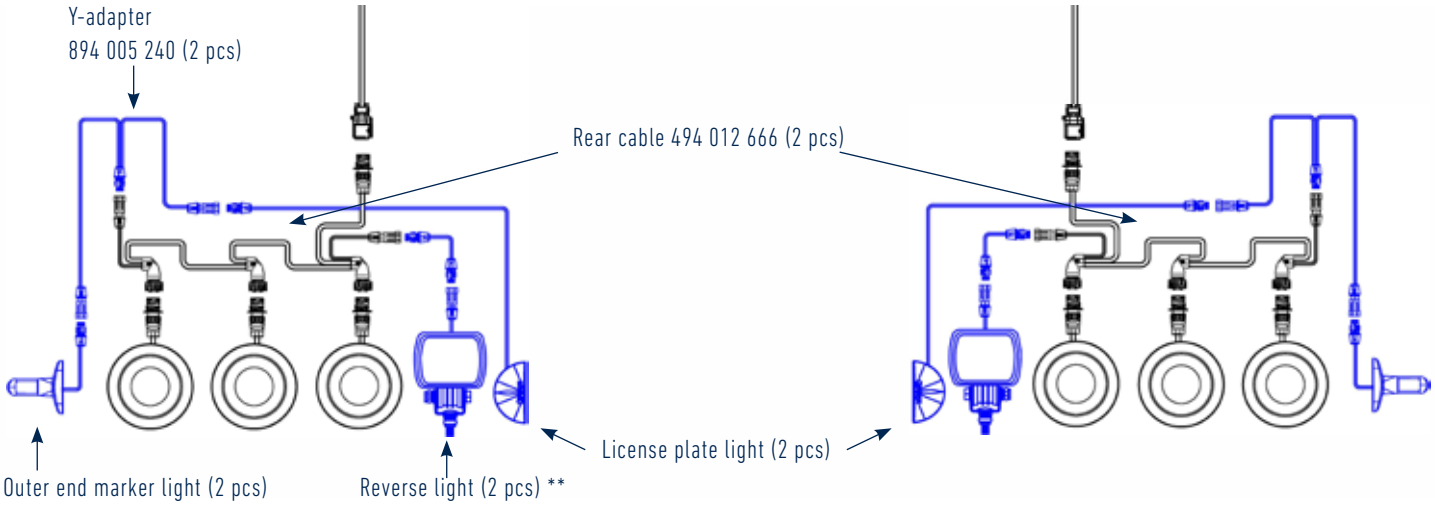
Drawing of complete lighting system with various options of functions

- Option to integrate more lighting functions if needed
- Outlet for reverse light and/or reverse gear alarm from the rear cable
- Easy and time-saving mounting, also for retrofitting

Components marked with blue on below drawing are possible options in relation to the standard kit TM091050010 on previous page.

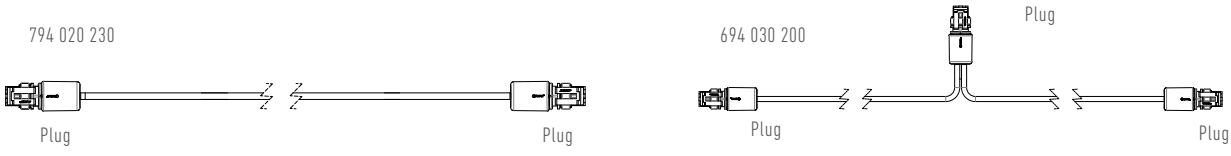


Drawing of rear cable 494 012 666 with outlet for reverse light, mounted on both sides of the vehicle (without reverse gear alarm)



OBS** Connection of reverse lights to rear cable 494 012 666

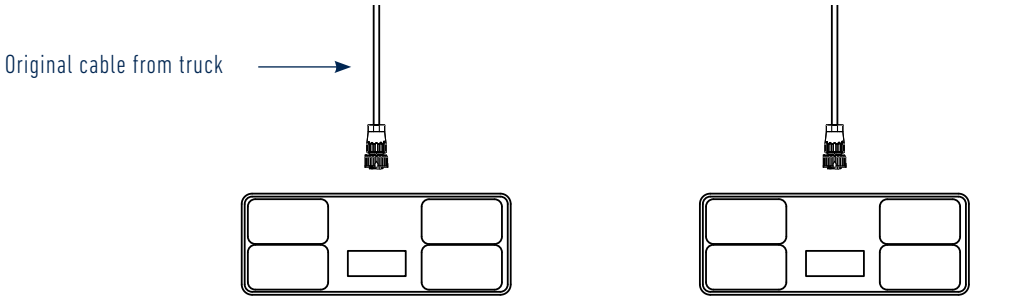
- Is possible by applying Y-adapter 894 005 230 or by applying both the Y-adapter and extension cable (as shown on above drawing). The alternativ could be the extension cable with Super Seal plug 794 020 230 or 694 030 200 as shown below. More lenghts are available.



Part numbers from original manufactures are for reference purpose only and may not be used in offers or other material

SCANIA - Plug & Play solution TM10 LED tail light

STANDARD upgrading kit with TM10 tail light 6-function — **Article no. TM091050015**

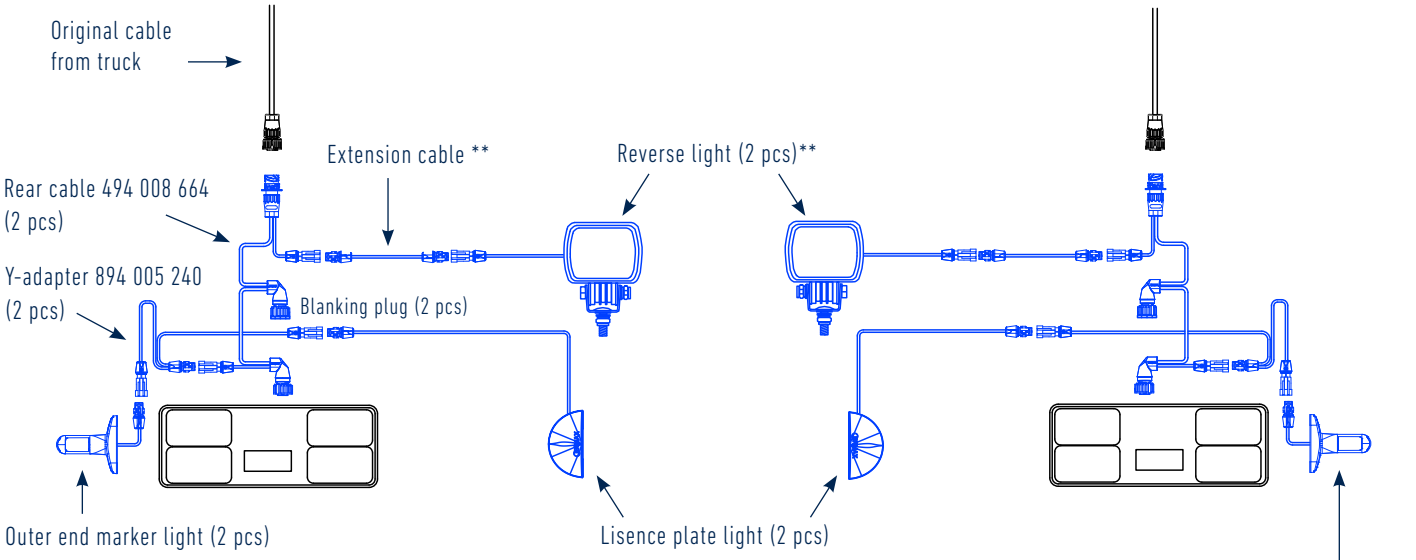


TM10 tail light
(without integrated license plate light)
098 216 509 (1 pcs)

TM10 tail light
(without integrated license plate light)
098 216 508 (1 pcs)

Complete lighting system Standard TM091050015 with various options - without reverse gear alarm

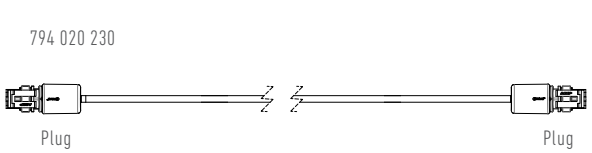
Components marked with blue on below drawing are possible options in relation to the standard kit TM091050015 as shown above.

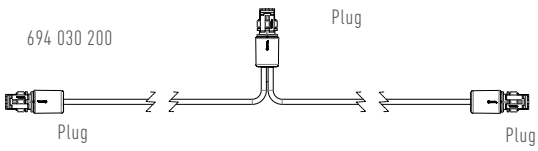


OBS - The outer end marker can also be delivered with an open end cable - which makes it possible to connect the outer end marker in the TM10 tail light

OBS** Connection of reverse lights to rear cable 494 012 664

- is possible by applying the Y-adapter 894 005 230 (as shown on above drawing) or by applying the extension cable with Super Seal plug 794 020 230 or 694 030 200 as shown below. More lengths are available.

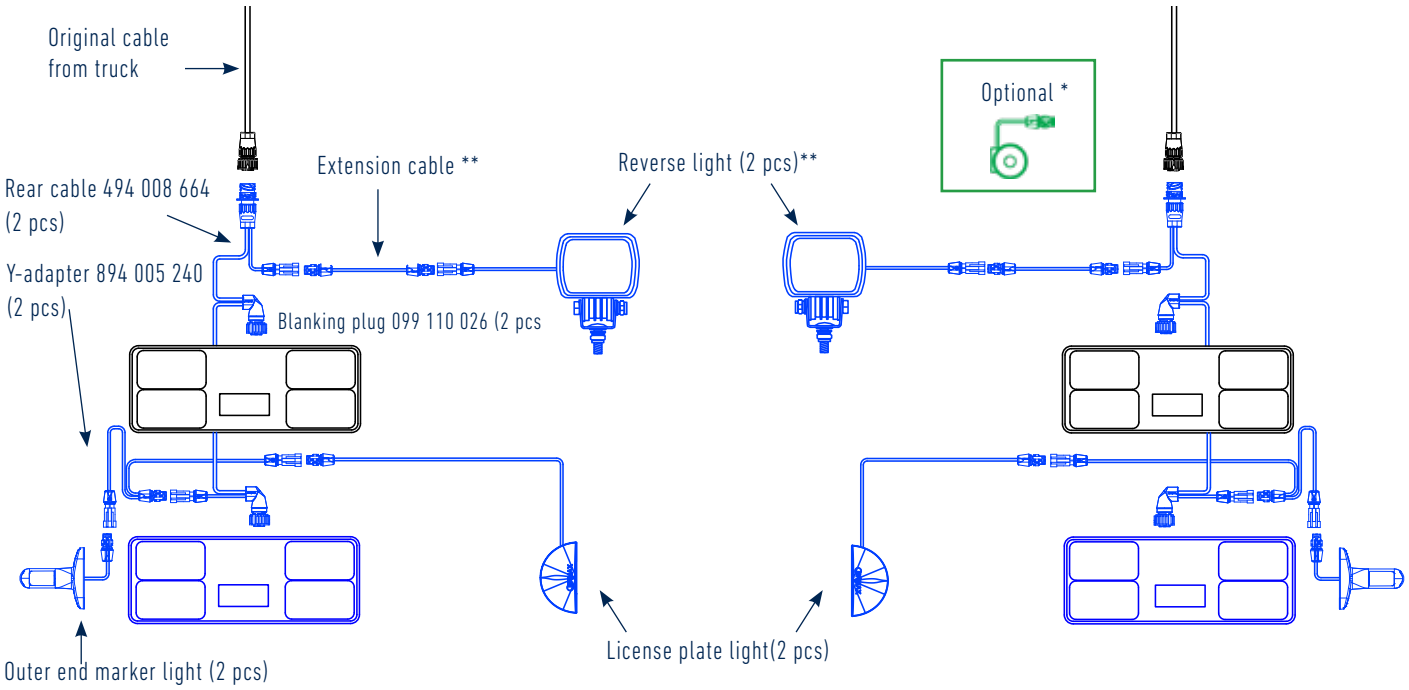




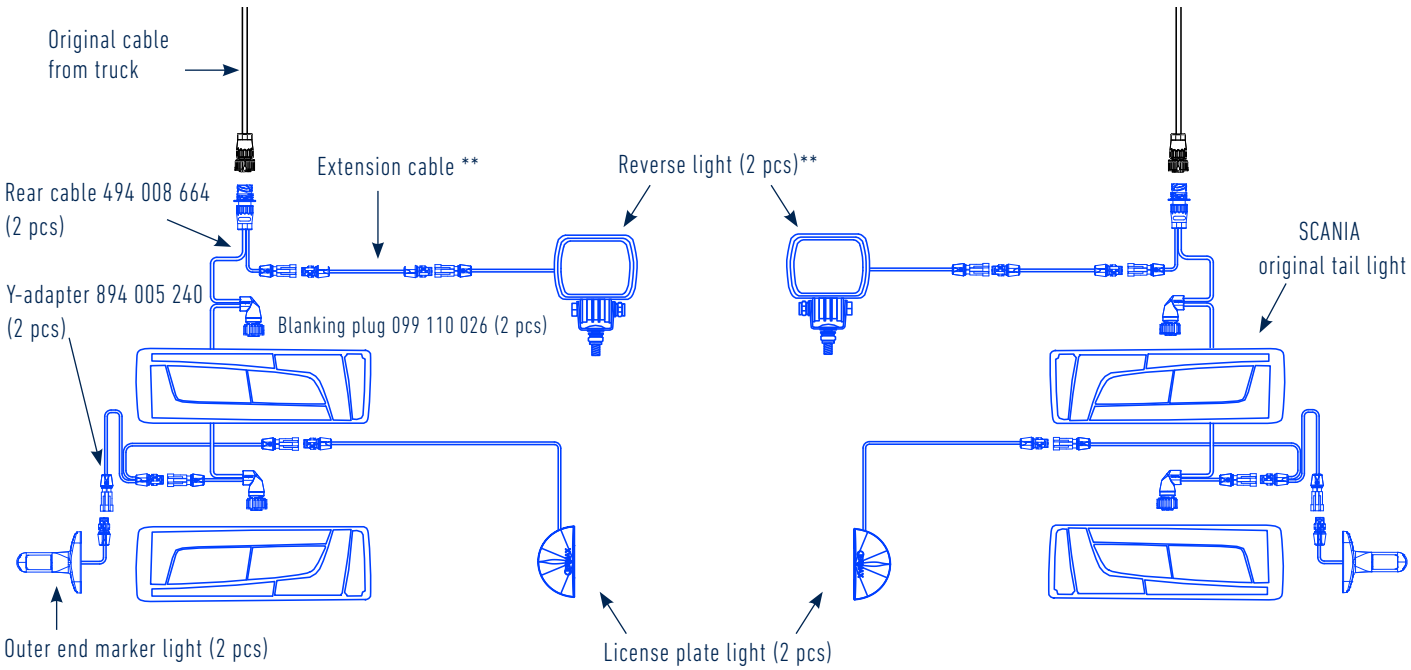
Double lighting installation with TM10 tail lights - alternatively original SCANIA tail lights with various options of lighting functions

Reverse gear alarm *

Rear cable 494 012 667 should be mounted in the right side of the vehicle, where to the reverse gear alarm should be connected, if it is required to control and mute the reverse alarm from the truck. The third lighting connection should be blinded with blanking plug 099 110 026



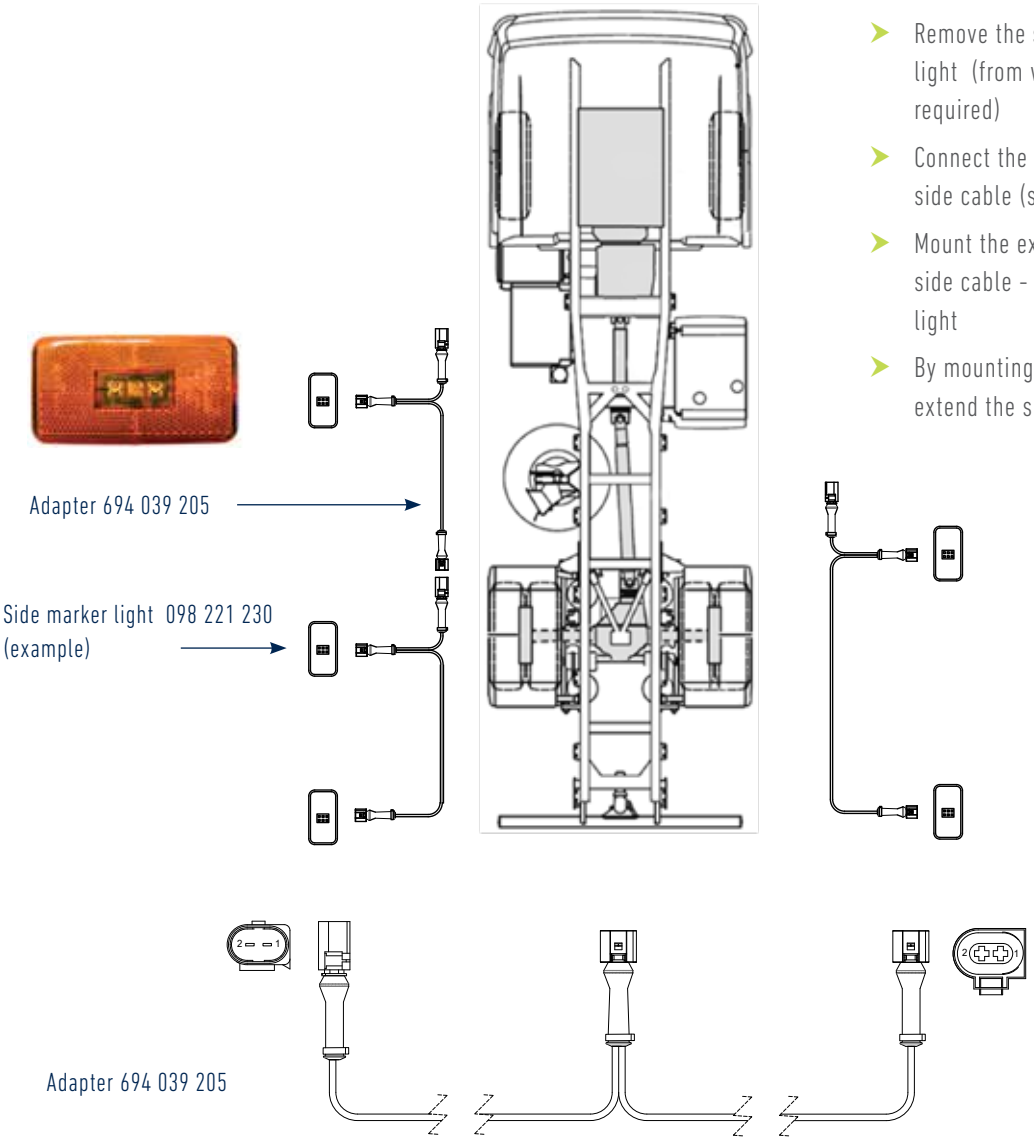
Double lighting installation with original SCANIA tail lights



Plug & Play installation of additional side marker light

It is possible to install additional side marker lights (orginals) with the ERMAX side cable adapter with MCP2 plug

- Easy and simple, also for retrofittings



- Remove the side cable from the existing side marker light (from where the extension of the side cable is required)
- Connect the ERMAX side cable adapter to the existing side cable (socket)
- Mount the existing side marker light onto the new side cable - and connect then the new side marker light
- By mounting additonal side cables, it is possible to extend the side cable further

Side cable – Adapter
SCANIA

Connection:	3900 mm -1 x inlet with MCP2 socket 2 x outlet with MCP2 plug
Distance between plugs:	1 x 200 mm + 1 x 3.700 mm
Conductor cross-section:	2 x 0,5 mm²
Cable type	FLRYY / PVC
Approval	ADR
Article no.	**694 039 205**

Pin configuration - 2 poled Super Seal plug		
Position	Color	Function
1	Brown	Ground (–)
2	Blue	Position

Lighting options for lighting systems with TM5 and TM10 tail lights

Outer end marker light LED

Long or short model
300 mm cable with Super Seal plug

Article no.	
098 241 448 (RH) 098 241 449 (LH)	098 241 218 (RH/LH)

License plate light LED

Half-round or square model
1200 mm cable with Super Seal plug

Article no.	
098 254 335	098 254 345

Reverse light LED

300 mm cable with Super Seal socket **
Approved as reverse light with 30^0 or 35^0 angling by vertical mounting *

Article no.		
098 256 255 Lumen: 650 / 300	098 174 265 Lumen: 1.600 / 1.200 * 30^0 angling	098 174 275 Lumen: 2.400 / 1.800 * 35^0 angling

Reverse gear alarm

250 mm cable with
Super Seal plug

Article no.
090 450 350

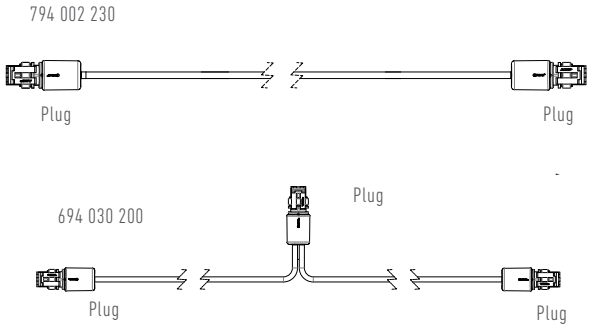
TM10 Tail light LED

License plate light integrated in
the bottom of the tail light

Article no.
098 216 511 (LH) 098 216 510 (RH)

** Connection of reverse lights to rear cable 494 012 664

- Is possible by applying the Y-adapter 894 005 230 or extension cable with Super Seal plug 794 002 230 or 694 030 200 as shown below. More lengths are available.



Side marker light SCANIA

Side marker light LED 24V

Scania R/5

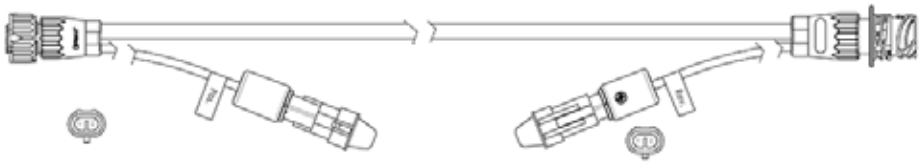
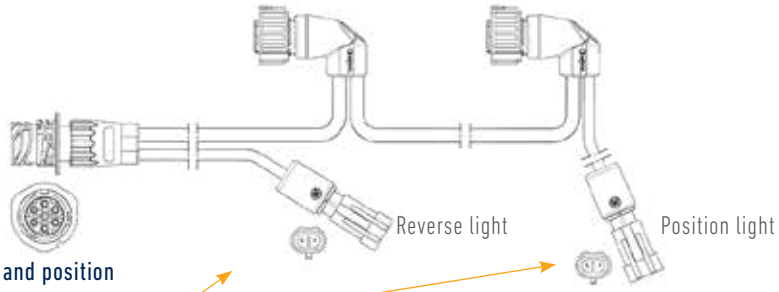
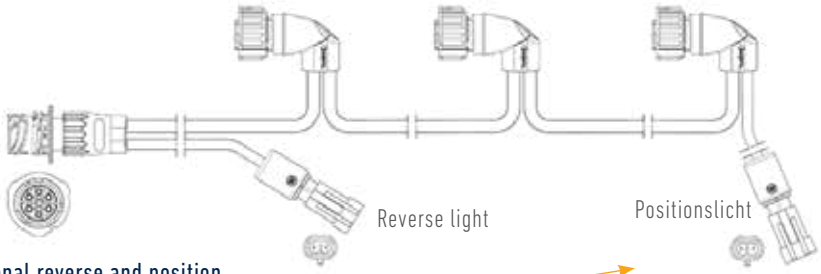
Description:	Orange, plastic housing with 3 LEDs and reflector
Surface mounting:	Horizontal / vertical
Connection:	2.050 mm cable with 2 poled AMP plug
Dimension:	110 x 55 mm
Approval:	ECE, EMC, IP67
Suitable for:	0 173 74 13 0 144 38 84 0 144 6359 2 000 390 2 052 119 2 080 828
Article no.	**098 221 230**

Sidemarkeringslygter LED 24V

Scania 4

Description:	Orange, plastic housing with 4 LEDs and metal clips
Built-in:	Horizontal - mounting depth 35 mm
Connection:	2.050 mm cable with open end
Dimension:	104 x 54 mm
Approval:	ECE, EMC, IP67
Suitable for:	1471599
Article no.	**098 221 245**

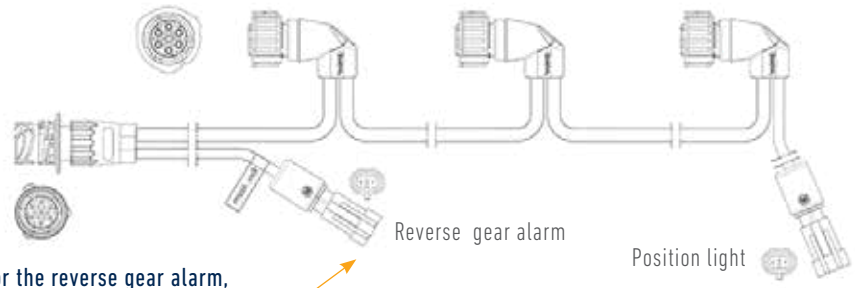
Rear cable

	Anwendung / Beschreibung	Artikelnr.
	Rear cable adapter, 7 core, 300mm 7-pin AMP socket > plug. 2 x 2-pin Super Seal sockets with position light and r eversing light. Conductor cross section : 7x1,0 mm^2 / 2x0,5mm^2. 2 x 2-pin Super Seal sockets with blinds. Cable type : FLRYY. 	394 003 002
	Rear cable 6 core - single, chain AMP 1,5 socket, straight > 3 x AMP 1,5 plug, angled Conductor cross-section: 6x1 mm^2 / 2x1 mm^2 Cable type: FLRYY / PVC **6 core 1.200 mm** With 2 x 2 poled outlet with Super Seal for position light and reverse light  Easy to connect additional reverse and position lights with 2 poled Super Seal outlets	494 008 664
	Rear cable 6 core - single, chain AMP 1,5 socket, straight > 3 x AMP 1,5 plug, angled Conductor cross-section: 6x1 mm^2 / 2x1 mm^2 Cable type: FLRYY / PVC **6 core 1.200 mm** With 2 x 2 poled outlet with Super Seal for position light and reverse light  Easy to connect additional reverse and position lights with 2 poled Super Seal outlets	494 012 666

Part numbers from original manufactures are for reference purpose only and may not be used in offers or other material

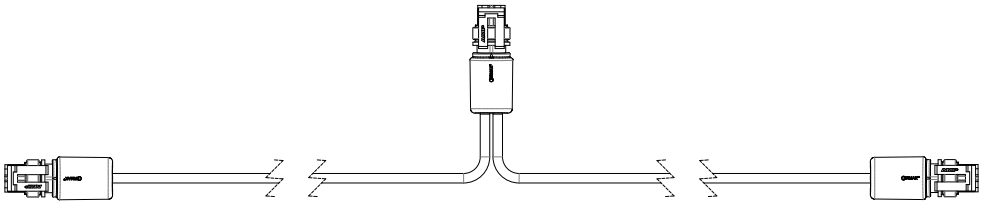
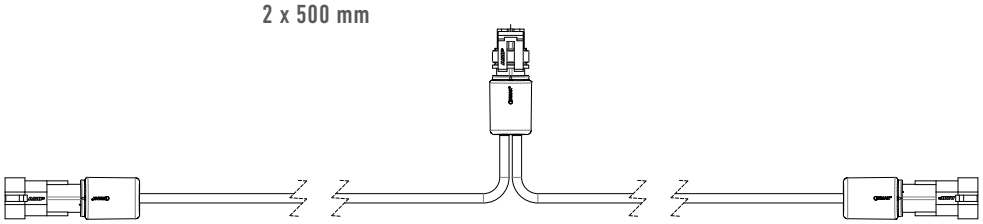
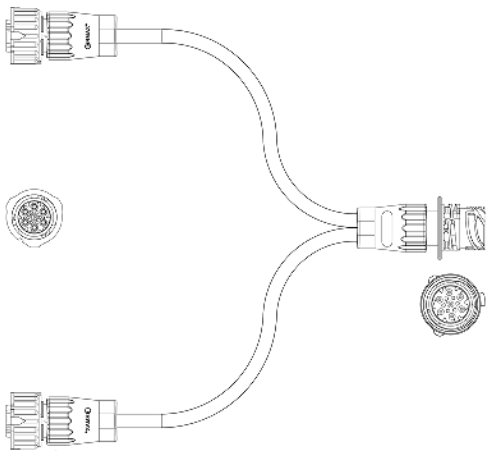
Rear cable

	Application / Description	Article no.
	6 core 1.200 mm With 2 x 2 poled outlet with Super Seal for position light and reverse gear alarm OBS. Pin no. 7 in the 7 poled AMP plug, is for the reverse gear alarm	494 012 668



Possibility for outlet for the reverse gear alarm, which can be disconnected manually from the truck

Y-adapter cable

Application / Description	Article no.
Y-adapter cable, 2 core 3 x Super Seal plug Conductor cross-section: 2x1 mm² Cable type: FLRYY / PVC **2 x 500 mm** **2 x 2.000 mm**	894 005 230 894 020 230
	
Y-adapter cable, 2 core 1 x Super Seal plug + 2 x Super Seal socket Conductor cross-section: 2x1 mm² Cable type: FLRYY / PVC **2 x 500 mm**	894 005 240
	
Y-adapter cable 7 core, 2 x 300 mm 2 x 7-poled AMP plug > 1 x 7-poled AMP 1,5 socket Conductor cross section: 7x1 mm² Cable type: FLRYY / PVC	894 003 740
	

Plug & Play solutions for VOLVO

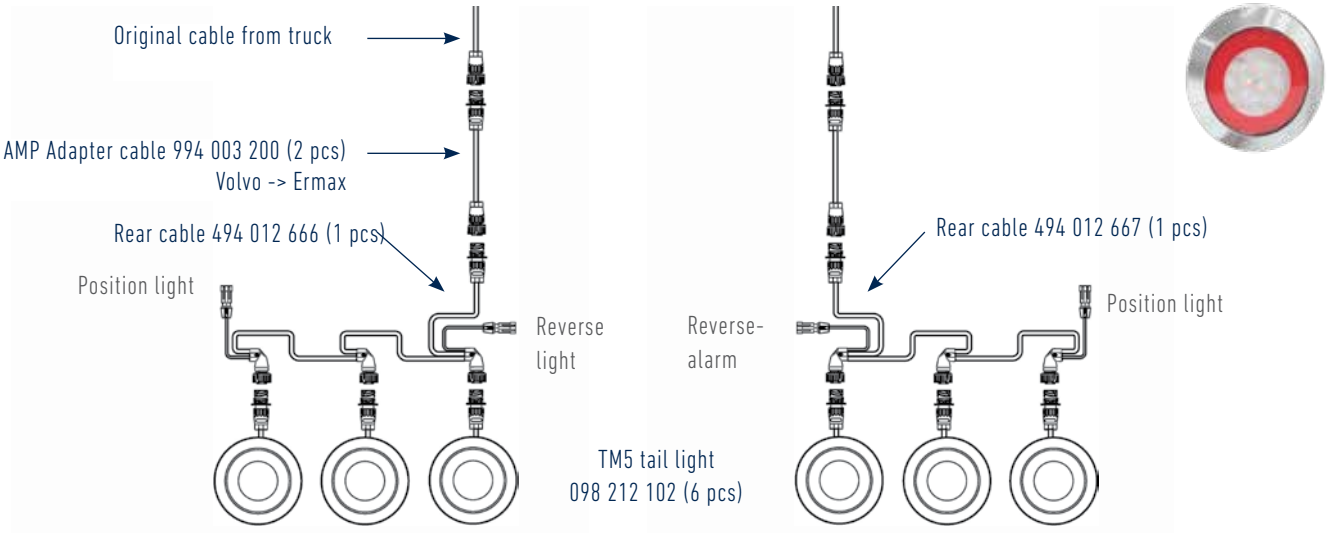
ERMAX®

VOLVO - Plug & Play solution TM5 LED tail light

A complete upgrading kit from ERMAX with LED tail lights and time-saving mounting - directly integrated on the vehicle

A pre-assembled cable set enables a direct plug & play mounting of plug, cables and ERMAX Eternal Light® tail lights (TM5, TM10 and TM11) – a solution with opportunity for flexible connections of e.g. position lights, reverse light and reverse gear alarm, all without opening the exsisting wiring on the truck. In addition to this high quality solution, a significant time saving on the vehicle is achieved by using this plug & play solution.

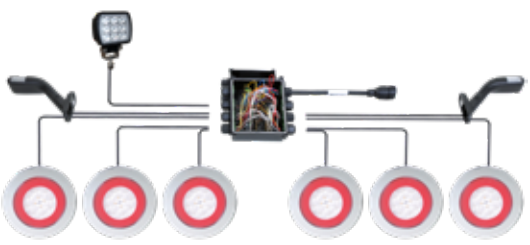
STANDARD upgrading kit with TM5 tail light 3-function — **Article no. TM091050020**



OBS - It is possible to disconnect the reverse gear alarm from the truck, if rear cable 494 016 667 is installed in connection with the external reverse gear alarm.

ERMAX Plug & Play upgrading kit with many advantages and opportunities

- Time-saving up to 8 hours
  - plug & play installation of plugs, cables and lights
  - Junction box with Super Seal sockets or cable glands for all lighting fuctions
- Secure and documentable installation
- No change of liability in warranty obligations, as existing wiring will not be opened
- Easy to replace damaged parts
- All fuctions are accessible with either Super Seal sockets or cable glands
- The Standard upgrading kits are packed individually in a box - Simple and effective



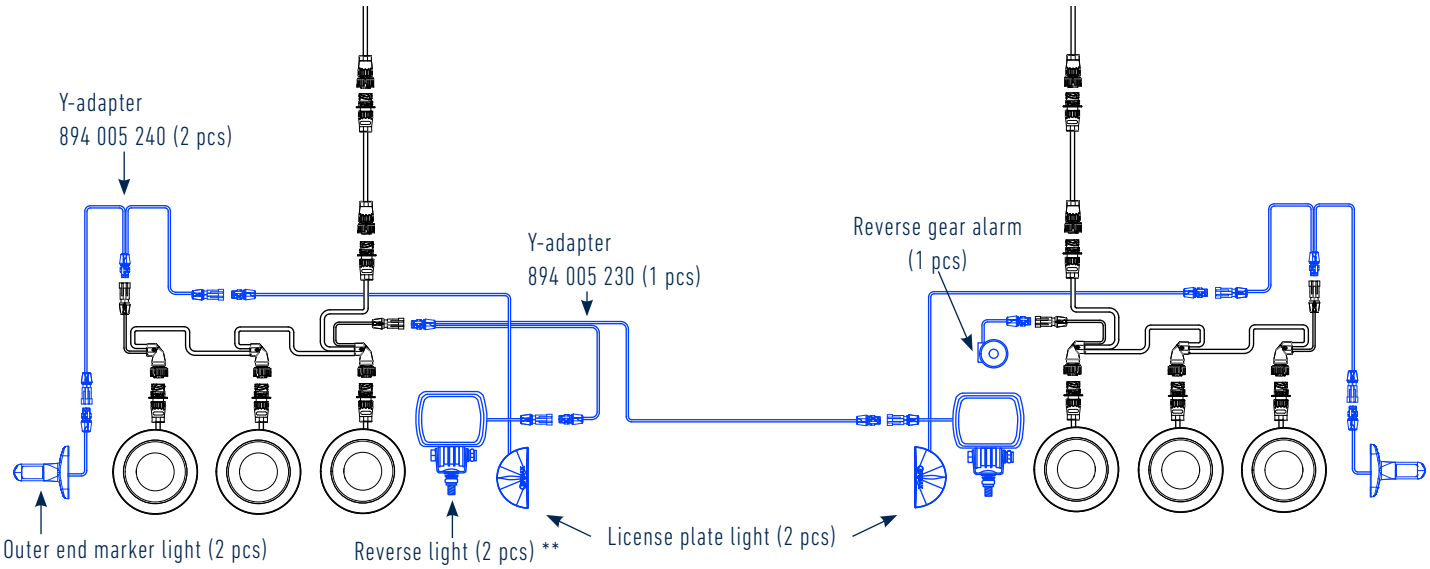
Time demanding installation with juction box and open end solution

Plug & Play mounting - Time-saving

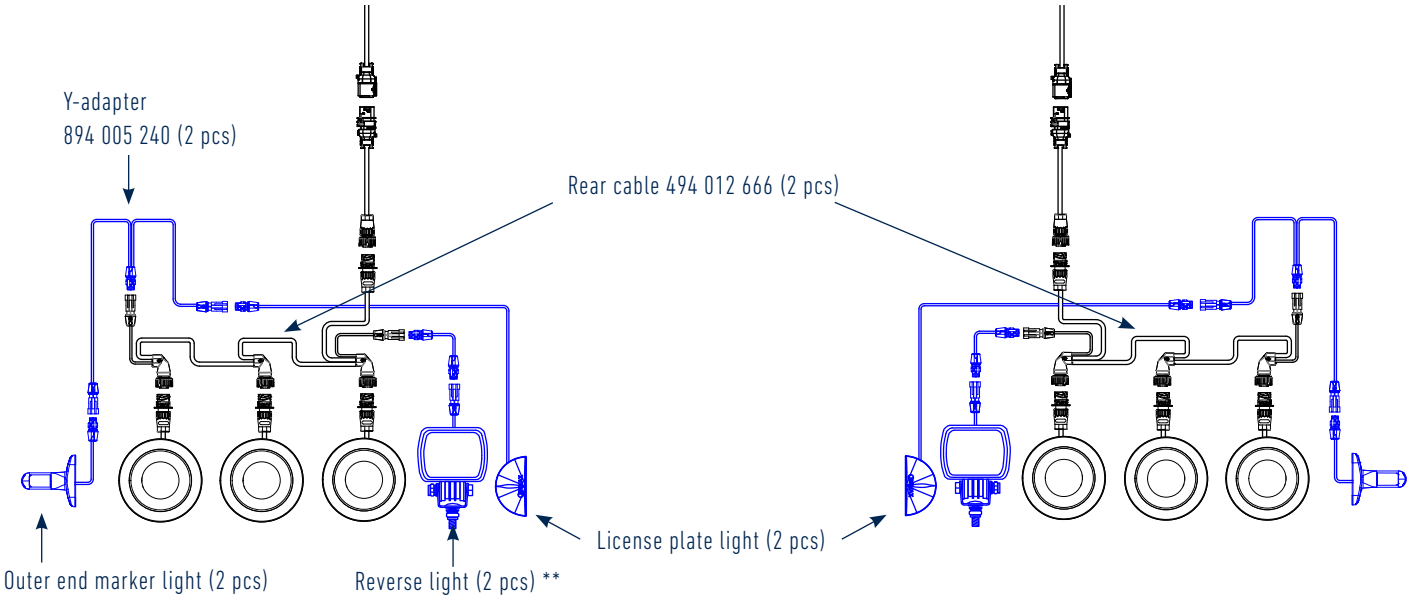
Drawing of complete lighting system with various options of functions

- Option to integrate more lighting functions if needed
- Outlet for reverse light and/or reverse gear alarm from the rear cable
- Easy and time-saving mounting, also for retrofitting

Components marked with blue on below drawing are possible options in relation to the standard kit TM091050020 shown on previous page.

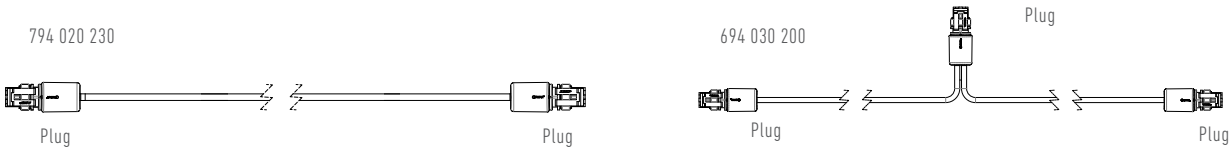


Drawing of rear cable 494 012 666 with outlet for reverse light, mounted on both sides of the vehicle (without reverse gear alarm)



OBS** Connection of reverse lights to rear cable 494 012 666

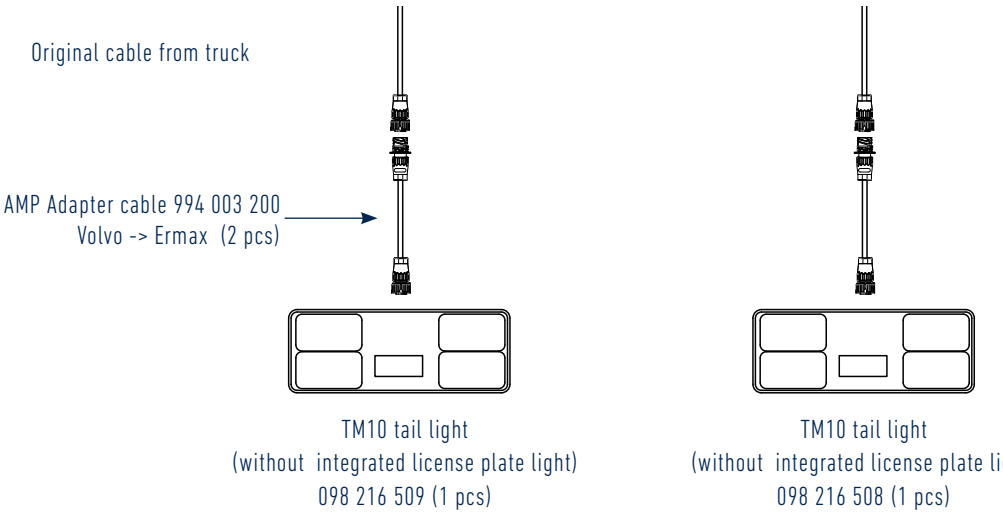
- Is possible by applying Y-adapter 894 005 230 or by applying both the Y-adapter and extension cable (as shown on above drawing). The alternativ could be the extension cable with Super Seal plug 794 020 230 or 694 030 200 as shown below. More lenghts are available.



Part numbers from original manufactures are for reference purpose only and may not be used in offers or other material

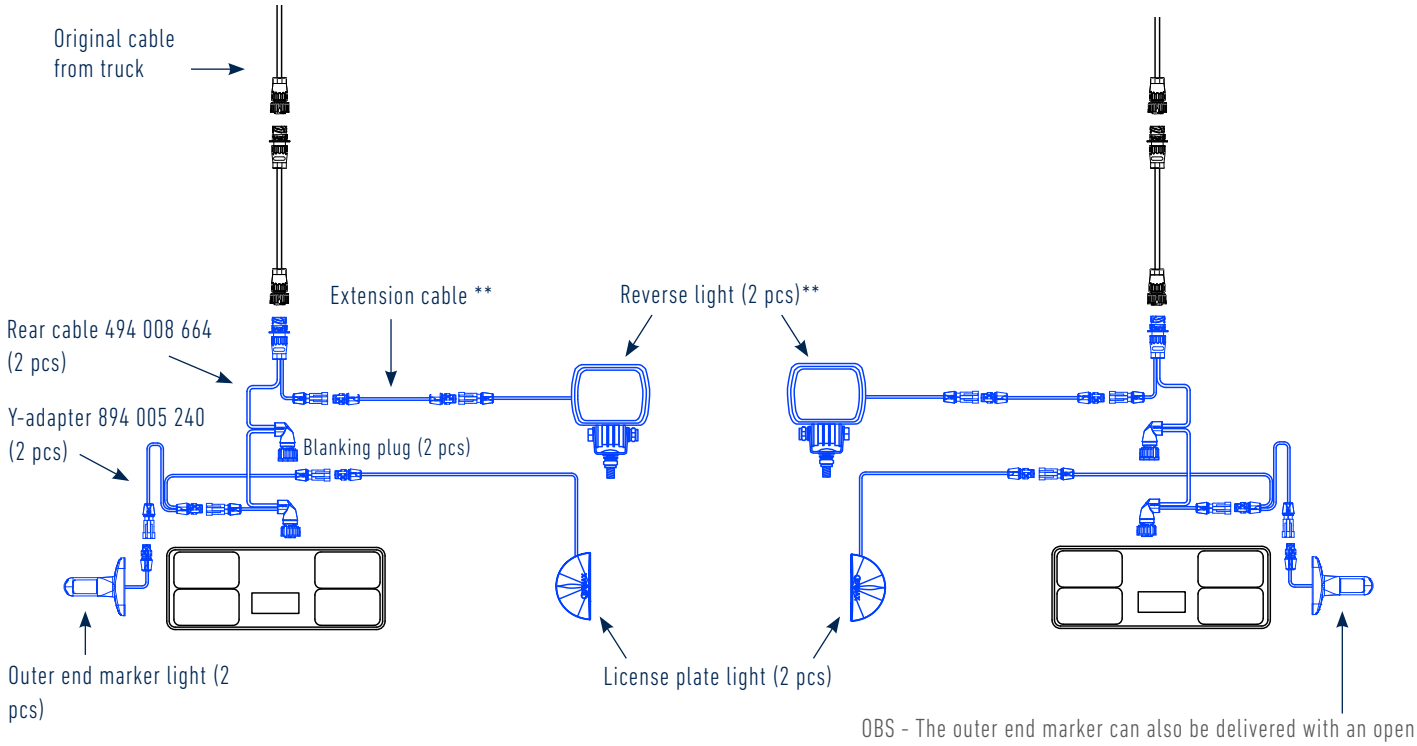
VOLVO- Plug & Play solution TM10 LED tail light

STANDARD upgrading kit with TM10 tail light 6-function — **Article no. TM091050025**



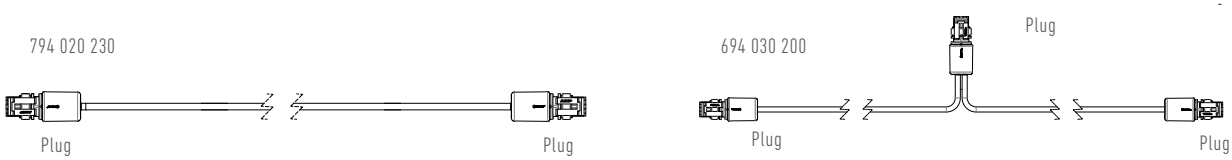
Complete lighting system Standard TM091050025 with various options - without reverse gear alarm

Components marked with blue on below drawing are possible options in relation to the standard kit TM091050025 as shown above.



OBS** Connection of reverse lights to rear cable 494 012 664

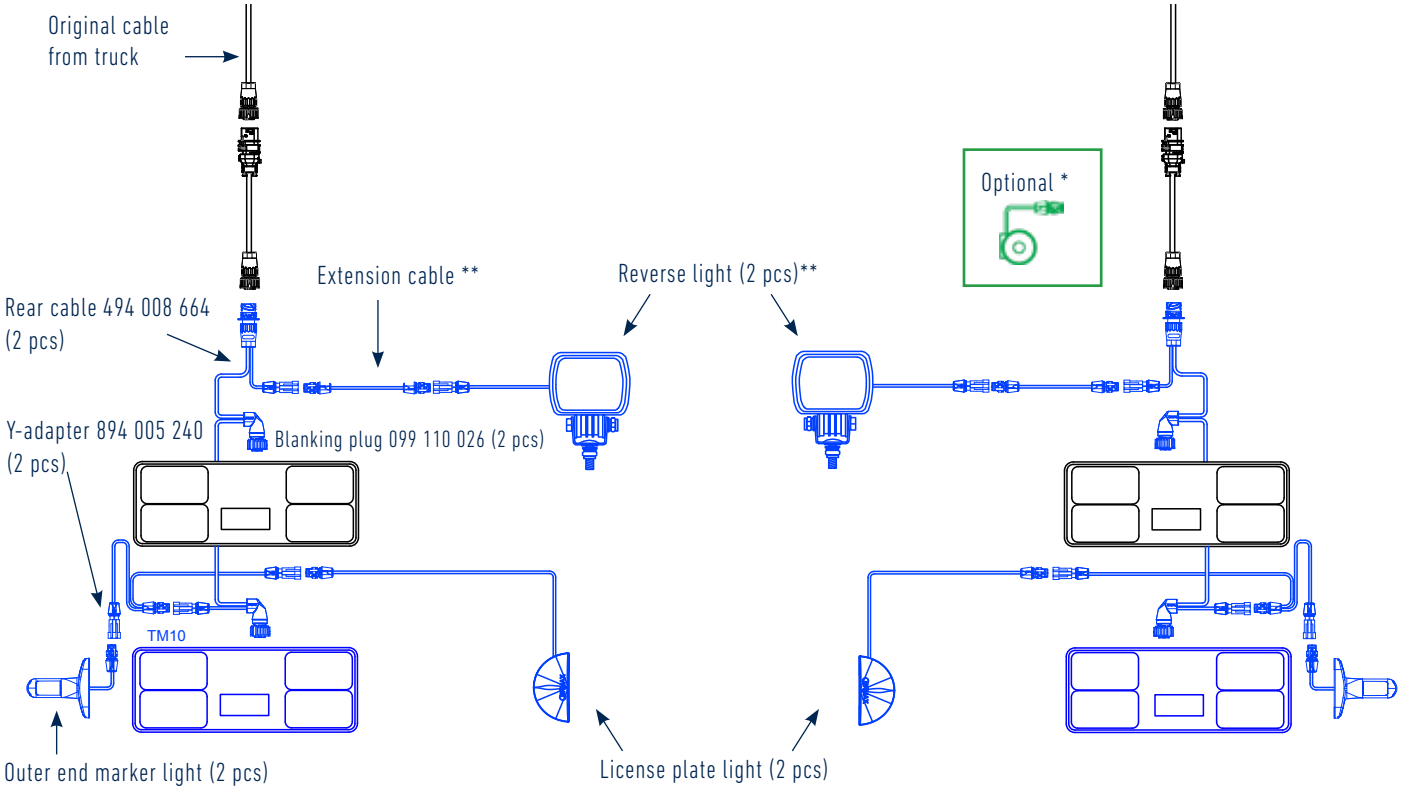
- is possible by applying the Y-adapter 894 005 230 (as shown on above drawing) or by applying the extension cable with Super Seal plug 794 020 230 or 694 030 200 as shown below. More lengths are available.



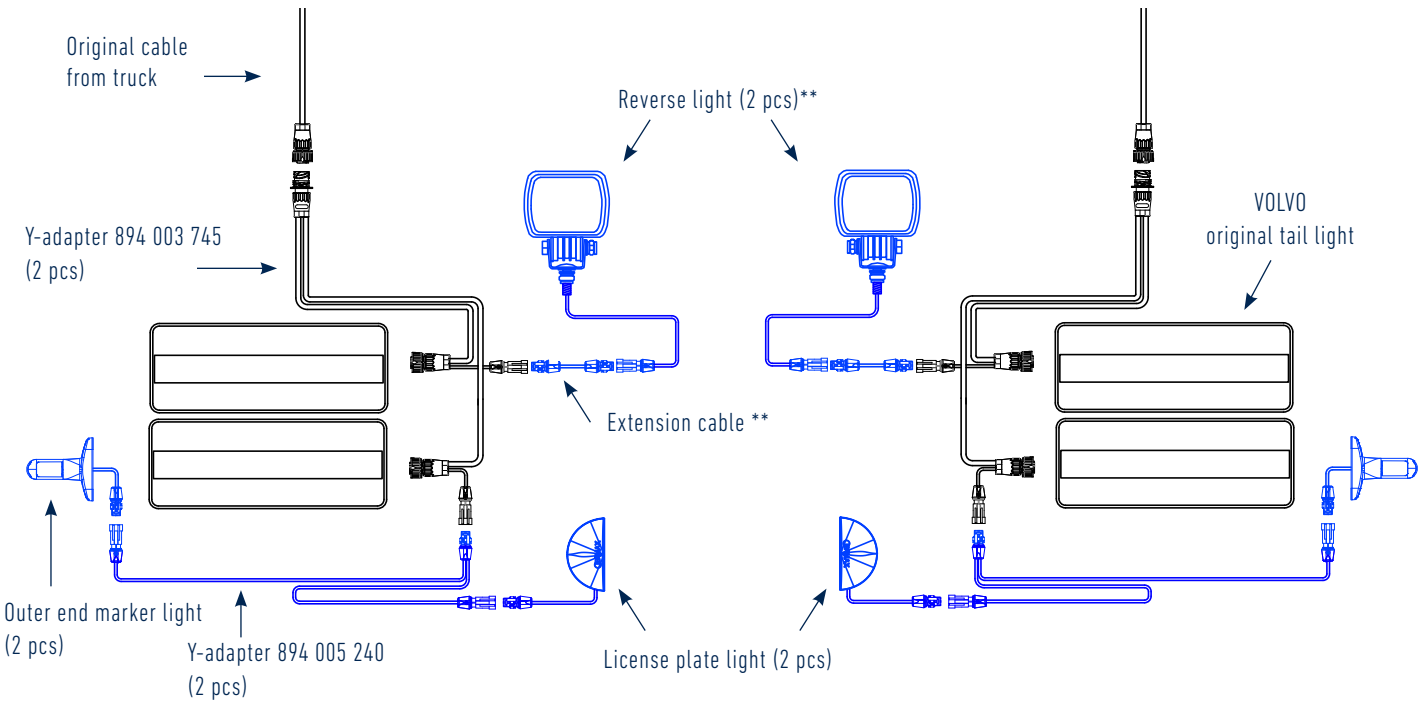
Double lighting installation with TM10 tail lights - alternatively original VOLVO tail lights with various options of lighting functions

Reverse gear alarm *

Rear cable 494 012 667 should be mounted in the right side of the vehicle, where to the reverse gear alarm should be connected, if it is required to control and mute the reverse alarm from the truck. The third lighting connection should be blinded with blanking plug 099 110 026



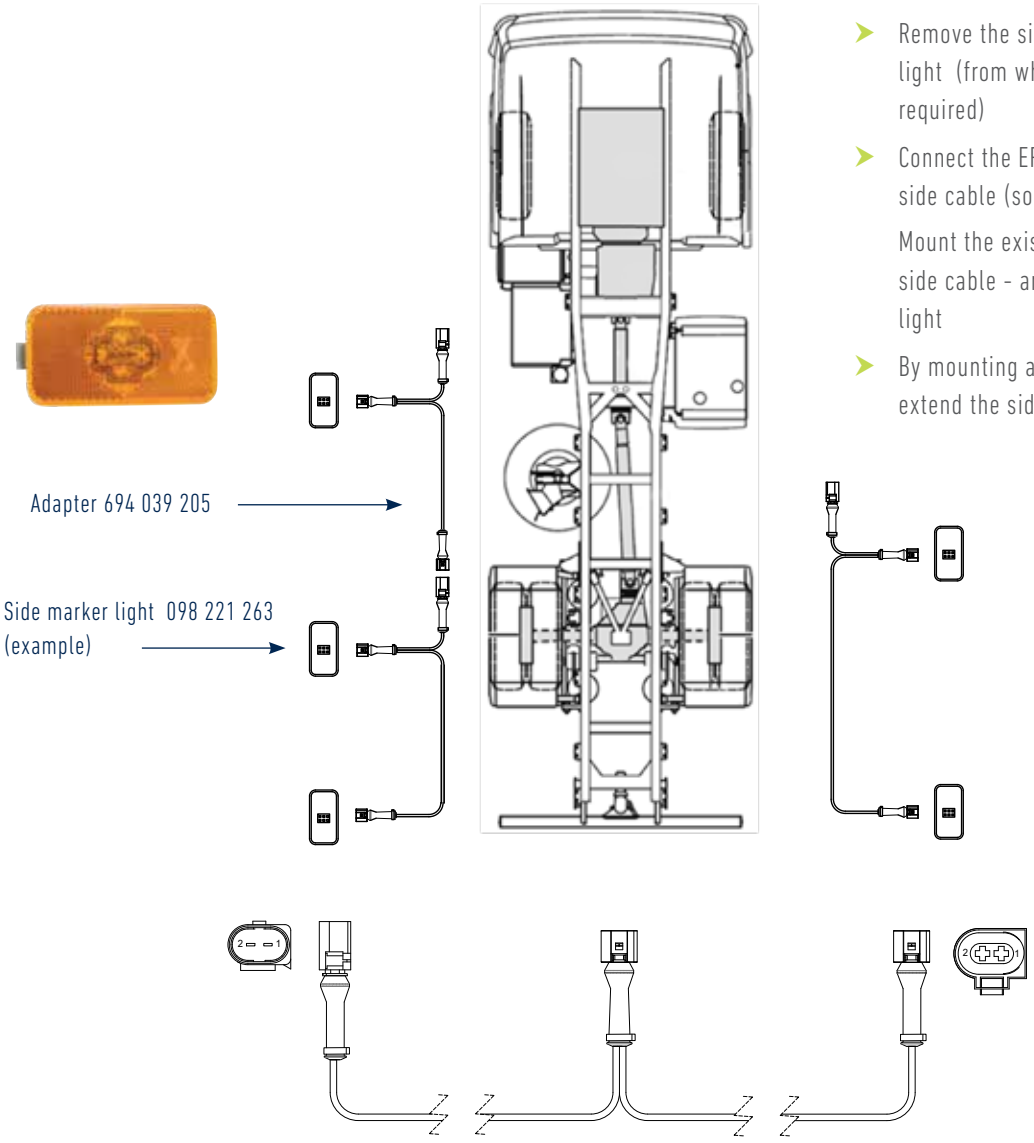
Double lighting installation with original VOLVO tail lights



Part numbers from original manufactures are for reference purpose only and may not be used in offers or other material

Plug & Play installation of additional side marker light

It is possible to install additional side marker lights (orginals) with the ERMAX side cable adapter with MCP2 plug
- Easy and simple, also for retrofittings



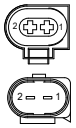
- Remove the side cable from the existing side marker light (from where the extension of the side cable is required)
- Connect the ERMAX side cable adapter to the existing side cable (socket)

  Mount the existing side marker light onto the new side cable - and connect then the new side marker light
- By mounting additonal side cables, it is possible to extend the side cable further

Side cable - Adapter

VOLVO

Connection:	3900 mm -1 x inlet with MCP2 socket 2 x outlet with MCP2 plug
Distance between plug:	1 x 200 mm + 1 x 3.700 mm
Conductor cross-section:	2 x 0,5 mm²
Cable type:	FLRYY / PVC
Approval:	ADR
Article no.	**694 039 205**



Pin configuration - 2 poled Super Seal plug		
Position	Color	Function
1	Brown	Ground (–)
2	Blue	Position

Lighting options for lighting systems with TM5 and TM10 tail lights

Outer end marker light LED

Long or short model
300 mm cable with Super Seal plug

Article no.	
098 241 448 (RH) 098 241 449 (LHV)	098 241 218 (RH/LH)

License plate light LED

Half-round or square model
1200 mm cable with Super Seal plug

Article no.	
098 254 335	098 254 345

Reverse light LED

300 mm cable with Super Seal socket **
Approved as reverse light with 30^0 or 35^0 angling by vertical mounting *

Article no.		
098 256 255 Lumen: 650 / 300	098 174 265 Lumen: 1.600 / 1.200 * 30^0 angling	098 174 275 Lumen: 2.400 / 1.800 * 35^0 angling

Reverse gear alarm

250 mm cable with
Super Seal plug

Article no.
090 450 350

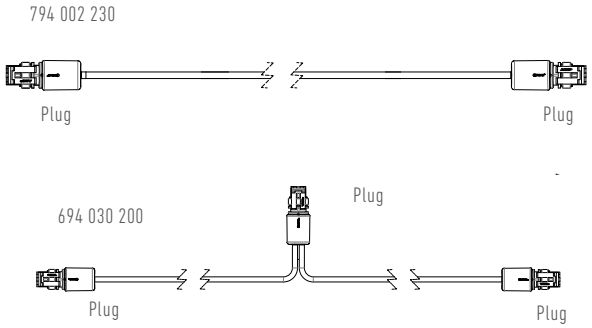
TM10 Tail light LED

License plate light integrated in
the bottom of the trail light

Article no.
098 216 511 (LH)
098 216 510 (RH)

** Connection of reverse lights to rear cable 494 012 664

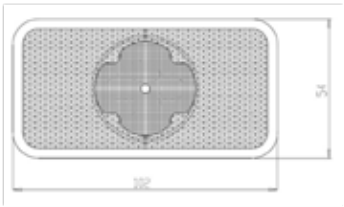
- Is possible by applying the Y-adapter 894 005 230 or extension cable with Super Seal plug 794 002 230 or 694 030 200 as shown below. More lengths are available.



Side marker light VOLVO

Side marker light LED 24V

VOLVO



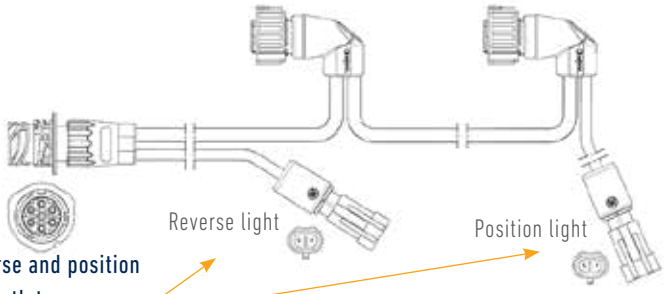
Description:	Orange, plastic housing with 3 LEDs - without reflex reflector
Surface mounting:	Horizontal / vertical - mounting depth 35 mm
Connection:	Integrated 2 poled AMP plug
Dimension:	104 x 54 mm
Approval:	ECE, IP67
Suitable for:	20398660
Article no.	**098 221 263**

Rear cable adapter

	Application / Description	Article no.
	Rear cable adapter for Volvo, 7 core, 300mm 7-pin AMP socket > plug. 2 x 2-pin Super Seal sockets with position light and reversing light. Conductor cross section : 7x1,0 mm^2 / 2x0,5mm^2. 2 x 2-pin Super Seal sockets with blinds. Connections for position light (Pin 4) and reversing light (Pin 5) with Volvo pin-configuration. Cable type : FLRYY.	394 003 003

Rear cable

	Application / Description	Article no.
	Rear cable 6 core - single, chain AMP 1,5 socket, straight > 2 x AMP 1,5 plug, angled Conductor cross-section: 6x1 mm² / 2x1 mm² Cable type: FLRYY / PVC	
	6 core 800 mm With 2 x 2 poled outlet with Super Seal for position light and reverse light	494 008 664

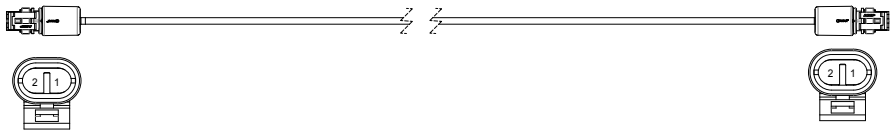


	Rear cable 6-core - single, chain AMP 1,5 socket, straight > 3 x AMP 1,5 plug, angled Conductor cross-section: 6x1 mm² / 2x1 mm² Cable type: FLRYY / PVC	
	6 core 1.200 mm With 2 x 2 poled outlet with Super Seal for position light and reverse light	494 012 666

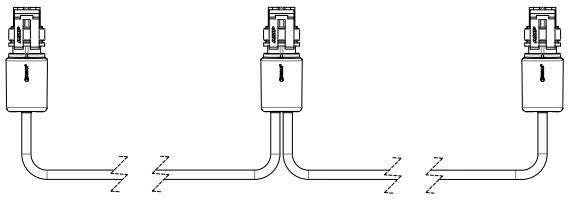
	6 core 1.200 mm With 2 x 2 poled outlet with Super Seal for position light and reverse alarm OBS: Pin no. 7 in the 7 poled AMP plug is for the reverse gear alarm	494 012 667

Extension cable (For additional lenghts - see section " cables universal")

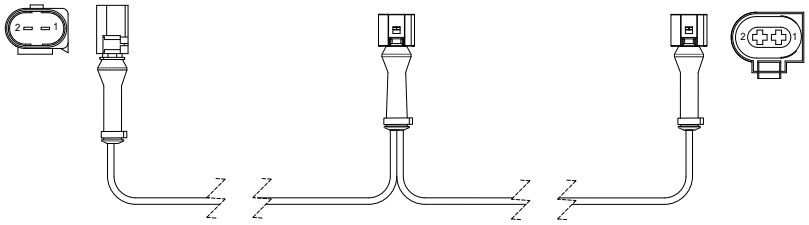
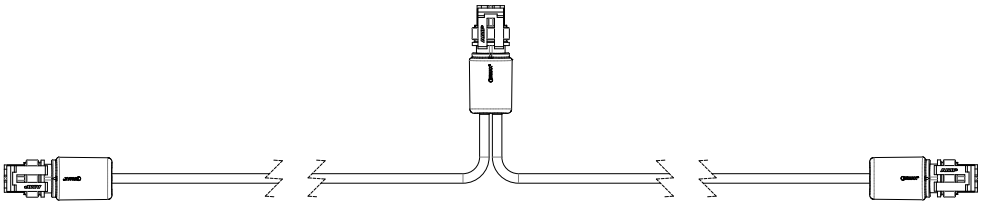
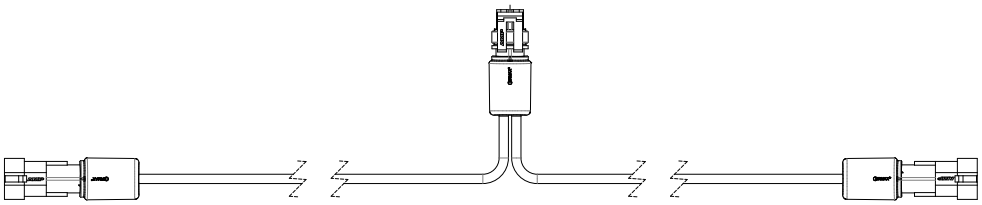
	Application / Description	Article no.
	Extension cable, 2 core Super Seal plug > Super Seal plug Conductor cross-section: 2x1 mm² Cable type: FLRYY / PVC	
	200 mm	794 002 230
	500 mm	794 005 230
	1.000 mm	794 010 230
	1.500 mm	794 015 230



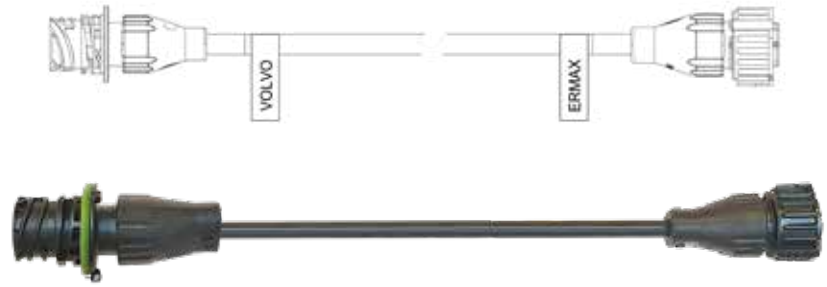
	Application / Description	Article no.
	Extension cable, 2 core -chain 1 inlet + 2 outlets with Super Seal plug Conductor cross-section: 2x0,5 mm² Cable type: FLRYY / PVC	
	3.000 mm Distance between plugs: 1x1.700 mm + 1x1.300 mm	694 030 200
	4.200 mm Distance between plugs: 1x1.200 mm + 1x3.000 mm	694 042 200
	5.300 mm Distance between plugs: 1x300 mm + 1x5.000 mm	694 053 200



Side cable VOLVO / Y-adapter cable (Universal)

	Application / Description	Article no.
	Side cable, 2 core – chain (Volvo) For extension of original cable for side marker lights 1 x inlet with MCP2 socket 2 x outlet with MCP2 plug Conductor cross-section: 2x0,5 mm² Cable type: FLRYY / PVC	
	3.900 mm Distance between plugs: 1 x 200 mm + 1 x 3.700 mm	694 039 205
		
	Y-adapter cable, 2 core 3 x Super Seal plug Conductor cross-section: 2x1 mm² Cable type: FLRYY / PVC	
	2 x 500 mm	894 005 230
	2 x 2.000 mm	894 020 230
		
	Y-adapter cable, 2 core 1 x Super Seal plug + 2 x Super Seal socket Conductor cross-section: 2x1 mm² Cable type: FLRYY / PVC	
	2 x 500 mm	894 005 240
		

Adapter cable - VOLVO

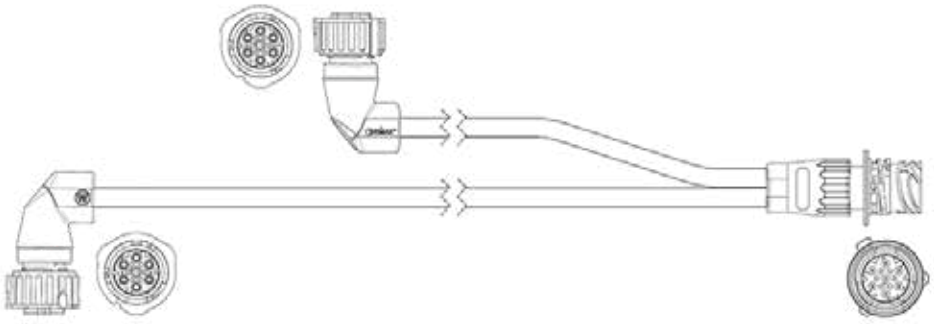
	Application / Description	Article no.
Volvo connection : 1 : Ground 2 : Dir. indicator 3 : Stop 4 : Position 5 : Reverse 6 : Rear fog 7 : = 7 in ERMAX	**Adapter cable, 7 core - for connection af Ermax tail lights** 7 poled AMP plug (Ermax) <> 7 poled AMP socket (Volvo) Conductor cross-section: 7x1 mm^2 Cable type: FLRYY / PVC **300 mm** 	994 003 200
	Y-adapter cable, 7 core 2x2 poled outlet (200 mm) with Super Seal socket for position and reverse light. Conductor cross-section: 7x1,0 mm^2 / 2 x 1,0 mm^2. Cable type: FLRYY / PVC **2 x 300 mm** For connection af an additional tail light on the Volvo truck. 	894 003 745

Easy to connect additional tail lights by applying the plug & play adapter cable

OBS: The 7 core rear cable makes it possible to manually disconnect the reverse alarm from the truck

Adapter cable - VOLVO

	Application / Description	Article no.
	Y-adapter cable, 7 core 6 core 3700 mm cable with 7-poled AMP plug > 7 poled AMP socket > 900 mm cable with 7-poled AMP plug Conductor cross-section: 6 x 1,0 mm^2 og 7 x 1,0 mm^2 Cable type: FLRYY / PVC	
	3.700 mm (Suitable for 21781011)	894 037 744



OBS: **Easy to connect additional tail lights** by applying the plug & play adapter cable

Plug & Play solutions for RENAULT

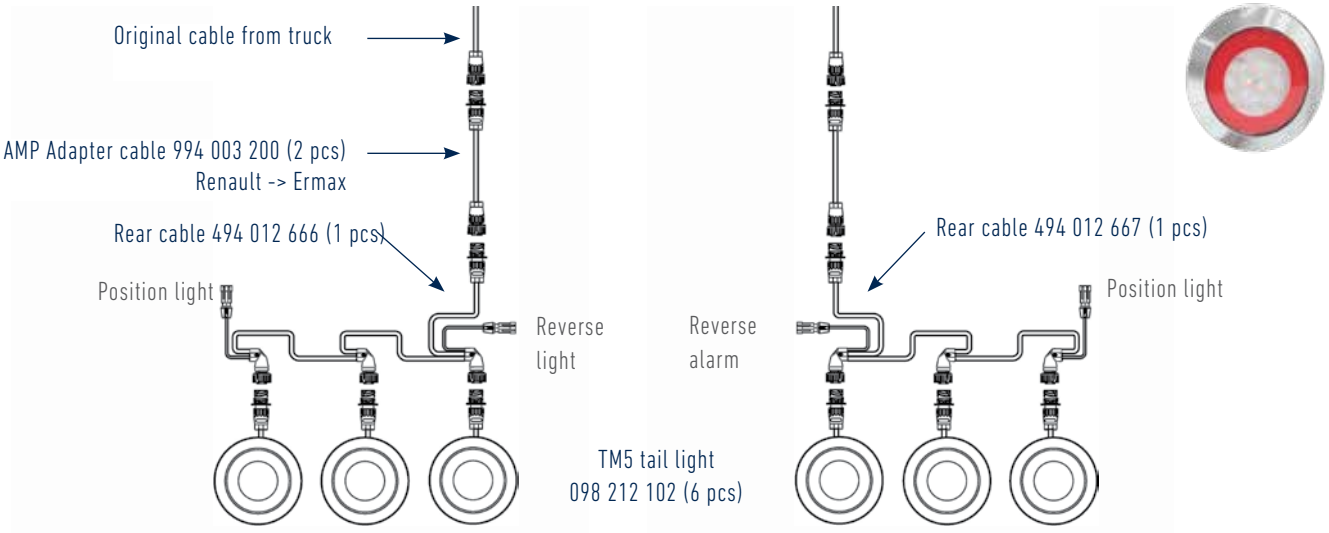
ERMAX®

RENAULT - Plug & Play solution TM5 LED tail light

A complete upgrading kit from ERMAX with LED tail lights and time-saving mounting - directly integrated on the vehicle

A pre-assembled cable set enables a direct plug & play mounting of plug, cables and ERMAX Eternal Light® tail lights (TM5, TM10 and TM11) – a solution with opportunity for flexible connections of e.g. position lights, reverse light and reverse gear alarm, all without opening the exsisting wiring on the truck. In addition to this high quality solution, a significant time saving on the vehicle is achieved by using this plug & play solution.

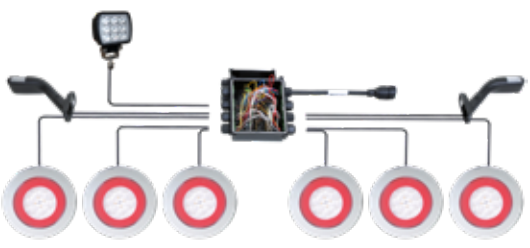
STANDARD upgrading kit with TM5 tail light 3-function — **Article no. TM091050020**



OBS - It is possible to disconnect the reverse gear alarm from the truck, if rear cable 494 016 667 is installed in connection with the external reverse gear alarm.

ERMAX Plug & Play upgrading kit with many advantages and opportunities

- Time-saving up to 8 hours
  - plug & play installation of plugs, cables and lights
  - Junction box with Super Seal sockets or cable glands for all lighting fuctions
- Secure and documentable installation
- No change of liability in warranty obligations, as existing wiring will not be opened
- Easy to replace damaged parts
- All fuctions are accessible with either Super Seal sockets or cable glands
- The Standard upgrading kits are packed individually in a box - Simple and effective



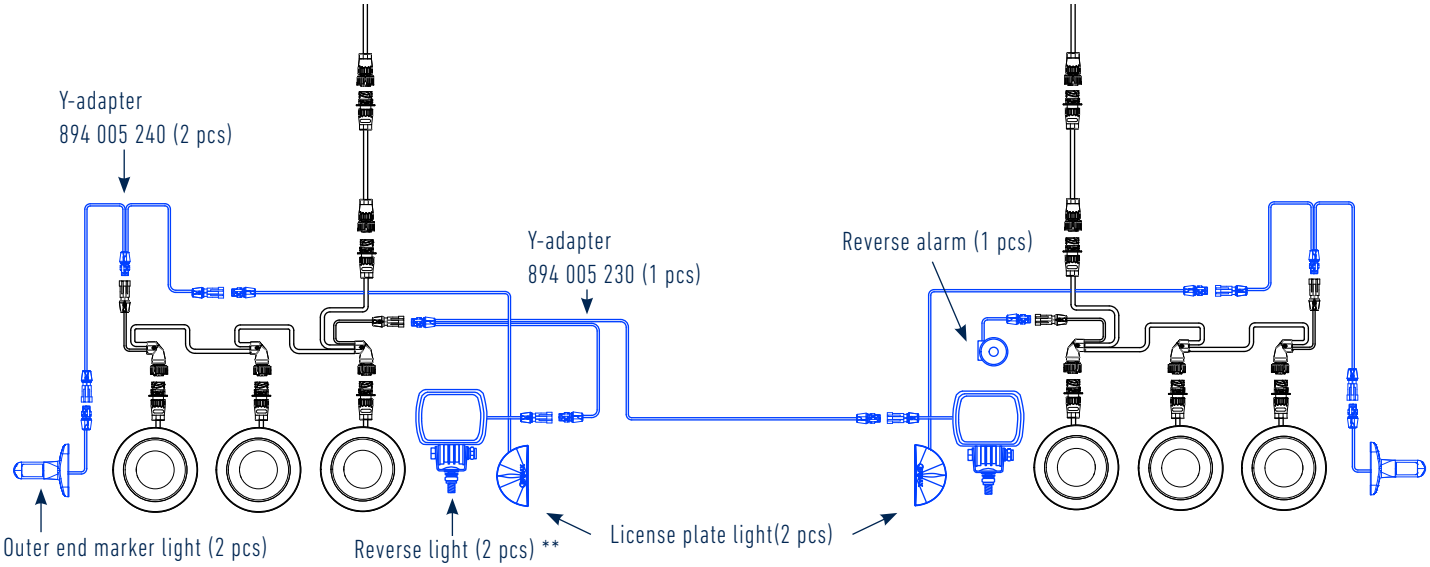
Time demanding installation with juction box and open end solution

Plug & Play mounting - Time-saving

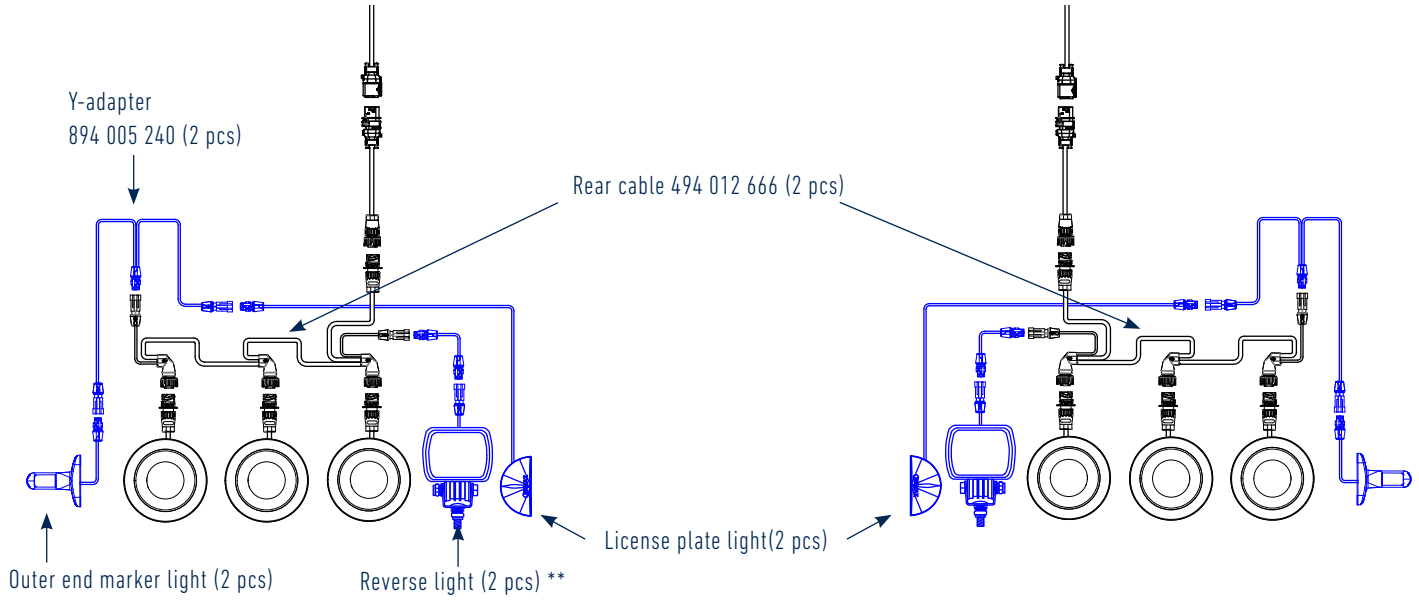
Drawing of complete lighting system with various options of functions

- Option to integrate more lighting functions if needed
- Outlet for reverse light and/or reverse gear alarm from the rear cable
- Easy and time-saving mounting, also for retrofitting

Components marked with blue on below drawing are possible options in relation to the standard kit TM091050020 on previous page.

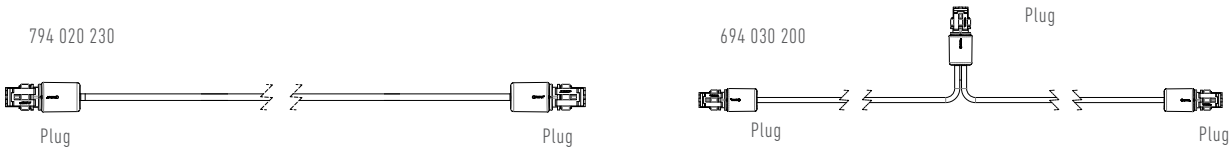


Drawing of rear cable 494 012 666 with outlet for reverse light, mounted on both sides of the vehicle (without reverse gear alarm)



OBS** Connection of reverse lights to rear cable 494 012 666

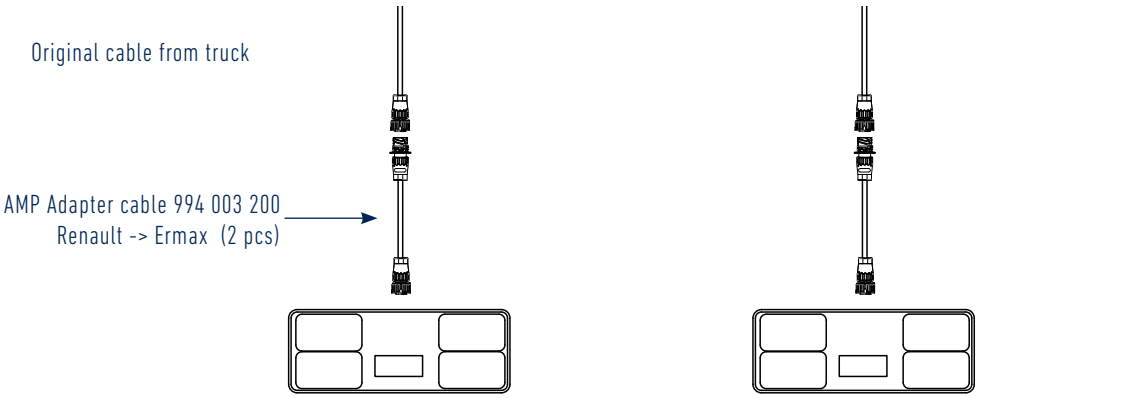
- Is possible by applying Y-adapter 894 005 230 or by applying both the Y-adapter and extension cable (as shown on above drawing). The alternativ could be the extension cable with Super Seal plug 794 020 230 or 694 030 200 as shown below. More lenghts are available.



Part numbers from original manufactures are for reference purpose only and may not be used in offers or other material

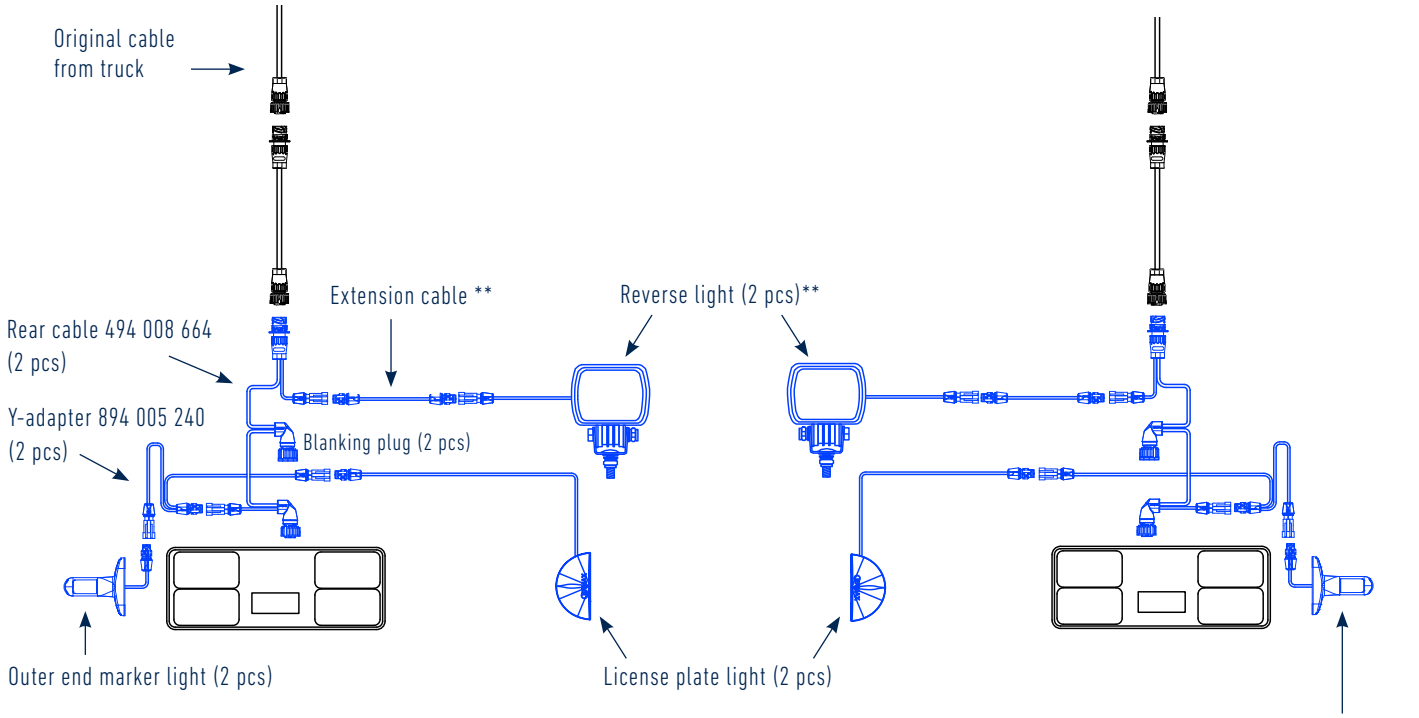
RENAULT - Plug & Play solution TM10 LED tail light

STANDARD upgrading kit with TM10 tail light 6-function — **Article no. TM091050025**



Complete lighting system Standard TM091050025 with various options - without reverse gear alarm

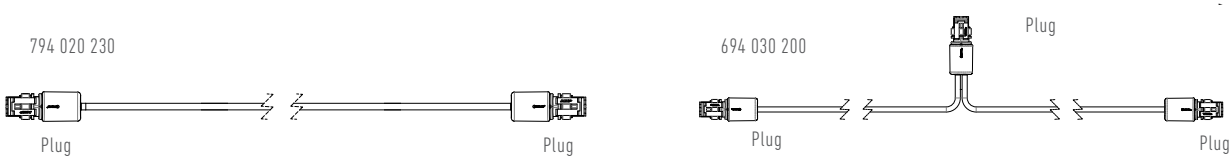
Components marked with blue on below drawing are possible options in relation to the standard kit TM091050025 as shown above.



OBS - The outer end marker can also be delivered with an open end cable - which makes it possible to connect the outer end marker in the TM10 tail light

OBS** Connection of reverse lights to rear cable 494 012 664

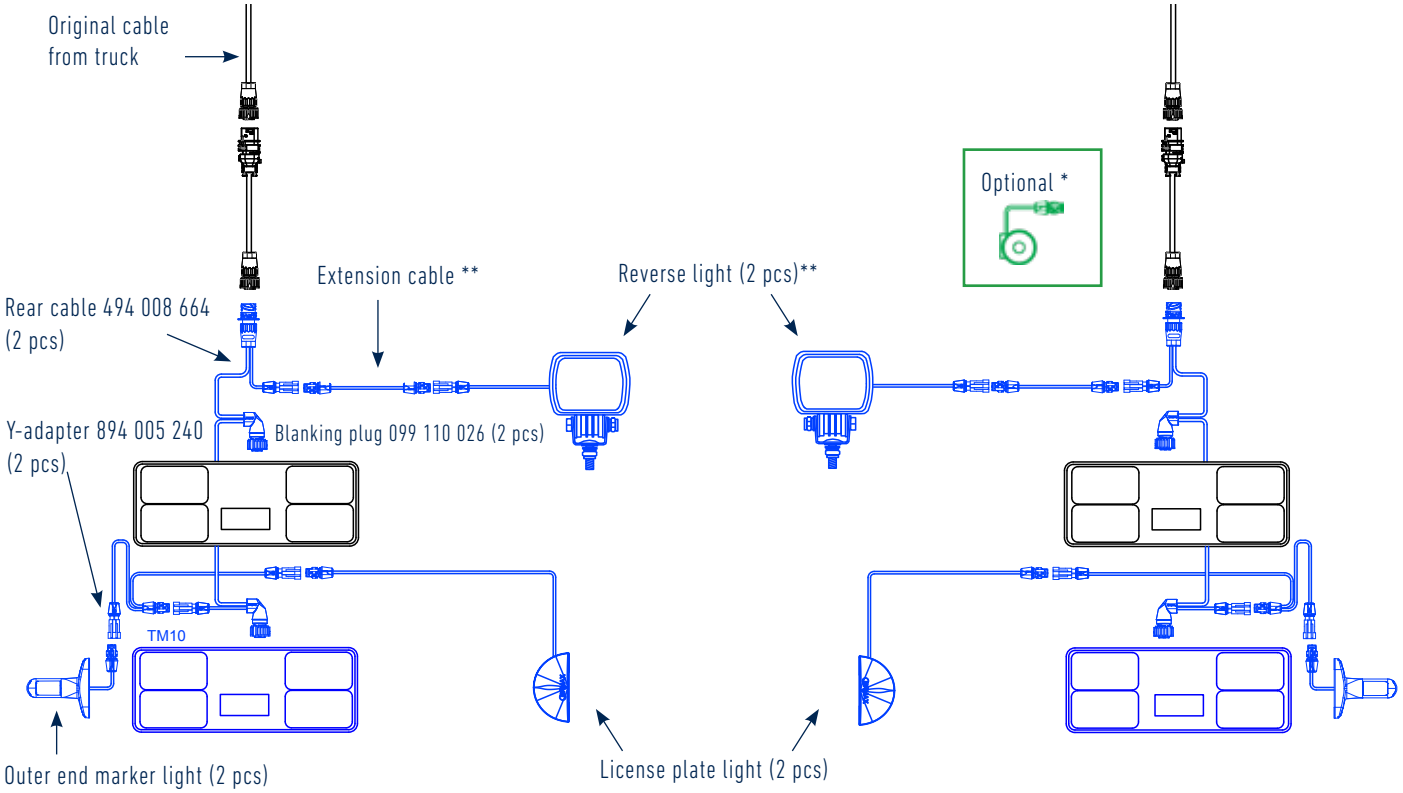
- is possible by applying the Y-adapter 894 005 230 (as shown on above drawing) or by applying the extension cable with Super Seal plug 794 020 230 or 694 030 200 as shown below. More lengths are available.



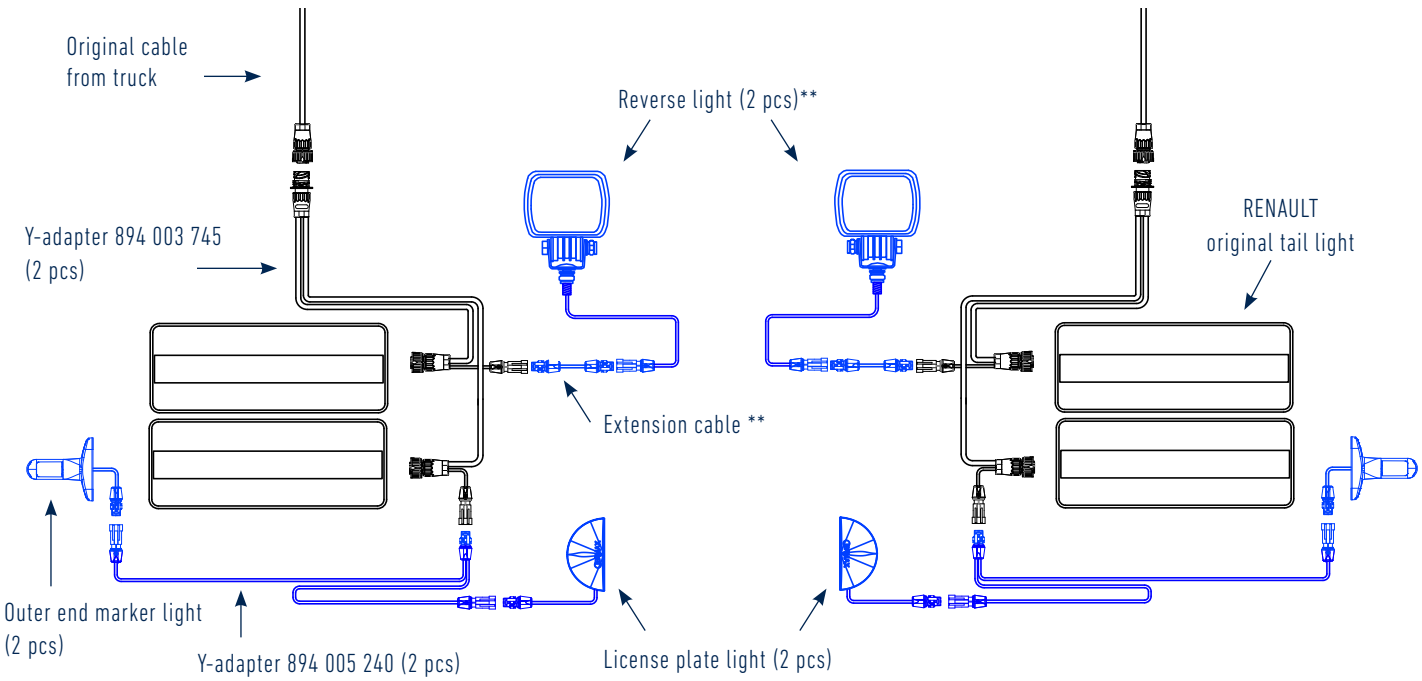
Double lighting installation with TM10 tail lights - alternatively original VOLVO tail lights with various options of lighting functions

Reverse gear alarm *

Rear cable 494 012 667 should be mounted in the right side of the vehicle, where to the reverse gear alarm should be connected, if it is required to control and mute the reverse alarm from the truck. The third lighting connection should be blinded with blanking plug 099 110 026



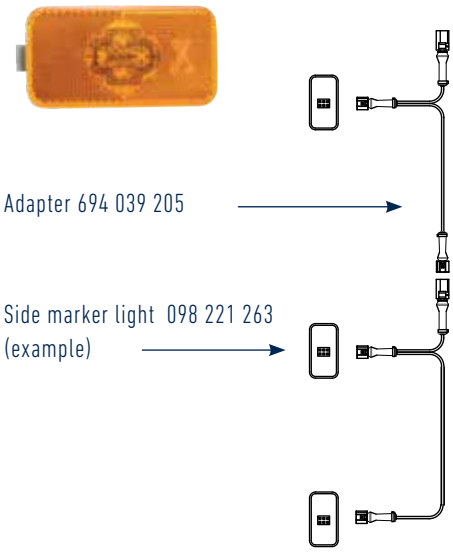
Double lighting installation with orginal RENAULT tail lights

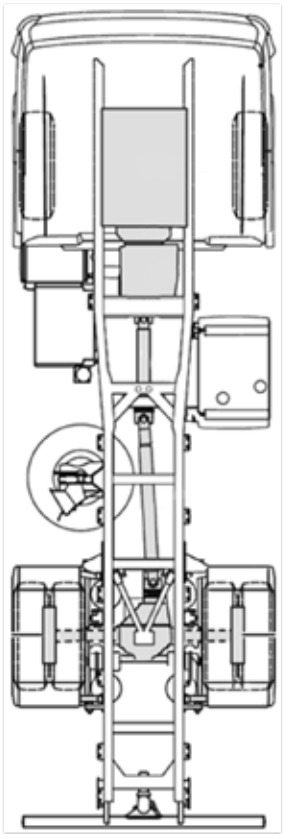


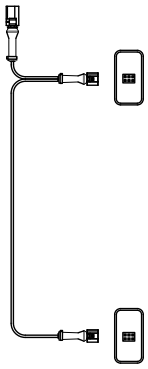
Part numbers from original manufactures are for reference purpose only and may not be used in offers or other material

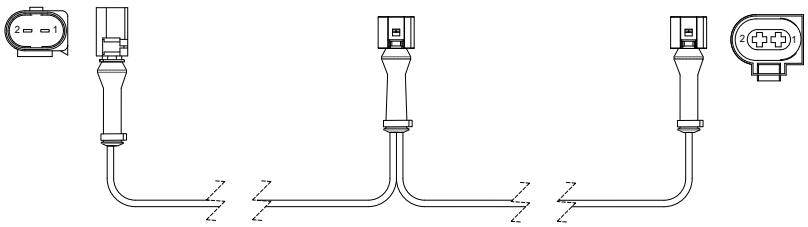
Plug & Play installation of additional side marker light

It is possible to install additional side marker lights (orginals) with the ERMAX side cable adapter with MCP2 plug
- Easy and simple, also for retrofittings







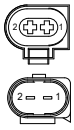


- Remove the side cable from the existing side marker light (from where the extension of the side cable is required)
- Connect the ERMAX side cable adapter to the existing side cable (socket)
- Mount the existing side marker light onto the new side cable - and connect then the new side marker light
- By mounting additonal side cables, it is possible to extend the side cable further

Side cable - Adapter

RENAULT

Connection:	3900 mm -1 x inlet with MCP2 socket 2 x outlet with MCP2 plug
Distance between plugs:	1 x 200 mm + 1 x 3.700 mm
Conductor cross-section:	2 x 0,5 mm²
Cable type:	FLRYY / PVC
Approval:	ADR
Article no.	**694 039 205**



Pin-configuration - 2 poled Super Seal plug		
Position	Color	Function
1	Brown	Ground (–)
2	Blue	Position

Lighting options for lighting systems with TM5 and TM10 tail lights

Outer end marker light LED

Long or short model
300 mm cable with Super Seal plug

Article no.	
098 241 448 (RH) 098 241 449 (LH)	098 241 218 (RH/LH)

License plate light LED

Half-round or square model
1200 mm cable with Super Seal plug

Article no.	
098 254 335	098 254 345

Reverse light LED

300 mm cable with Super Seal socket **
Approved as reverse light with 30^0 or 35^0 angling by vertical mounting *

Article no.		
098 256 255 Lumen: 650 / 300	098 174 265 Lumen: 1.600 / 1.200 * 30^0 angling	098 174 275 Lumen: 2.400 / 1.800 * 35^0 angling

Reverse gear alarm

250 mm cable with
Super Seal plug

Article no.
090 450 350

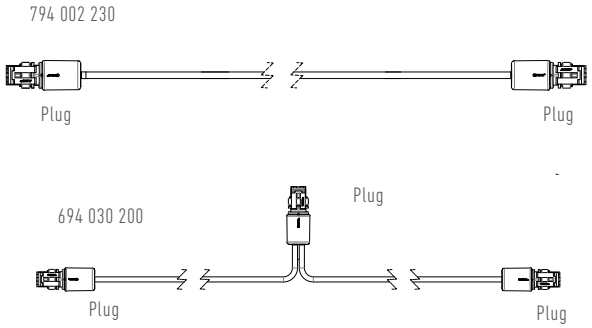
TM10 Tail light LED

License plate light integrated in
the bottom of the trail light

Article no.
098 216 511 (LH)
098 216 510 (RH)

** Connection of reverse lights to rear cable 494 012 664

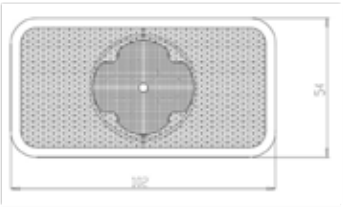
- Is possible by applying the Y-adapter 894 005 230 or extension cable with Super Seal plug 794 002 230 or 694 030 200 as shown below. More lengths are available.



Side marker light RENAULT

Side marker light LED 24V

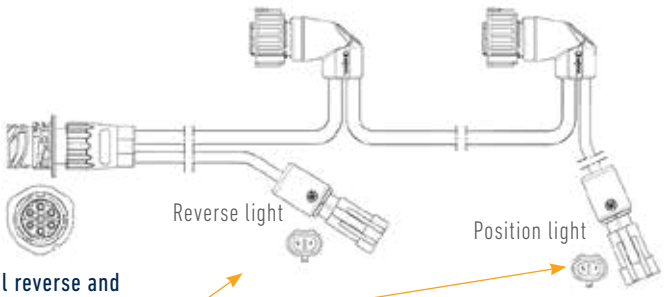
RENAULT



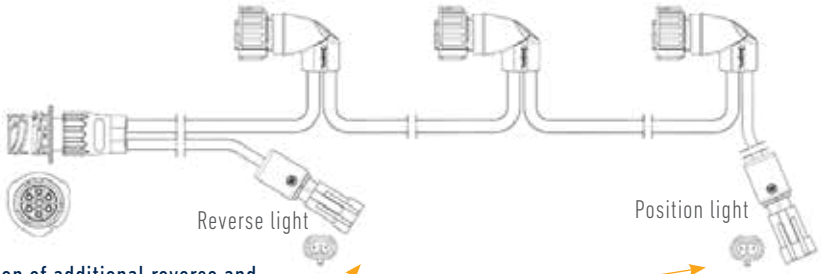
Description:	Orange, plastic housing with 3 LEDs - without reflex reflector
Surface mounting:	Horizontal / vertical - mounting depth 35 mm
Connection:	Integrated 2 poled AMP plug
Dimension:	104 x 54 mm
Approval:	ECE, IP67
Suitable for:	20398660
Article no.	**098 221 263**

Rear cable

Application / Description	Article no.
Rear cable 6 core – single, chain 7-polet AMP 1,5 socket, straight > 2 x AMP 1,5 plug, angled Conductor cross-section: 6x1 mm² / 2x1 mm² Cable type: FLRYY / PVC	
6 core 800 mm With 2 x 2 poled outlet with Super Seal for position light and reverse light	494 008 664
Rear cable 6 core – single, chain 7-polet AMP 1,5 socket, straight > 3 x AMP 1,5 plug, angled Conductor cross-section: 6x1 mm² / 2x1 mm² Cable type: FLRYY / PVC	
6 core 1.200 mm With 2 x 2 poled outlet with Super Seal for position light and reverse light	494 012 666
6 core 1.200 mm With 2 x 2 poled outlet with Super Seal for positionlight and reverse alarm OBS: Pin no. 7 in the 7 poled AMP plug is for the reverser gear alarm	494 012 667



Easy connection of additional reverse and position lights with 2 poled Super Seal outlets



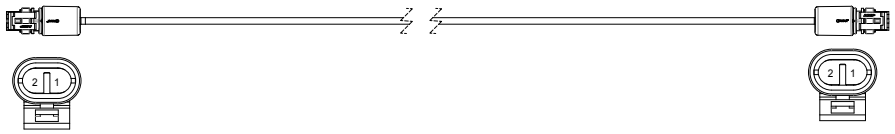
Easy connection of additional reverse and position lights with 2 poled Super Seal outlets

Possibility for outlet for the reverse gear alarm, which can be disconnected manually from the truck

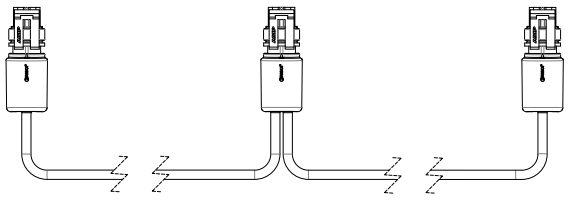
Part numbers from original manufactures are for reference purpose only and may not be used in offers or other material

Extension cable (For additional lenghts - see section " cables universal")

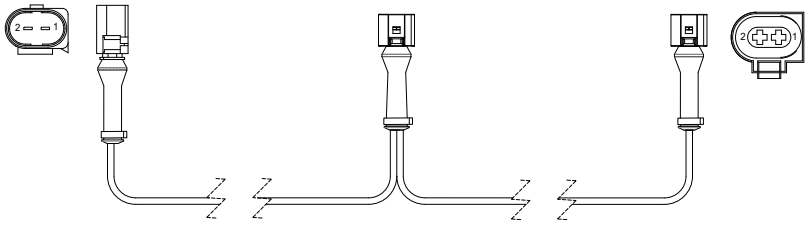
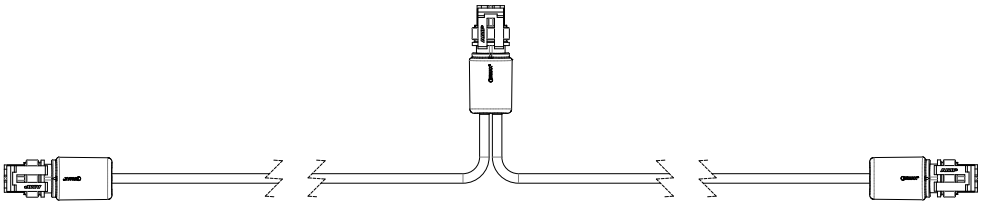
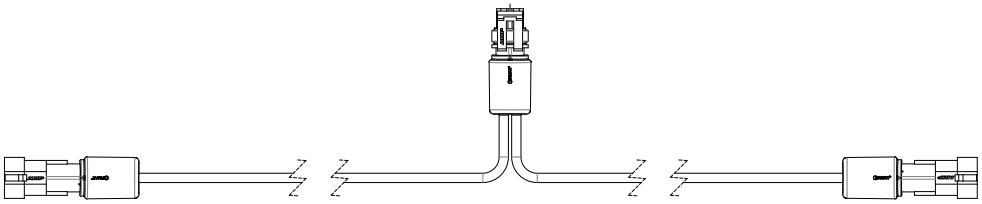
	Application / Description	Article no.
	Extension cable, 2 core Super Seal plug > Super Seal plug Conductor cross-section: 2x1 mm² Cable type: FLRYY / PVC	
	200 mm	794 002 230
	500 mm	794 005 230
	1.000 mm	794 010 230
	1.500 mm	794 015 230



	Extension cable, 2 core – chain 1 inlet + 2 outlets with Super Seal plug Conductor cross-section: 2x0,5 mm² Cable type: FLRYY / PVC	
	3.000 mm Distance between plugs: 1x1.700 mm + 1x1.300 mm	694 030 200
	4.200 mm Distance between plugs: 1x1.200 mm + 1x3.000 mm	694 042 200
	5.300 mm Distance between plugs: 1x300 mm + 1x5.000 mm	694 053 200

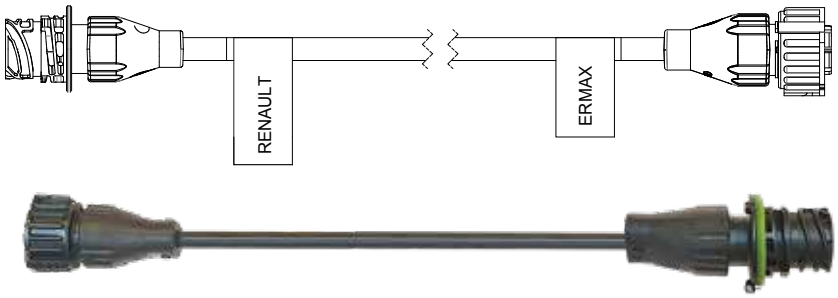


Side cable RENAULT / Y-adapter cable (Universal)

	Application / Description	Article no.
	Side cable, 2 core – chain (Volvo) For extension of original cable for side marker lights 1 x inlet with MCP2 socket 2 x outlets with MCP2 plug Conductor cross-section: 2x0,5 mm^2 Cable type: FLRYY / PVC	
	3.900 mm Distance between plugs: 1 x 200 mm + 1 x 3.700 mm	694 039 205
		
	Y-adapter cable, 2 core 3 x Super Seal plug Conductor cross-section: 2x1 mm^2 Cable type: FLRYY / PVC	
	2 x 500 mm	894 005 230
	2 x 2.000 mm	894 020 230
		
	Y-adapter cable, 2 core 1 x Super Seal plug + 2 x Super Seal sockets Conductor cross-section: 2x1 mm^2 Cable type: FLRYY / PVC	
	2 x 500 mm	894 005 240
		

Adapter cable - RENEAULT

	Application / Description	Article no.
	Adapter cable, 7 core - for connection af Ermax tail lights 7-polet AMP plug (Ermax) <> 7-polet AMP socket (Renault) Conductor cross-section: 7x1 mm² Cable type: FLRYY / PVC **300 mm**	994 003 200
	Y-adapter cable, 7-core 2x2 poled outlet (200 mm) with Super Seal socket for position and reverse light. Conductor cross-section: 7x1,0 mm² / 2 x 1,0 mm². Cable type: FLRYY / PVC **2 x 300 mm** For connection of an additional tail light on the Renault truck.	894 003 745



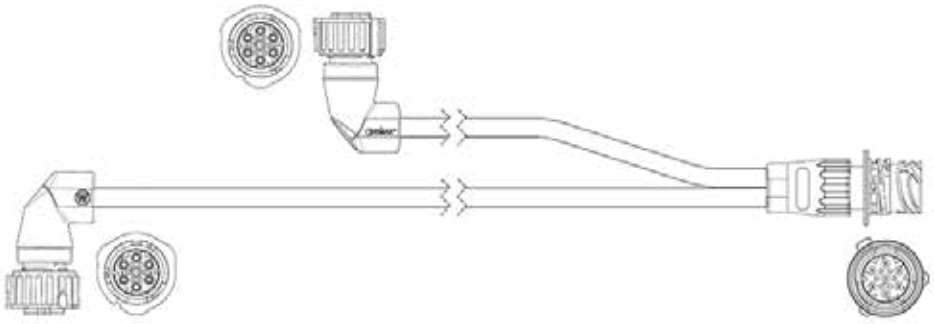
Renault connection :
1 : Ground
2 : Dir. indicator
3 : Stop
4 : Position
5 : Reverse
6 : Fog
7 : = 7 in ERMAX

Easy to connect an additional tail light by applying the plug & play adapter cable

OBS: The 7 core rear cable makes it possible to manually disconnect the reverse gear alarm from the truck

Adapter cable - RENAULT

	Application / Description	Article no.
	Y-adapter cable, 7 core 6 core 3700 mm cable with 7 poled AMP plug > 7 poled AMP socket > 900 mm cable with 7 poled AMP plug Conductor cross-section: 6 x 1,0 mm^2 og 7 x 1,0 mm^2 Cable type: FLRYY / PVC	
	3.700 mm	894 037 744



OBS: **Easy to connect an additional tail light** by applying the plug & play adapter cable

Plug & Play solutions for MERCEDES

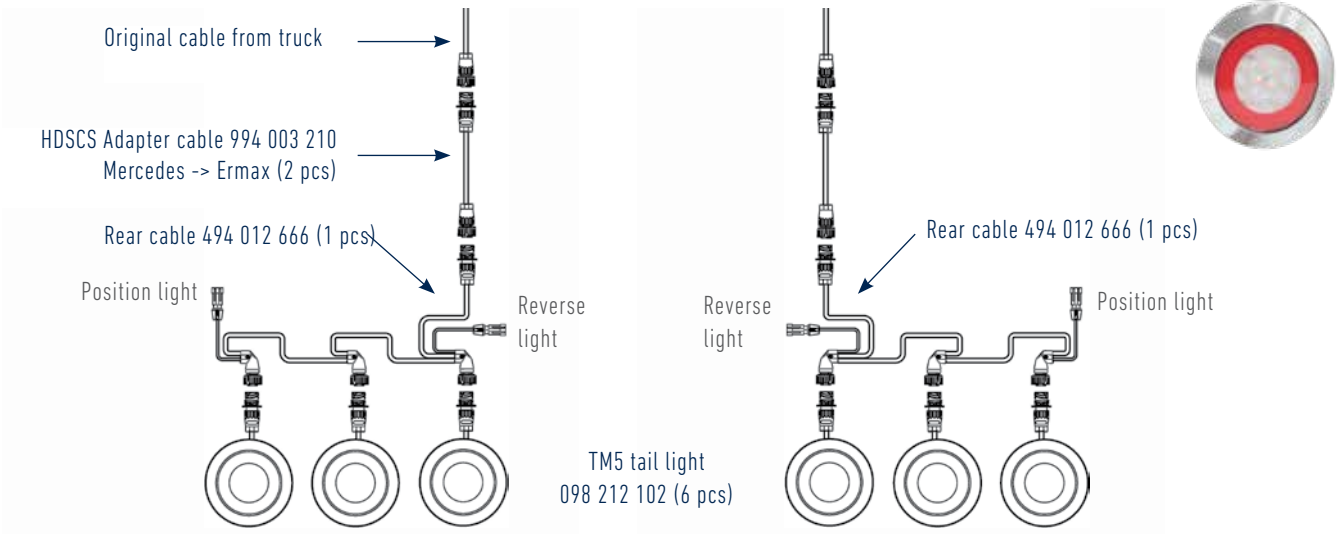
ERMAX®

MERCEDES - Plug & Play solution TM5 LED tail light

A complete upgrading kit from ERMAX with LED tail lights and time-saving mounting - directly integrated on the vehicle

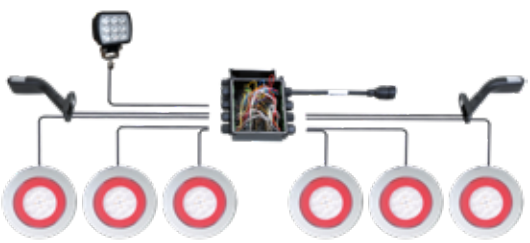
A pre-assembled cable set enables a direct plug & play mounting of plug, cables and ERMAX Eternal Light® tail lights (TM5, TM10 and TM11) – a solution with opportunity for flexible connections of e.g. position lights, reverse light and reverse gear alarm, all without opening the exsisting wiring on the truck. In addition to this high quality solution, a significant time saving on the vehicle is achieved by using this plug & play solution.

STANDARD upgrading kit with TM5 tail light 3-function — **Article no. TM091050030**

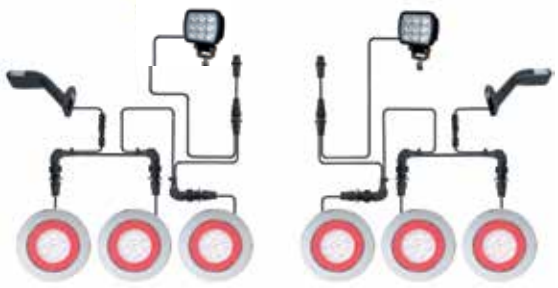


ERMAX Plug & Play upgrading kit with many advantages and opportunities

- Time-saving up to 8 hours
  - plug & play installation of plugs, cables and lights
  - Junction box with Super Seal sockets or cable glands for all lighting fuctions
- Secure and documentable installation
- No change of liability in warranty obligations, as existing wiring will not be opened
- Easy to replace damaged parts
- All fuctions are accessible with either Super Seal sockets or cable glands
- The Standard upgrading kits are packed individually in a box - Simple and effective



Time demanding installation with juction box and open end solution



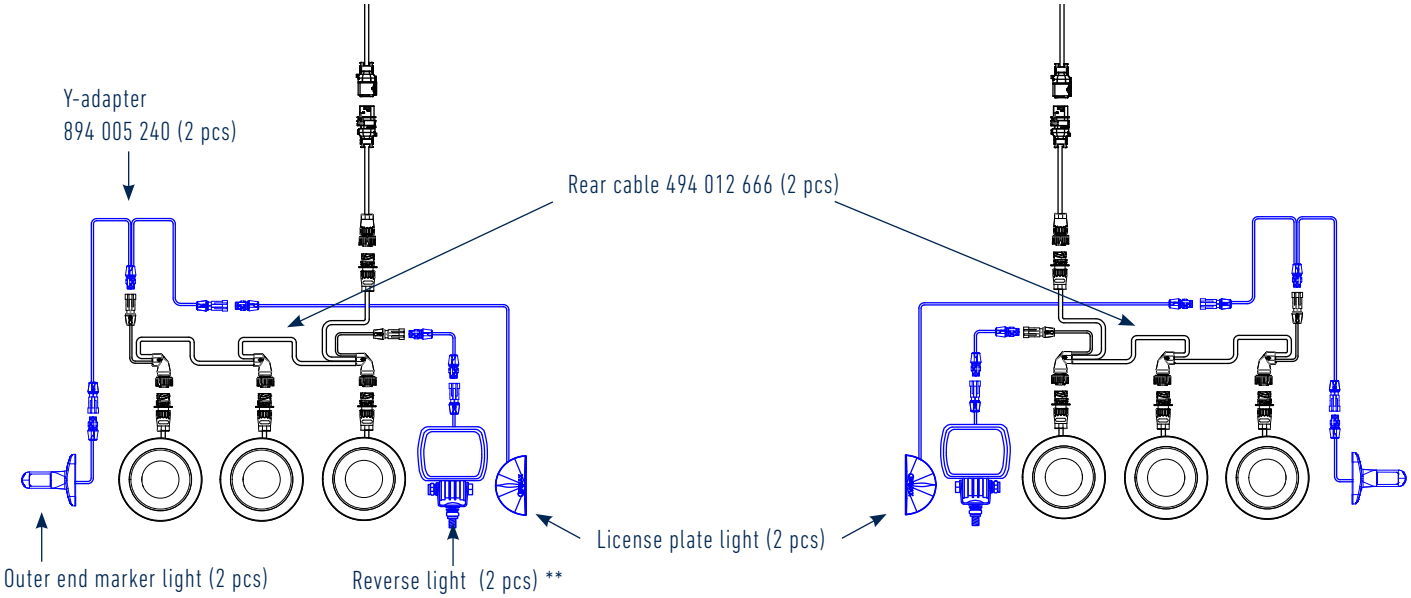
Plug & Play mounting - Time-saving

Drawing of complete lighting system with various options of functions

- Option to integrate more lighting functions if needed
- Outlet for reverse light and/or reverse gear alarm from the rear cable
- Easy and time-saving mounting, also for retrofitting

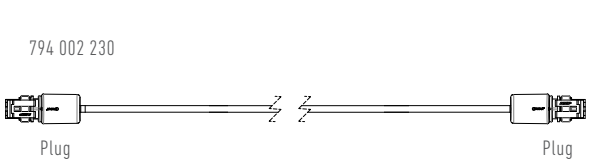
Components marked with blue on below drawing are possible options in relation to the standard kit TM091050030 as shown on previous page

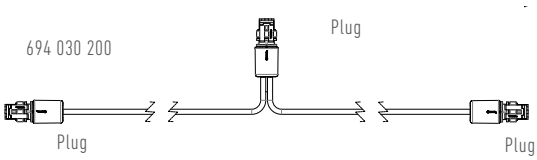
Drawing of rear cable 494 012 666 with outlet for reverse light, mounted on both sides of the vehicle (without reverse gear alarm)



OBS** Connection of reverse lights to rear cable 494 012 666

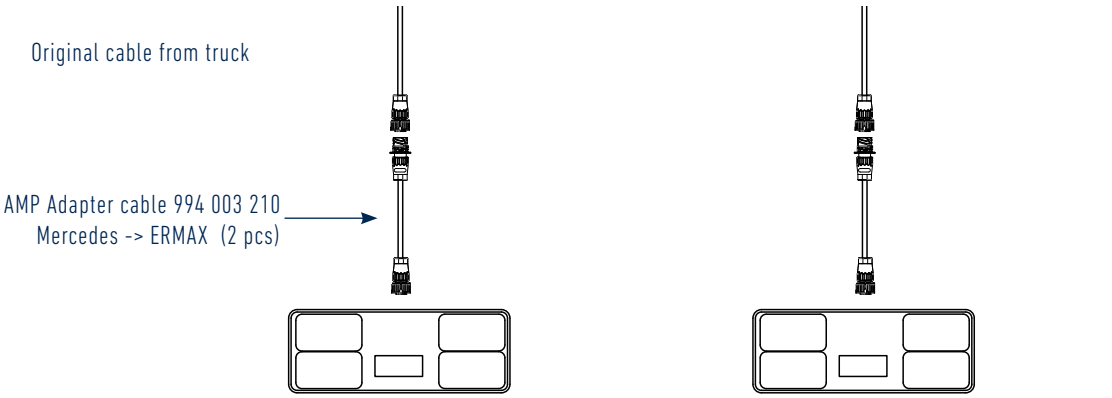
- Is possible by applying Y-adapter 894 005 230 or by applying both the Y-adapter and extension cable (as shown on above drawing). The alternativ could be the extension cable with Super Seal plug 794 020 230 or 694 030 200 as shown below. More lenghts are available.





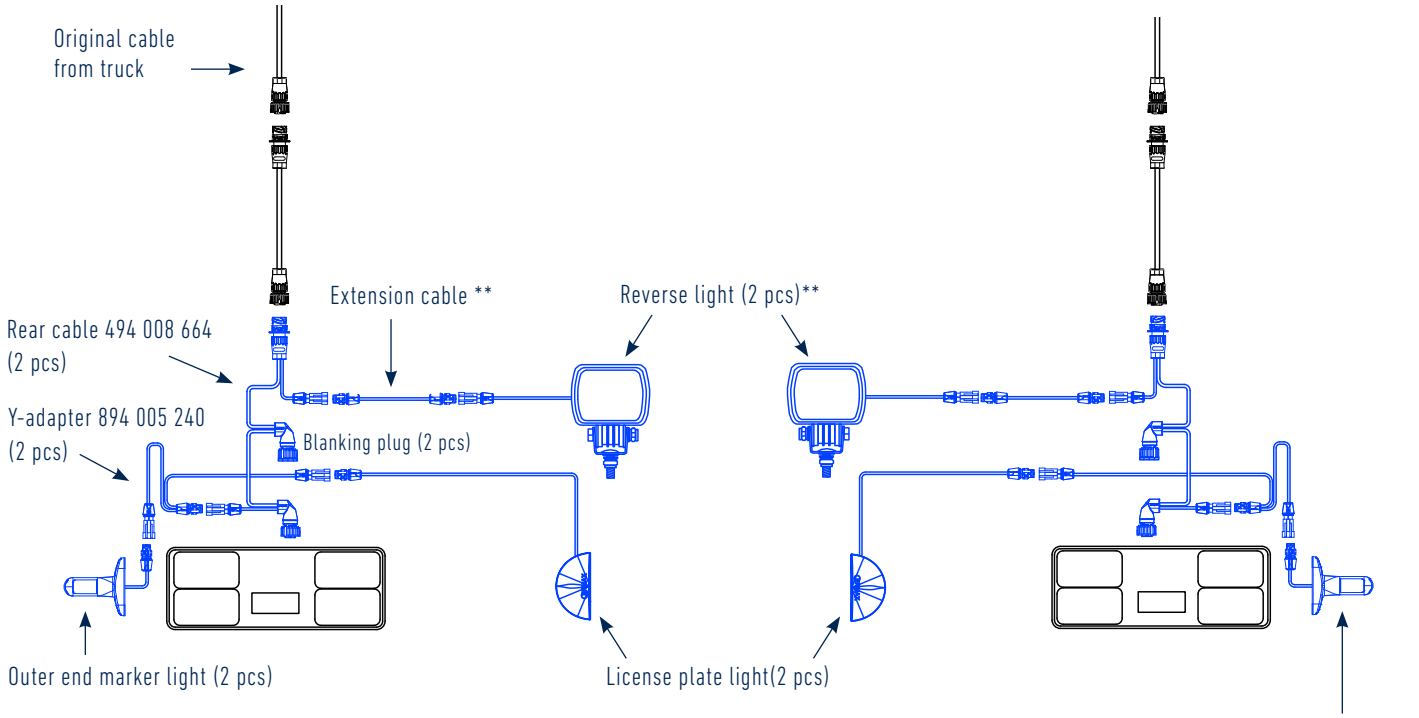
MERCCEDES - Plug & Play solution TM10 LED tail light

STANDARD upgrading kit with TM10 tail light 6-function — **Article no. TM091050035**



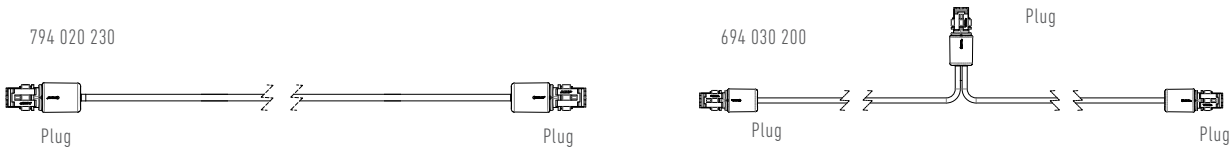
Complete lighting system Standard TM091050035 with various options - without reverse gear alarm

Components marked with blue on below drawing are possible options in relation to the standard kit TM091050035 as shown above.

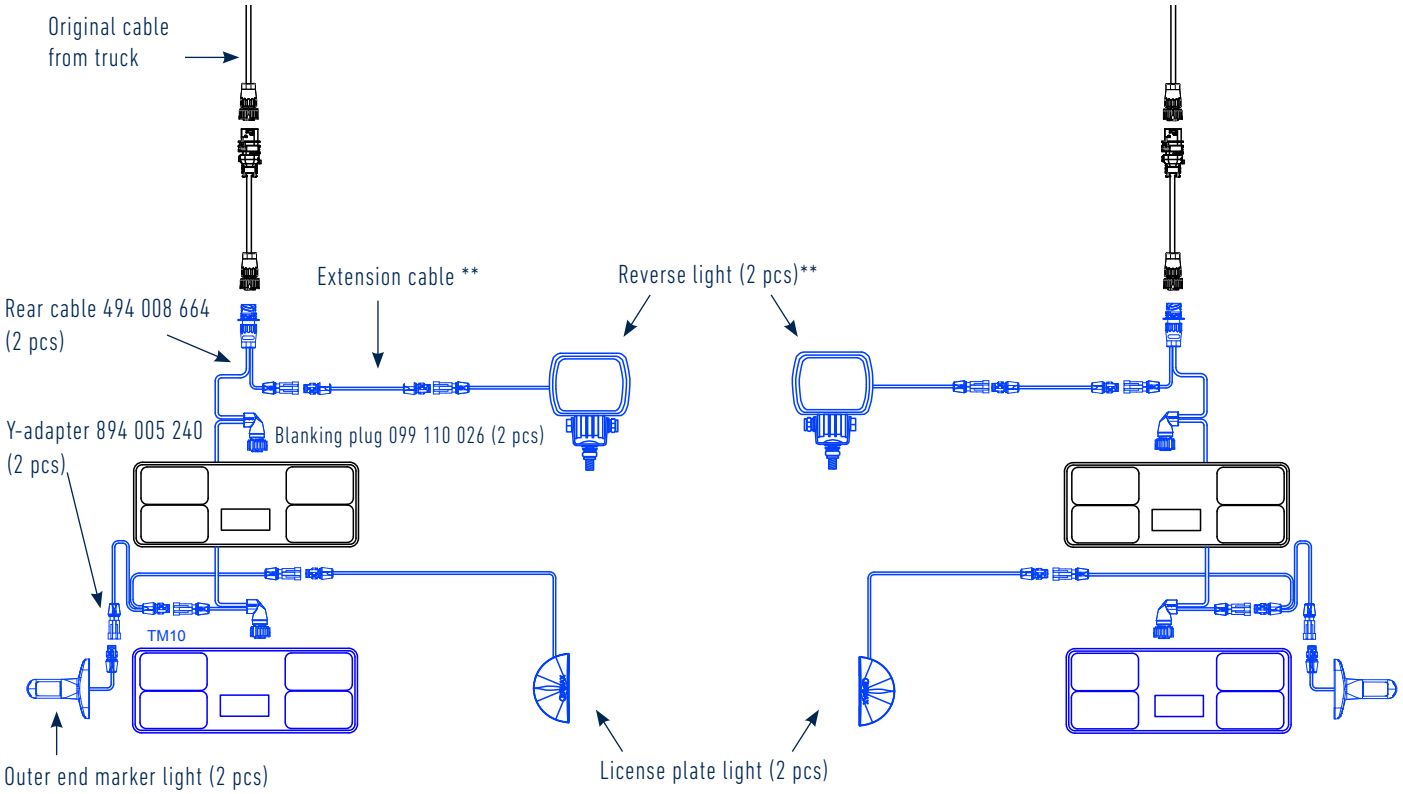


OBS** Connection of reverse lights to rear cable 494 012 664

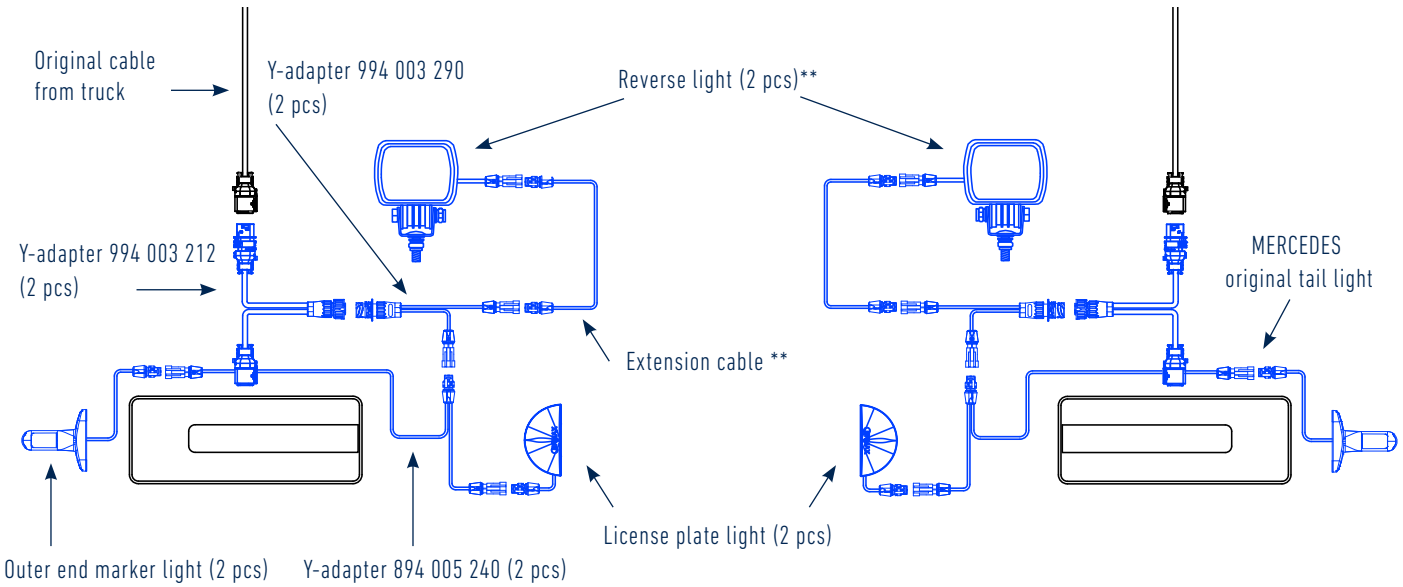
- Is possible by applying Y-adapter 894 005 230 or by applying both the Y-adapter and extension cable (as shown on above drawing). The alternativ could be the extension cable with Super Seal plug 794 020 230 or 694 030 200 as shown below. More lenghts are available.



Double lighting installation with TM10 tail lights with various options of functions



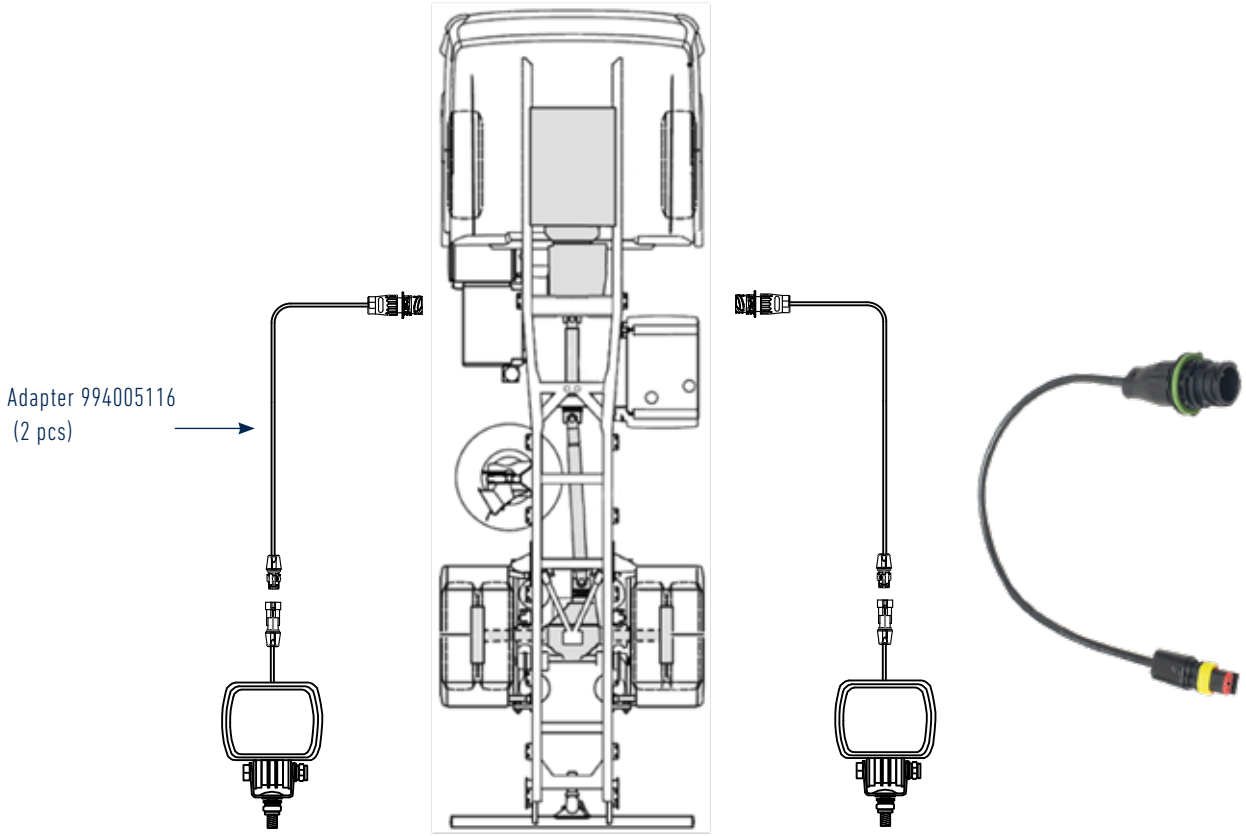
Double installation with original MERCEDES tail lights



Plug & Play installation of work lights in front of the truck

It is possible to install work lights with the 4 poled AMP plug placed in front of the truck by using the ERMAX adapter

- Easy and simple, also for retrofittings



Adapter 994005116

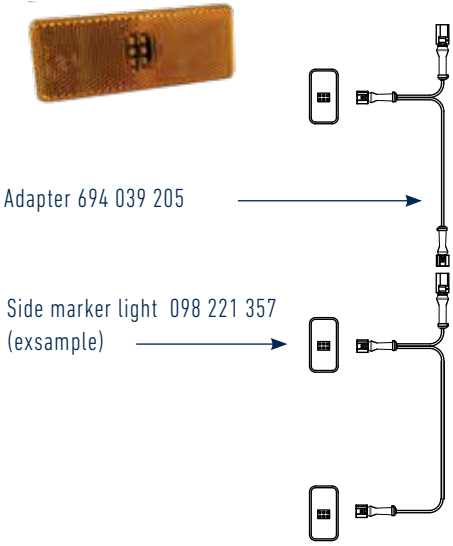
Adapter cable	
MERCEDES	
Connection:	500 cable with Super Seal plug > 4 polet AMP socket
Conductor cross-section:	2 x 1 mm²
Cable type:	FLRYY / PVC
Approval:	ADR
Article no.:	**994 005 116**

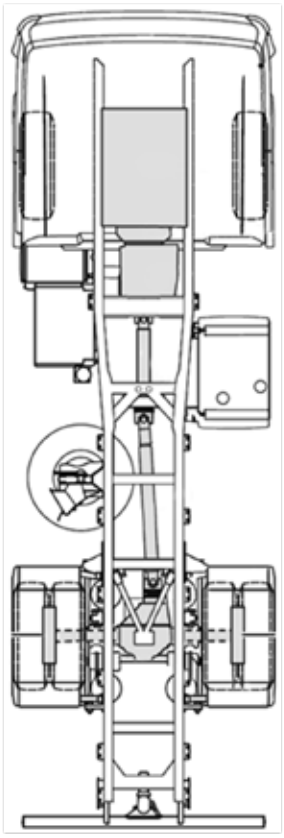
Pin configuration - 2 poled Super Seal plug		
Position	Color	Function
1	Brown	Ground (–)
2	Blue	Plus (+)

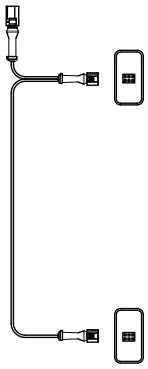
Pin configuration - 4 poled AMP plug		
Position	Color	Function
1	Blue	Plus (+)
2	Brown	Ground (–)
3	-	(Not connected)
4	-	(Not connected)

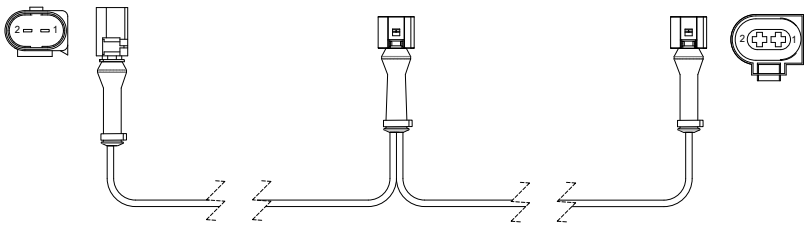
Plug & Play installation of additional side marker lights

It is possible to install additional side marker lights (orginals) with the ERMAX side cable adapter with MCP2 plug
- Easy and simple, also for retrofittings







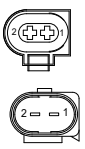


- Remove the side cable from the existing side marker light (from where the extension of the side cable is required)
- Connect the ERMAX side cable adapter to the existing side cable (socket)
- Mount the existing side marker light onto the new side cable - and connect then the new side marker light
- By mounting additonal side cables, it is possible to extend the side cable further

Side cable - Adapter

MERCEDES

Connection:	3900 mm -1 x inlet with MCP2 socket 2 x outlets with MCP2 plug
Distance between plugs:	1 x 200 mm + 1 x 3.700 mm
Conductor cross-section:	2 x 0,5 mm²
Cable type:	FLRYY / PVC
Approval:	ADR
Article no.	**694 039 205**



Pin configuration - 2 poled Super Seal plug		
Position	Color	Function
1	Brown	Ground (–)
2	Blue	Position

Part numbers from original manufactures are for reference purpose only and may not be used in offers or other material

Lighting options for lighting systems with TM5 and TM10 tail lights

Outer end marker light LED

Long or short model
300 mm cable with Super Seal plug

Article no.	
098 241 448 (LH) 098 241 449 (RH)	098 241 218 (H/V)

License plate light LED

Half-round or square model
1200 mm cable with Super Seal plug

Article no.	
098 254 335	098 254 345

Reverse light LED

300 mm cable with Super Seal socket **
Approved as reverse light with 30^0 or 35^0 angling by vertical mounting *

Article no.		
098 256 255 Lumen: 650 / 300	098 174 265 Lumen: 1.600 / 1.200 * 30^0 angling	098 174 275 Lumen: 2.400 / 1.800 * 35^0 angling

Reverse gear alarm

250 mm cable with
Super Seal plug

Article no.
090 450 350

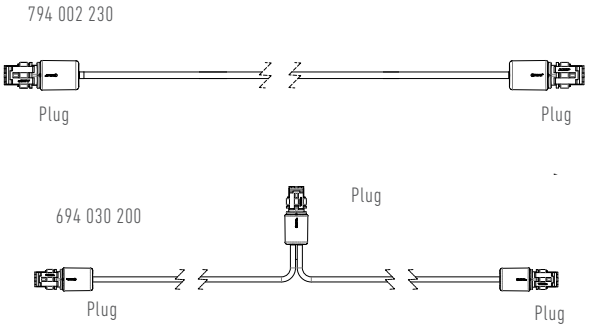
TM10 Tail light LED

The license plate light is integrated in the bottom of the tail light

Article no.
098 216 511 (V)
098 216 510 (H)

** Connection of reverse lights to rear cable 494 012 664

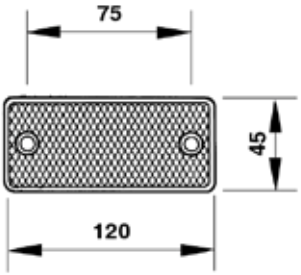
- Is possible by applying the Y-adapter 894 005 230 or extension cable with Super Seal plug 794 002 230 or 694 030 200 as shown below. More lengths are available

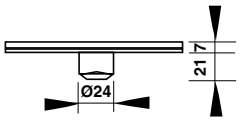


Side marker lights MERCEDES

Side marker light LED 24V

Mercedes

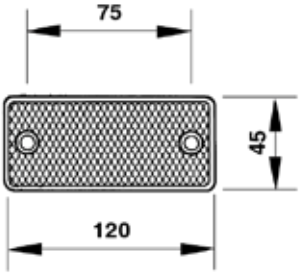


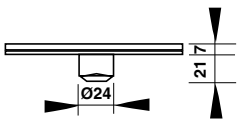


Description:	PMMA Lens and plastic housing - 1 LED and with reflex reflector
Surface mounting:	Horizontal - mounting depth 21 mm
Connection:	200 mm cable open end
Dimension:	120 x 45 x 7 mm
Bolt distance:	75 mm
Approval:	ECE, IP67
Suitable for:	0005447211, 0005445211
Article no.	**098 221 354**

Side marker light LED 24V

Mercedes





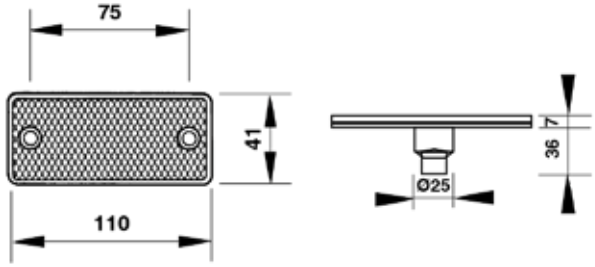
Description:	PMMA Lens and plastic housing - 1 LED and with reflex reflector
Surface mounting:	Horizontal
Connection:	600 mm connection cable with 2 poled AMP JPT plug
Dimension:	120 x 45 x 7 mm
Bolt distance:	75 mm
Approval:	ECE, IP67
Suitable for:	A 000 544 49 11
Article no.	**910 221 827**

Part numbers from original manufactures are for reference purpose only and may not be used in offers or other material

Side marker lights MERCEDES

Side marker light LED 12/24V

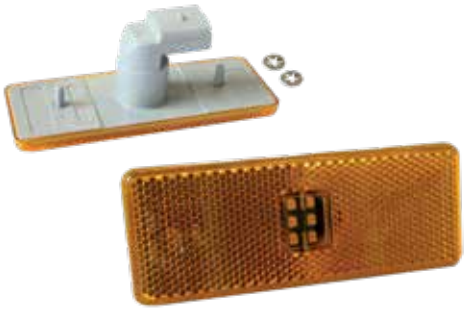
Mercedes

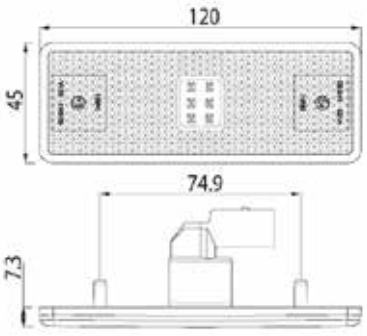


Description:	PMMA Lens and plastic housing with sealed cable outlet - 4 LEDs and with reflex reflector
Surface mounting:	Horizontal / vertical - mounting depth 35 mm
Connection:	200 mm cable open end (sealed cable outlet)
Dimension:	110 x 41 x 9 mm
Bolt distance:	75 mm
Approval:	ECE, IP67
Suitable for:	A 002 820 8856
Article no.	**098 221 222**

Side marker light LED 12/24V

Mercedes

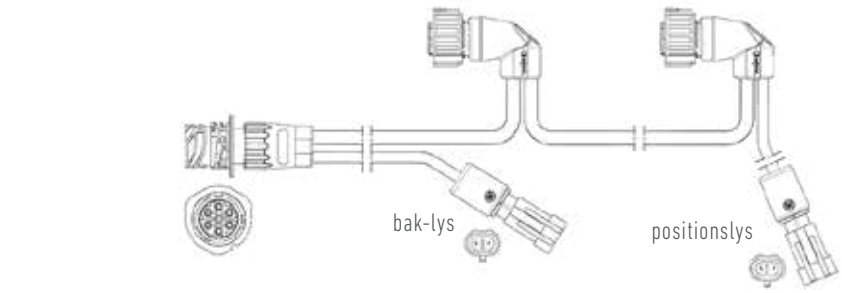




Description:	PMMA Lens and plastic housing - 4 LEDs and with reflex reflector
Surface mounting:	Horizontal / vertical - mounting depth 37 mm
Connection:	See the part numbers below for connection possibilities
Dimension:	120 x 45 x 9 mm
Bolt distance:	75 mm
Approval:	ECE, IP67
Suitable for:	000 544 72 11, 000 544 54 11, 000 544 52 11, 375 544 02 11
Article no.	**098 221 353 - 100 mm cable open end / 098 221 357 - with 2 poled MCP2 connection plug**

Rear cable

	Application / Description	Article no.
	Rear cable 6 core – single, chain AMP 1,5 socket, straight > 2 x AMP 1,5 plug, angled Conductor cross-section: 6x1 mm^2 / 2x1 mm^2 Cable type: FLRYY / PVC **6 core 800 mm** With 2 x 2 poled outlet with Super Seal for position light and reverse light	494 008 664
	Rear cable 6 core – single, chain AMP 1,5 socket, straight > 3 x AMP 1,5 plug, angled Conductor cross-section: 6x1 mm^2 / 2x1 mm^2 Cable type: FLRYY / PVC **6 core 1.200 mm** With 2 x 2 poled outlet with Super Seal for positions light and reverse light	494 012 666

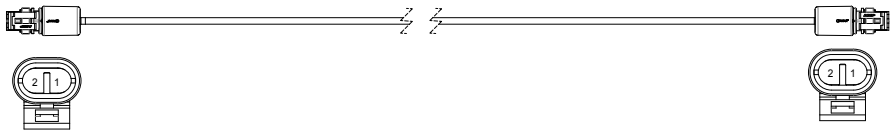


Easy to connect additional reverse and position lights with 2 poled Super Seal outlets

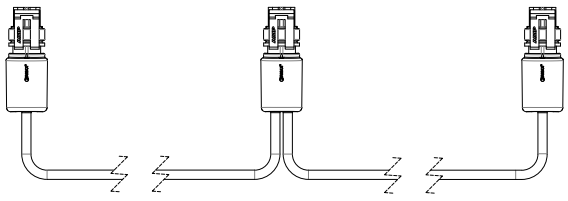
Easy to connect additional reverse and position lights with 2 poled Super Seal outlets

Extension cable (For additional lenghts - see section " cables universal")

	Application / Description	Article no.
	Extension cable, 2 core Super Seal plug > Super Seal plug Conductor cross-section: 2x1 mm² Cable type: FLRYY / PVC	
	200 mm	794 002 230
	500 mm	794 005 230
	1.000 mm	794 010 230
	1.500 mm	794 015 230

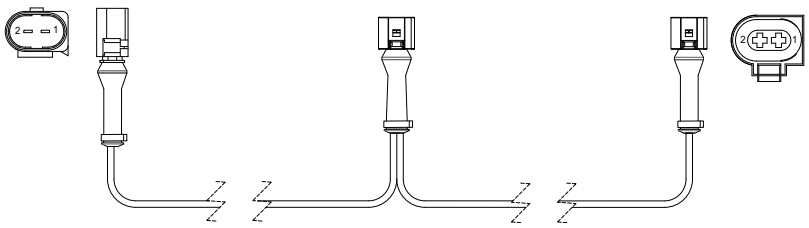


	Application / Description	Article no.
	Extension cable, 2 core – chain 1 inlet + 2 outlets with Super Seal plug Conductor cross-section: 2x0,5 mm² Cable type: FLRYY / PVC	
	3.000 mm Distance between plugs: 1x1.700 mm + 1x1.300	694 030 200
	4.200 mm Distance between plugs: 1x1.200 mm + 1x3.000	694 042 200
	5.300 mm Distance between plugs: 1x300 mm + 1x5.000	694 053 200



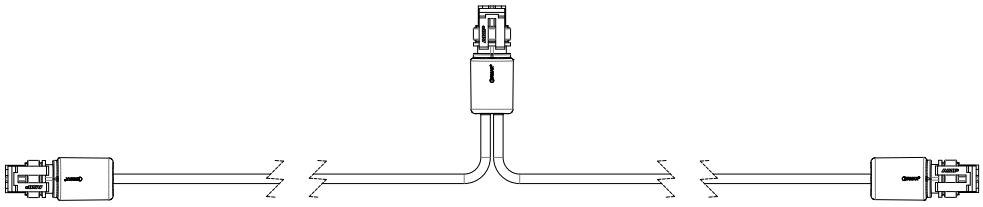
Side cable Mercedes Benz / Y-adapter cable (Universal)

	Application / Description	Article no.
	Side cable, 2 core – chain (MB) For extension of original cable for side marker lights 1 x inlet with MCP2 socket 2 x outlets with MCP2 plug Conductor cross-section: 2x0,5 mm^2 Cable type: FLRYY / PVC	
	3.900 mm Distance between plugs: 1 x 200 mm + 1 x 3.700 mm	694 039 205

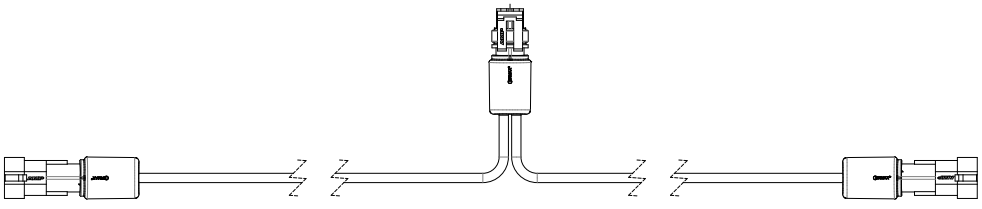


Side cable to extend the original cable for side marker lights

	Y-adapter cable, 2 core 3 x Super Seal plug Conductor cross-section: 2x1 mm^2 Cable type: FLRYY / PVC	
	2 x 500 mm	894 005 230
	2 x 2.000 mm	894 020 230

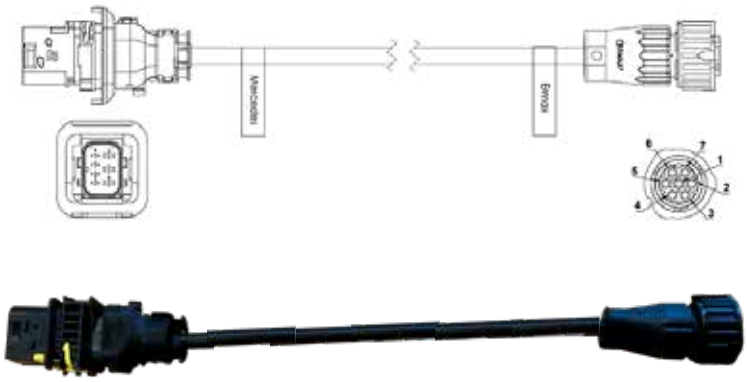


	Y-adapter cable, 2 core 1 x Super Seal plug + 2 x Super Seal socket Conductor cross-section: 2x1 mm^2 Cable type: FLRYY / PVC	
	2 x 500 mm	894 005 240



Adapter cable - Mercedes Benz

	Application / Description	Article no.
Mercedes connection : 1 : Position 2 : Rear fog 3 : Ground 4 : Direction indicator 5 : Reverse 6 : Stop 7 : = 7 in ERMAX	**Adapter cable, 7 core - for connection af Ermax tail lights** 7 poled AMP plug (ERMAX) <> 7 poled HD SCS socket (MB) Conductor cross-section: 7x1 mm² Cablet type: FLRYY / PVC 300 mm	994 003 210
	Adapter cable, 4 core - Mercedes Benz 2 poled Super Seal plug > 4 poled AMP socket. Conductor cross-section: 2x1 mm² Cable type: FLRYY / PVC 500 mm	994 005 116



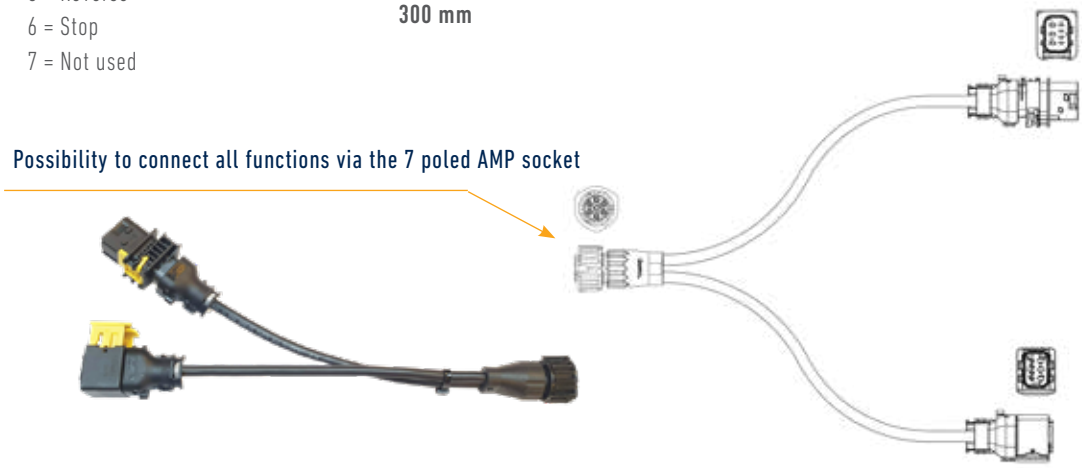
Pin configuration - 2 poled Super Seal plug		
Position	Color	Function
1	Brown	Ground (–)
2	Blue	Permanent power supply (+)

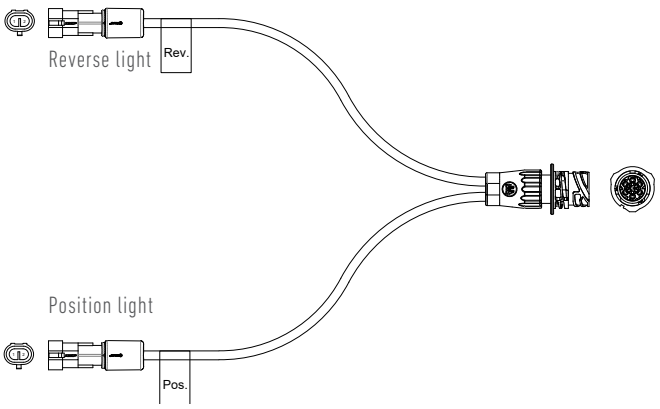
Pin configuration - 4 poled AMP plug		
Position	Color	Function
1	Blue	Permanent power supply (+)
2	Brown	Ground (–)
3	-	(not connected)
4	-	(not connected)

Adapter cable - Mercedes Benz

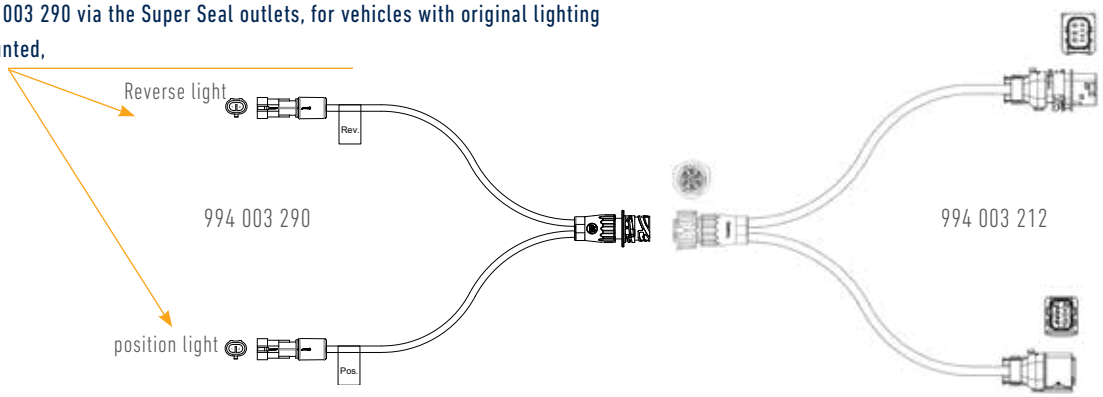
	Application / Description	Article no.
Pin configuration HD SCS : 1 = Position 2 = Rear fog 3 = Ground 4 = Direction indicator 5 = Reverse 6 = Stop 7 = Not used	**Adapter cable, 7 core - Mercedes > Mercedes - complementary part for 994 003 290** 7 poled HD SCS prop (MB) <> 7 poled HD SCS socket (MB) Conductor cross-section: 7x1 mm² Cable type: FLRYY / PVC **300 mm**	994 003 212
Pin configuration 7poled AMP socket: 1 = Ground (-) 2 = Position 3 = Reverse Pin configuration super seal socket: 1 = Ground (-) 2 = Reverse / Position	**Adapter cable, 7 poled - complementary part for 994003212** 7 poled AMP socket > 2 x super seal socket with outlet for position and reverse light Conductor cross-section: 2x0,5 mm² Cable type: FLRYY / PVC **300 mm**	994 003 290

Possibility to connect all functions via the 7 poled AMP socket

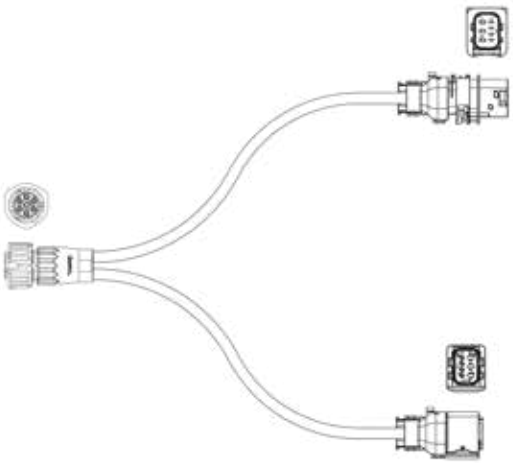




OBS: It is possible to install reverse and position light with the adapter 994 003 290 via the Super Seal outlets, for vehicles with original lighting mounted,



	Application / Description	Article no.
Pin configuration HD SCS : 1 = Position 2 = Rear fog 3 = Ground 4 = Direction indicator 5 = Reverse 6 = Stop 7 = AUX	**Adapter cable, 7 core - Mercedes > Mercedes - complementary part for 994 003 290** 7 poled HD SCS prop (MB) <> 7 poled HD SCS socket (MB) Conductor cross-section: 7x1 mm^2 Cable type: FLRYY / PVC **300 mm** Possibility to connect all functions via the 7 poled AMP socket AUX (pin 7) is used for the license plate light in the left side of the vehicle and for the reverse gear alarm in the right side of the vehicle.	994 003 213



Plug & Play solutions for MAN

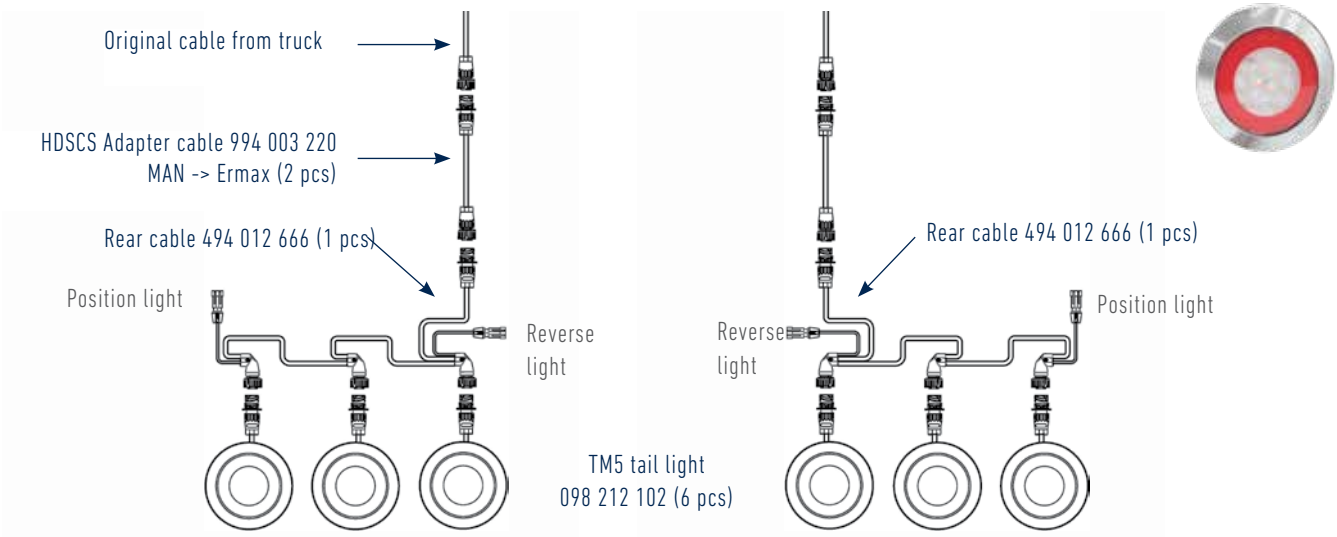
ERMAX®

MAN - Plug & Play solution TM5 LED tail light

A complete upgrading kit from ERMAX with LED tail lights and time-saving mounting - directly integrated on the vehicle

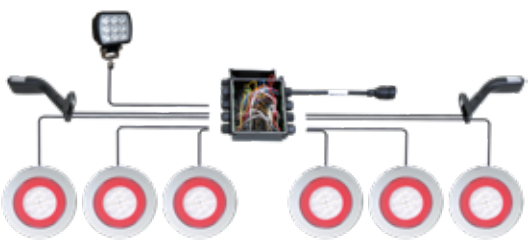
A pre-assembled cable set enables a direct plug & play mounting of plug, cables and ERMAX Eternal Light® tail lights (TM5, TM10 and TM11) – a solution with opportunity for flexible connections of e.g. position lights, reverse light and reverse gear alarm, all without opening the exsisting wiring on the truck. In addition to this high quality solution, a significant time saving on the vehicle is achieved by using this plug & play solution.

STANDARD upgrading kit with TM5 tail light 3-function — **Article no. TM091050040**



ERMAX Plug & Play upgrading kit with many advantages and opportunities

- Time-saving up to 8 hours
  - plug & play installation of plugs, cables and lights
  - Junction box with Super Seal sockets or cable glands for all lighting fuctions
- Secure and documentable installation
- No change of liability in warranty obligations, as existing wiring will not be opened
- Easy to replace damaged parts
- All fuctions are accessible with either Super Seal sockets or cable glands
- The Standard upgrading kits are packed individually in a box - Simple and effective



Time demanding installation with juction box and open end solution

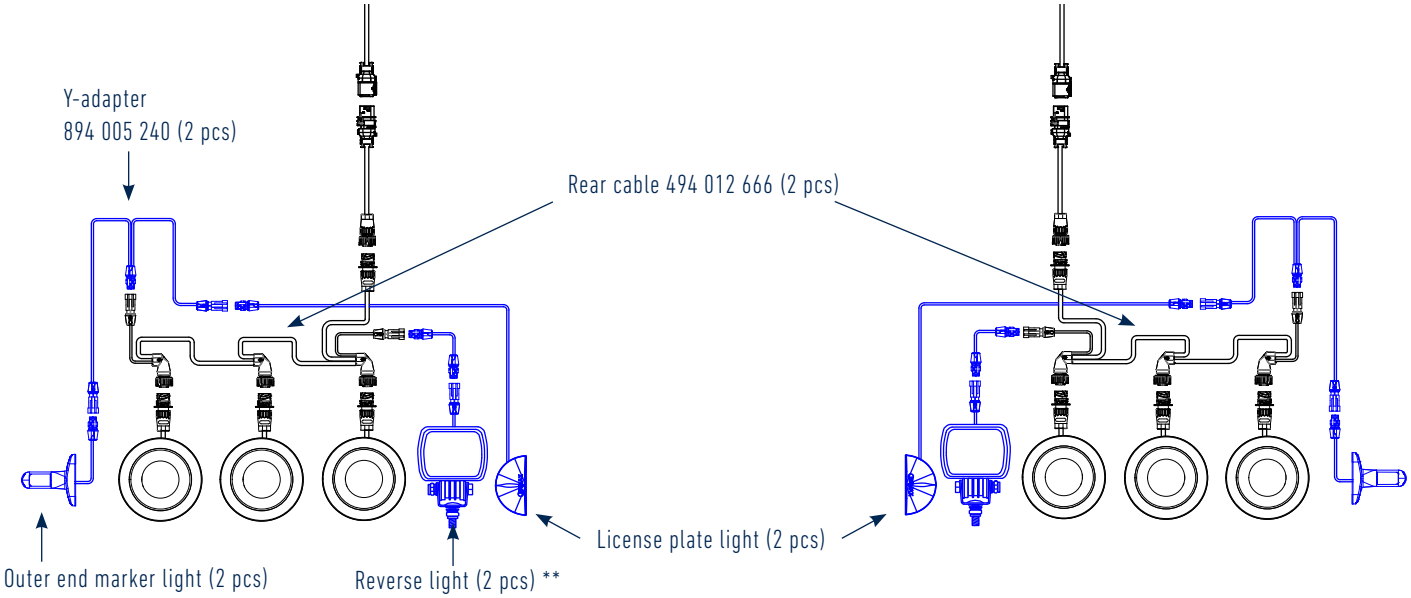
Plug & Play mounting - Time-saving

Drawing of complete lighting system with various options of functions

- Option to integrate more lighting functions if needed
- Outlet for reverse light and/or reverse gear alarm from the rear cable
- Easy and time-saving mounting, also for retrofitting

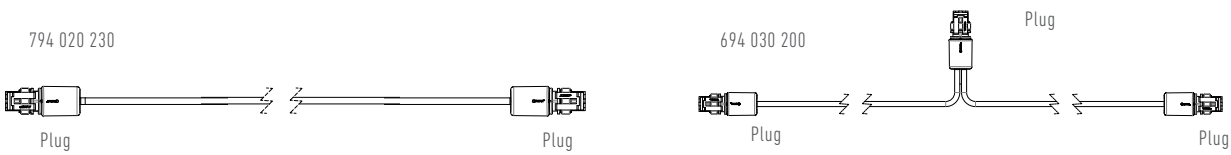
Components marked with blue on below drawing are possible options in relation to the standard kit TM091050040 as shown on previous page

Drawing of rear cable 494 012 666 with outlet for reverse light, mounted on both sides of the vehicle (without reverse gear alarm)



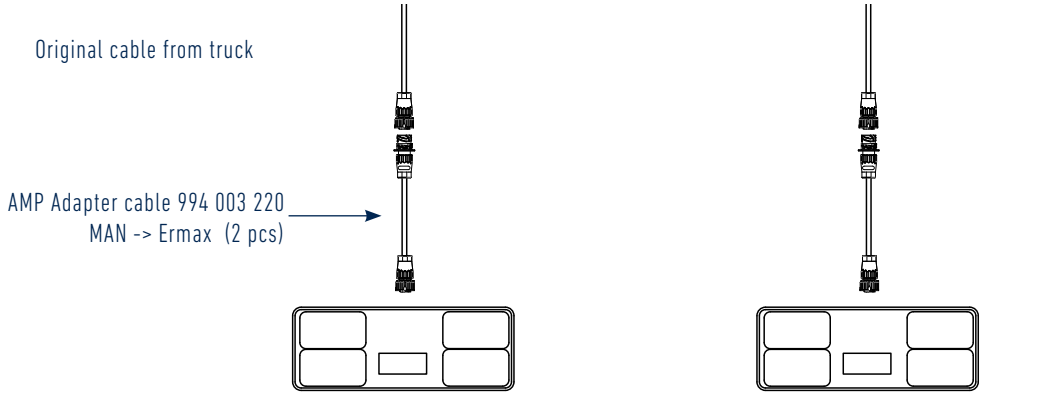
OBS** Connection of reverse lights to rear cable 494 012 666

- Is possible by applying Y-adapter 894 005 230 or by applying both the Y-adapter and extension cable (as shown on above drawing). The alternativ could be the extension cable with Super Seal plug 794 020 230 or 694 030 200 as shown below. More lenghts are available.



MAN - Plug & Play solution TM10 LED tail light

STANDARD upgrading kit with TM10 tail light 6-function — **Article no. TM091050045**

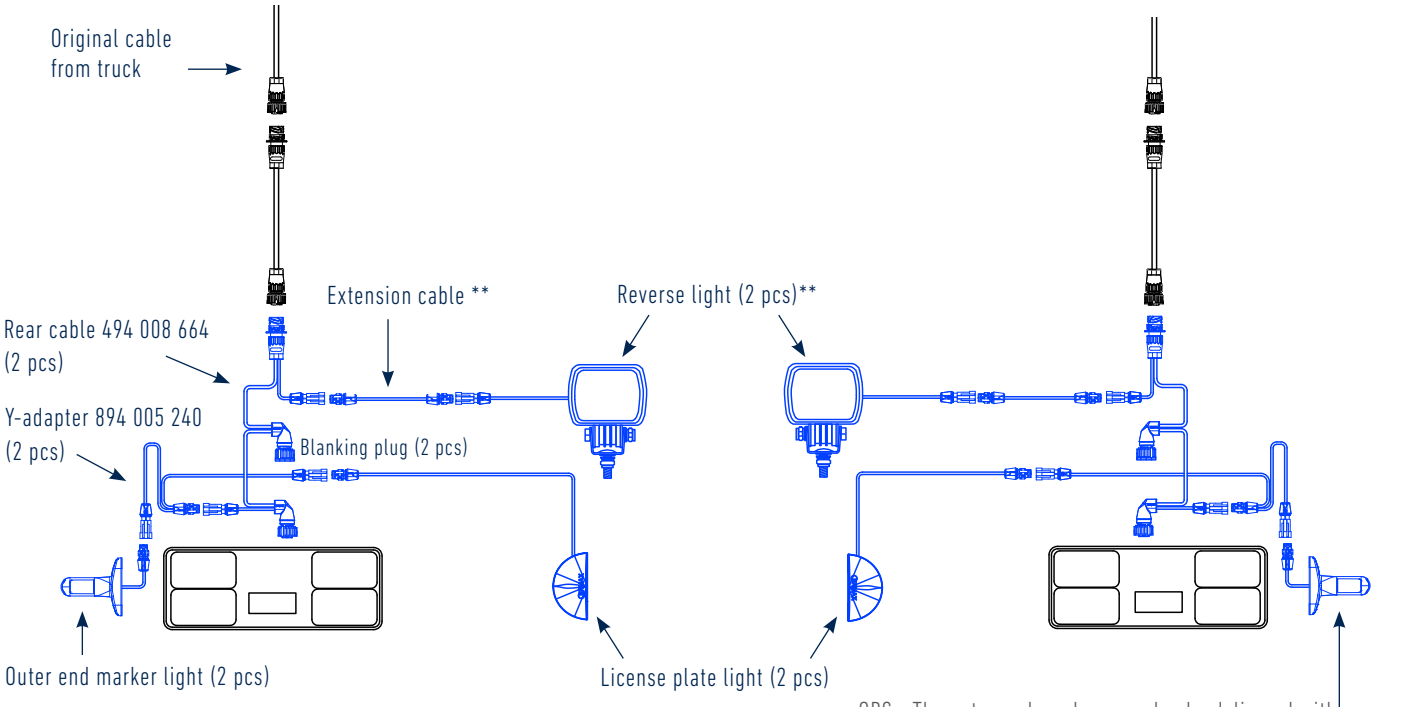


TM10 tail light
(without integrated license plate light)
098 216 509 (1 pcs)

TM10 tail light
(without integrated license plate light)
098 216 508 (1 pcs)

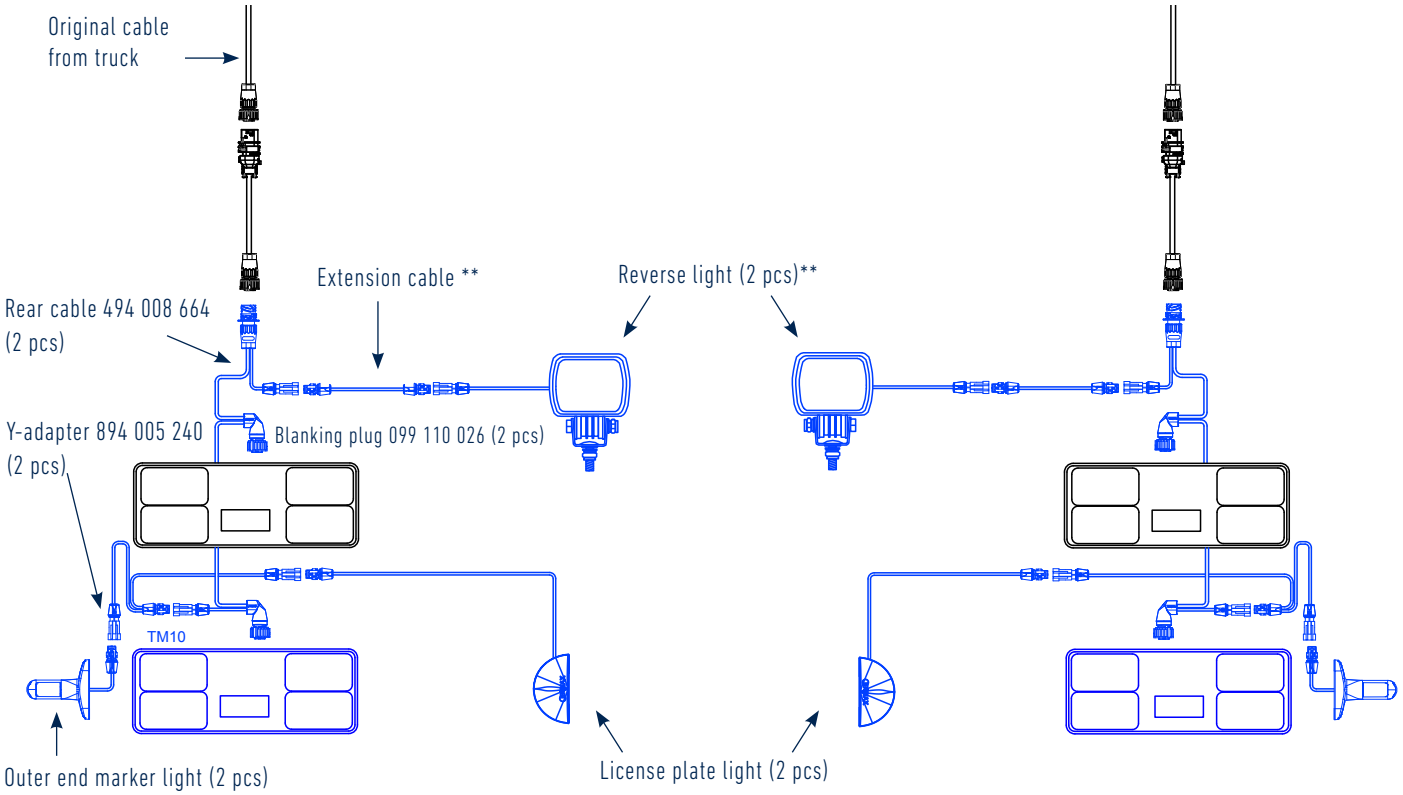
Complete lighting system Standard TM091050045 with varius options - without reverse alarm

Components marked with blue on below drawing are possible options in relation to the standard kit TM091050045 as shown above.



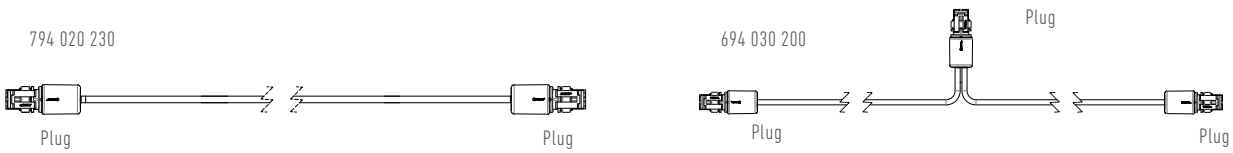
OBS - The outer end marker can also be delivered with an open end cable - which then makes it possible to connect the outer end marker in the TM10 tail light

Double lighting installation with TM10 tail lights with various options of functions



OBS** Connection of reverse cable to rear cable 494 012 664

- Is possible by applying Y-adapter 894 005 230 or by applying both the Y-adapter and extension cable (as shown on above drawing). The alternativ could be the extension cable with Super Seal plug 794 020 230 or 694 030 200 as shown below. More lenghts are available.



Lighting options for lighting systems with TM5 and TM10 tail lights

Outer end marker light LED

Long or short model
300 mm cable with Super Seal plug

Article no.	
098 241 448 (RH) 098 241 449 (LH)	098 241 218 (RH/LH)

License plate light LED

Half-round or square model
1200 mm cable with Super Seal plug

Article no.	
098 254 335	098 254 345

Reverse light LED

300 mm cable with Super Seal socket **
Approved as reverse light with 30^0 or 35^0 angling by vertical mounting *

Article no.		
098 256 255 Lumen: 650 / 300	098 174 265 Lumen: 1.600 / 1.200 *30^0 angling	098 174 275 Lumen: 2.400 / 1.800 * 35^0 angling

Reverse gear alarm

250 mm cable with
Super Seal plug

Article no.
090 450 350

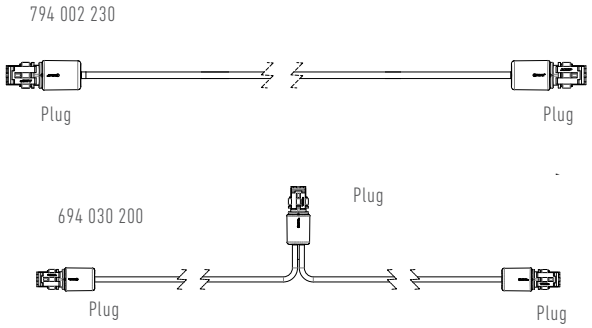
TM10 Tail light LED

The license plate light is integrated in the bottom of the tail light

Article no.
098 216 511 (LH) 098 216 510 (RH)

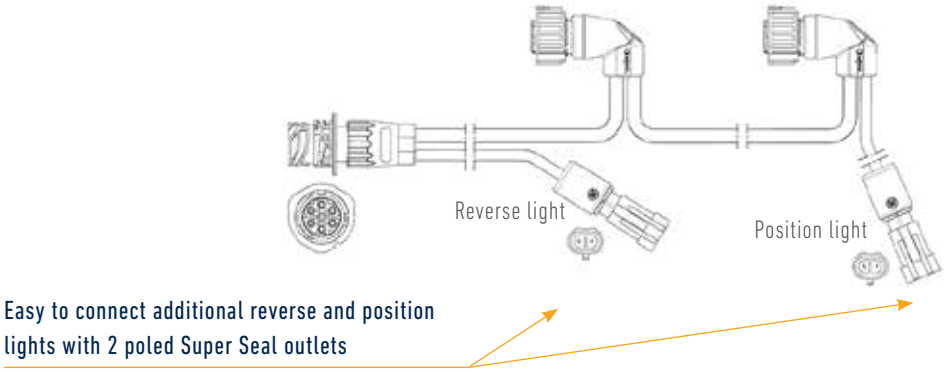
** Connection of reverse lights to rear cable 494 012 664

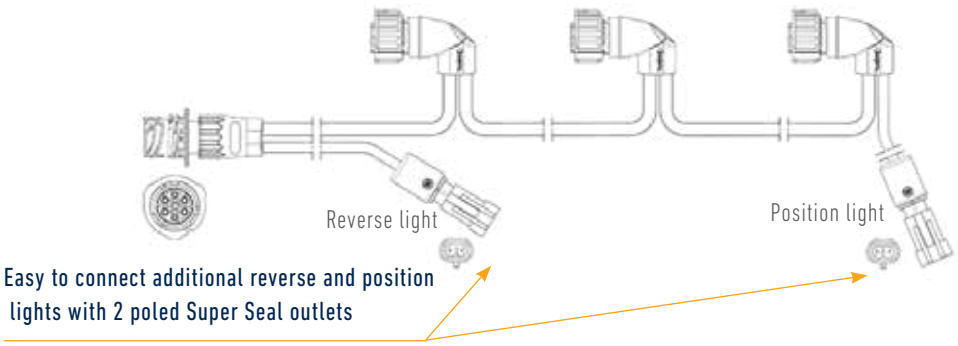
- Is possible by applying the Y-adapter 894 005 230 or extension cable with Super Seal plug 794 002 230 or 694 030 200 as shown below. More lengths are available



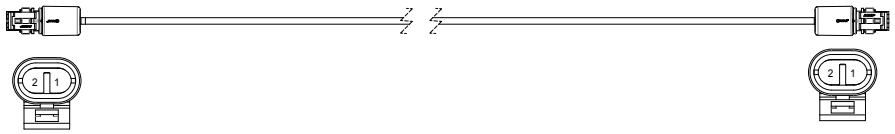
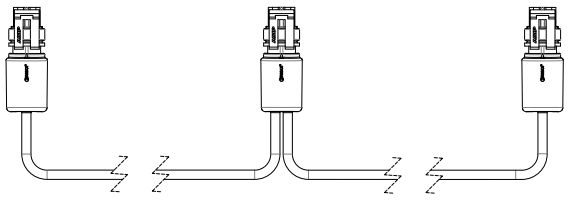
Rear cable

	Application / Description	Article no.
	Rear cable 6 core – single, chain AMP 1,5 socket, straight > 2 x AMP 1,5 plug, angled Conductor cross-section: 6x1 mm^2 / 2x1 mm^2 Cable type: FLRYY / PVC **6 core 800 mm** With 2 x 2 poled outlet with Super Seal for position light and reverse light	494 008 664
	Rear cable 6 core – single, chain AMP 1,5 socket, straight > 3 x AMP 1,5 plug, angled Conductor cross-section: 6x1 mm^2 / 2x1 mm^2 Cable type: FLRYY / PVC **6 core 1.200 mm** With 2 x 2 poled outlet with Super Seal for position light and reverse light	494 012 666

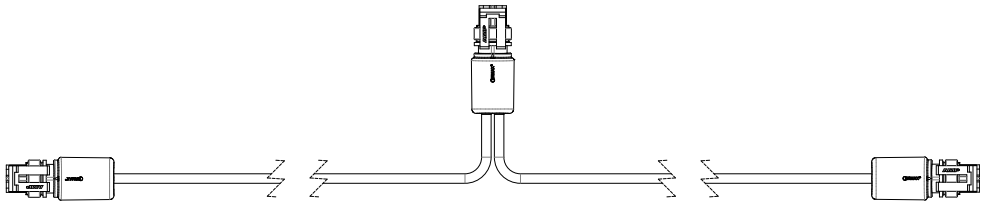
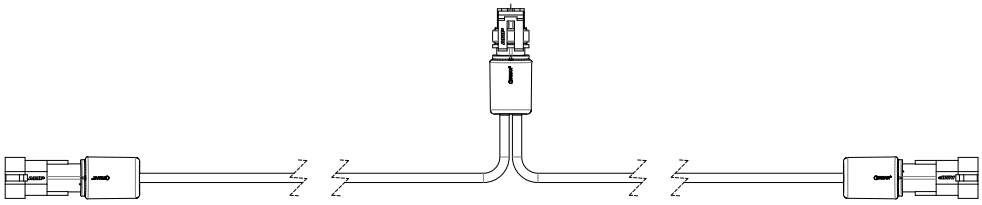




Extension cable (For additional lenghts - see section " cables universal")

	Application / Description	Article no.
	Extension cable, 2 core Super Seal plug > Super Seal plug Conductor cross-section: 2x1 mm² Cable type: FLRYY / PVC	
	200 mm	794 002 230
	500 mm	794 005 230
	1.000 mm	794 010 230
	1.500 mm	794 015 230
		
	Extension cable, 2 core – chain 1 inlet + 2 outlets with Super Seal plug Conductor cross-section: 2x0,5 mm² Cable type: FLRYY / PVC	
	3.000 mm Distance between plugs: 1x1.700 mm + 1x1.300	694 030 200
	4.200 mm Distance between plugs: 1x1.200 mm + 1x3.000	694 042 200
	5.300 mm Distance between plugs: 1x300 mm + 1x5.000	694 053 200
		

Y-adapter cable (Universal)

	Application / Description	Article no.
	Y-adapter cable, 2 core 3 x Super Seal plug Conductor cross-section: 2x1 mm² Cable type: FLRYY / PVC	
	2 x 500 mm	894 005 230
	2 x 2.000 mm	894 020 230
		
	Y-adapter cable, 2 core 1 x Super Seal plug + 2 x Super Seal socket Conductor cross-section: 2x1 mm² Cable type: FLRYY / PVC	
	2 x 500 mm	894 005 240
		
MAN connection : 1 : Ground 2 : Position 3 : Reverse 4 : Direction indicator 5 : Stop 6 : Rear fog 7 : NC	Adapter cable, 7 poled - for connection of Ermax tail lights 7 poled AMP plug (ERMAX) <> 7 poled LEAR socket (MAN) Conductor cross-section: 7x1 mm² Cable type: FLRYY / PVC 300 mm	994 003 220

Plug & Play solutions for DAF

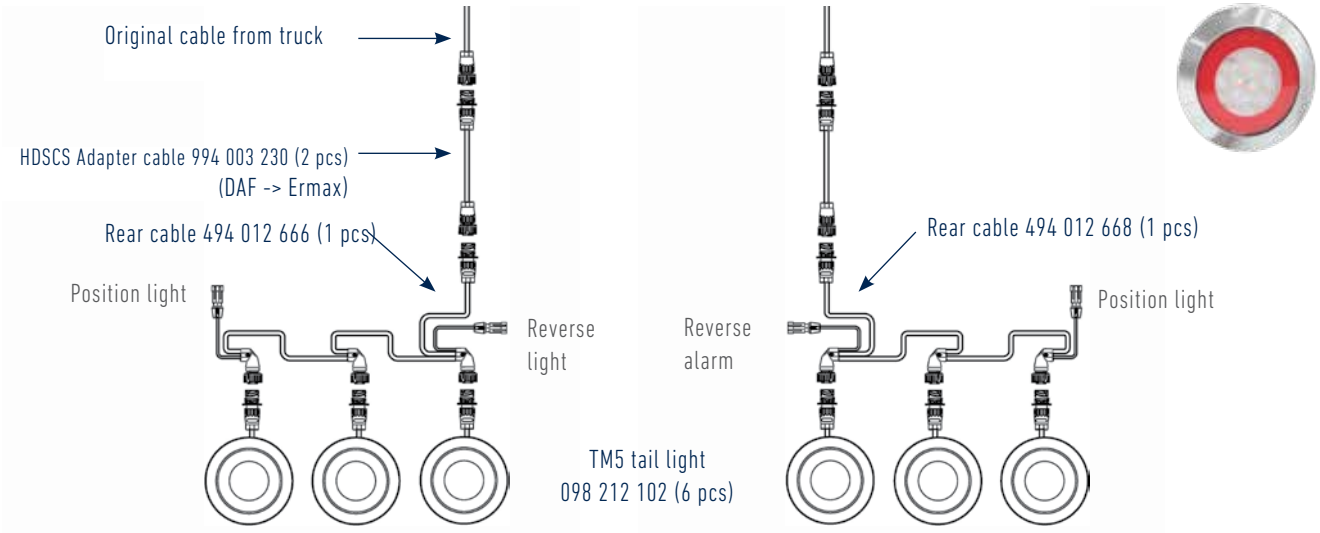
ERMAX®

DAF - Plug & Play solution TM5 LED tail light

A complete upgrading kit from ERMAX with LED tail lights and time-saving mounting - directly integrated on the vehicle

A pre-assembled cable set enables a direct plug & play mounting of plug, cables and ERMAX Eternal Light® tail lights (TM5, TM10 and TM11) – a solution with opportunity for flexible connections of e.g. position lights, reverse light and reverse gear alarm, all without opening the exsisting wiring on the truck. In addition to this high quality solution, a significant time saving on the vehicle is achieved by using this plug & play solution.

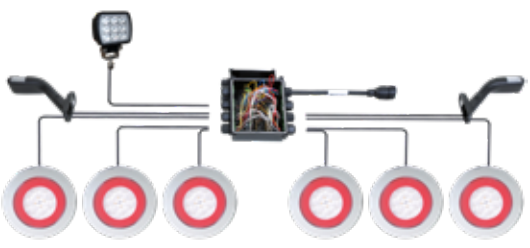
STANDARD upgrading kit with TM5 tail light 3-function — **Article no. TM091050050**



OBS - It is possible to disconnect the reverse alarm from the truck, if rear cable 494 016 667 is installed in connection with the external reverse gear alarm.

ERMAX Plug & Play upgrading kit with many advantages and opportunities

- Time-saving up to 8 hours
  - plug & play installation of plugs, cables and lights
  - Junction box with Super Seal sockets or cable glands for all lighting fuctions
- Secure and documentable installation
- No change of liability in warranty obligations, as existing wiring will not be opened
- Easy to replace damaged parts
- All fuctions are accessible with either Super Seal sockets or cable glands
- The Standard upgrading kits are packed individually in a box - Simple and effective



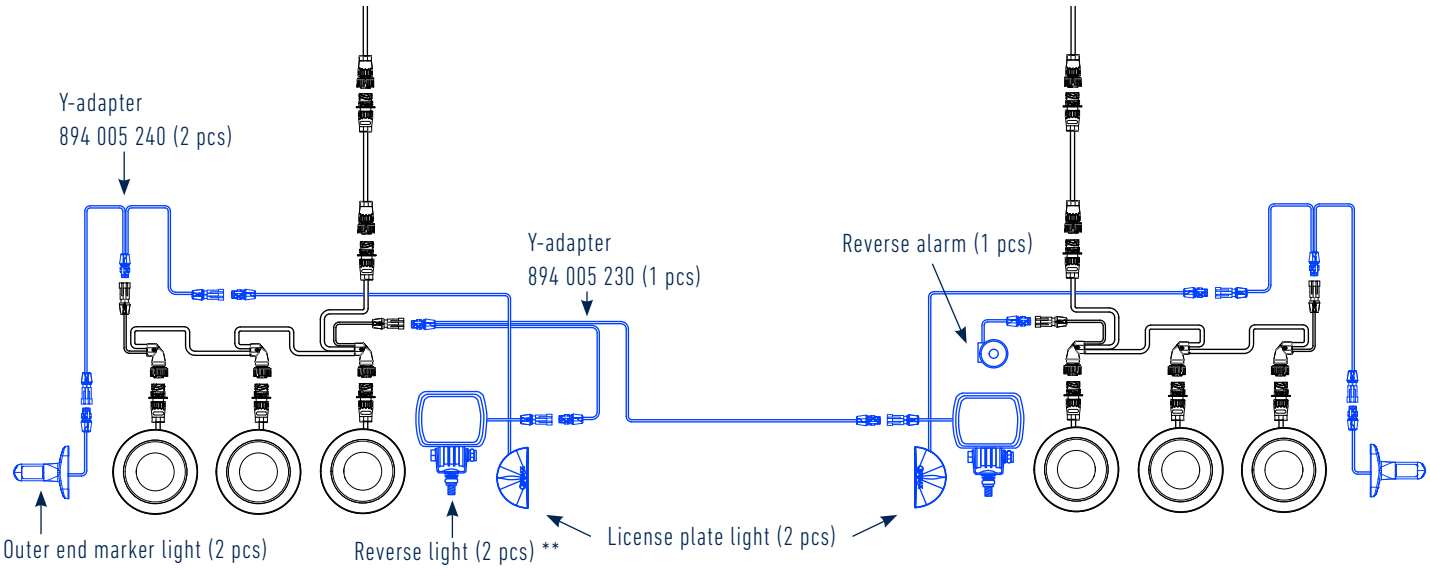
Time demanding installation with juction box and open end solution

Plug & Play mounting - Time-saving

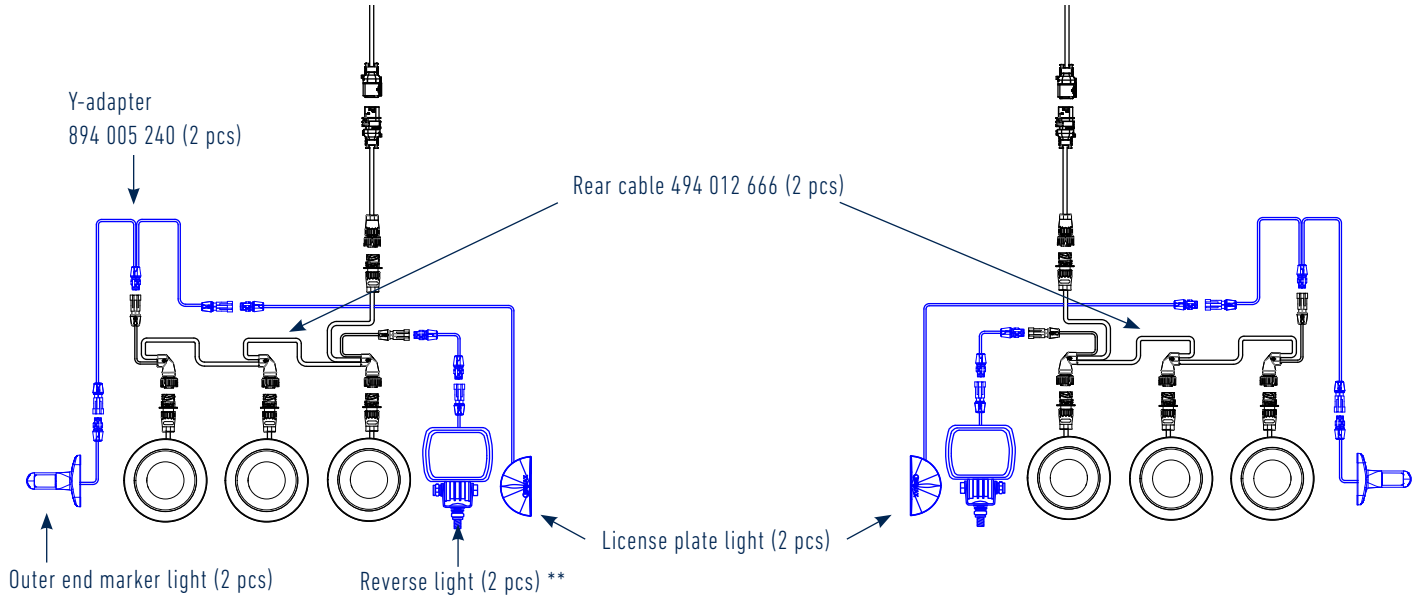
Drawing of complete lighting system with various options of functions

- Option to integrate more lighting functions if needed
- Outlet for reverse light and/or reverse gear alarm from the rear cable
- Easy and time-saving mounting, also for retrofitting

Components marked with blue on below drawing are possible options in relation to the standard kit TM091050050 as shown on previous page

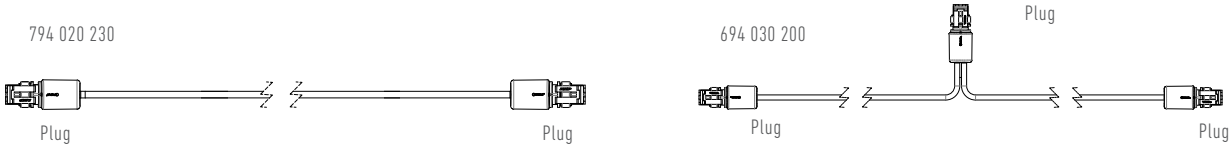


Drawing of rear cable 494 012 666 with outlet for reverse light, mounted on both sides of the vehicle (without reverse gear alarm)



OBS** Connection of reverse lights to rear cable 494 012 666

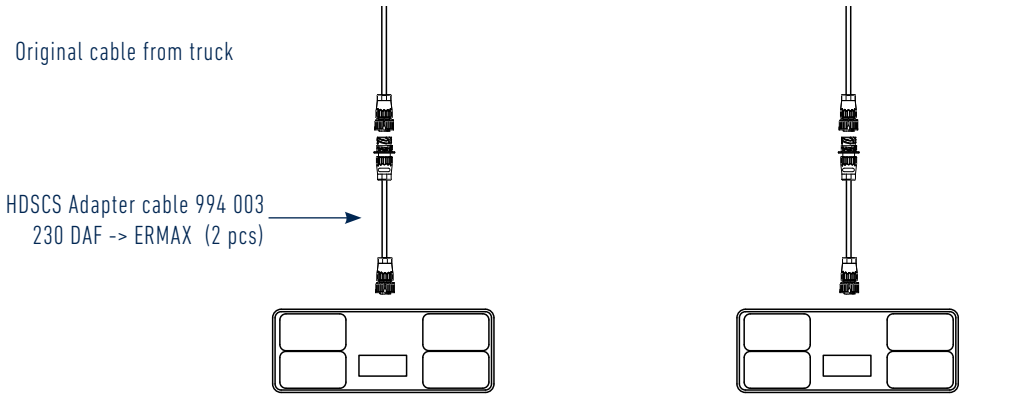
- Is possible by applying Y-adapter 894 005 230 or by applying both the Y-adapter and extension cable (as shown on above drawing). The alternativ could be the extension cable with Super Seal plug 794 020 230 or 694 030 200 as shown below. More lenghts are available.



Part numbers from original manufactures are for reference purpose only and may not be used in offers or other material

DAF - Plug & Play solution TM10 LED tail light

STANDARD upgrading kit with TM10 tail light 6-function — **Article no. TM091050055**

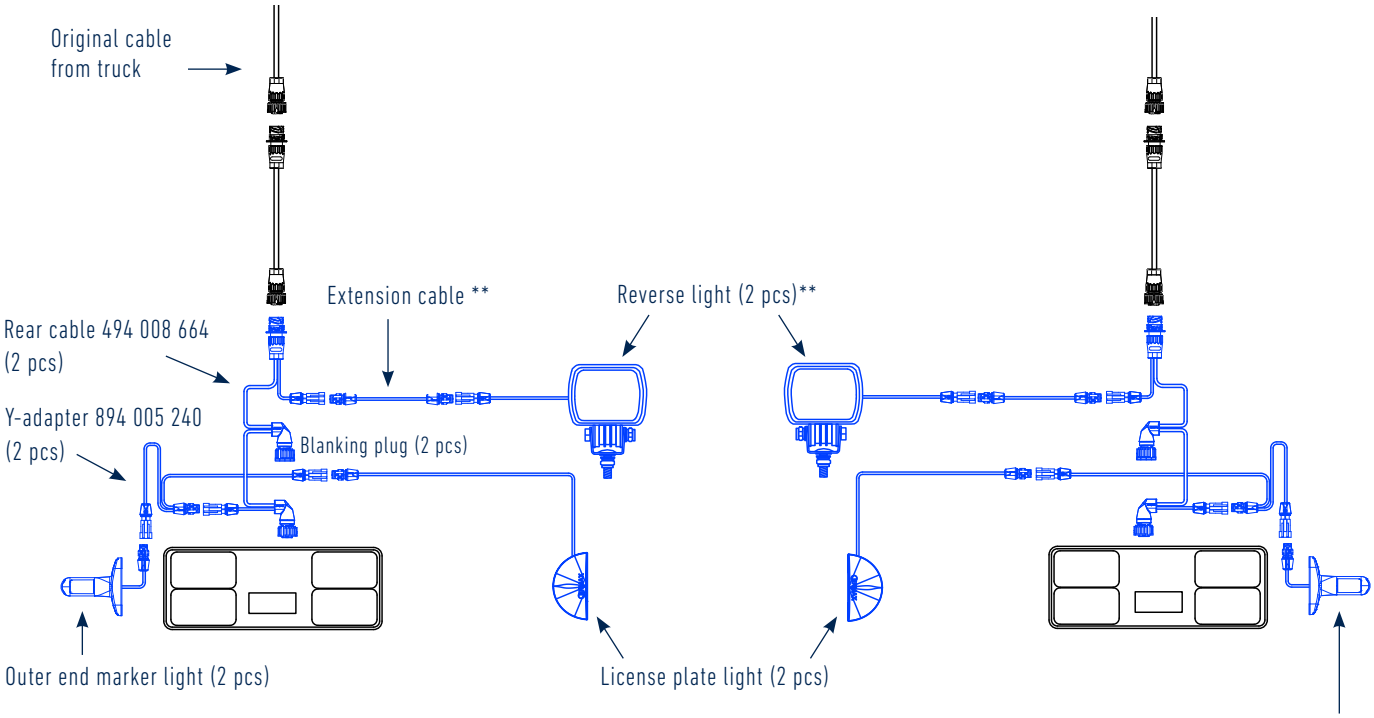


TM10 tail light
(Without integrated license plate light)
098 216 509 (1 pcs)

TM10 tail light
Without integrated license plate light)
098 216 508 (1 pcs)

Complete lighting system Standard TM091050055 with various options - without reverse gear alarm

Components marked with blue on below drawing are possible options in relation to the standard kit TM091050055 as shown above.

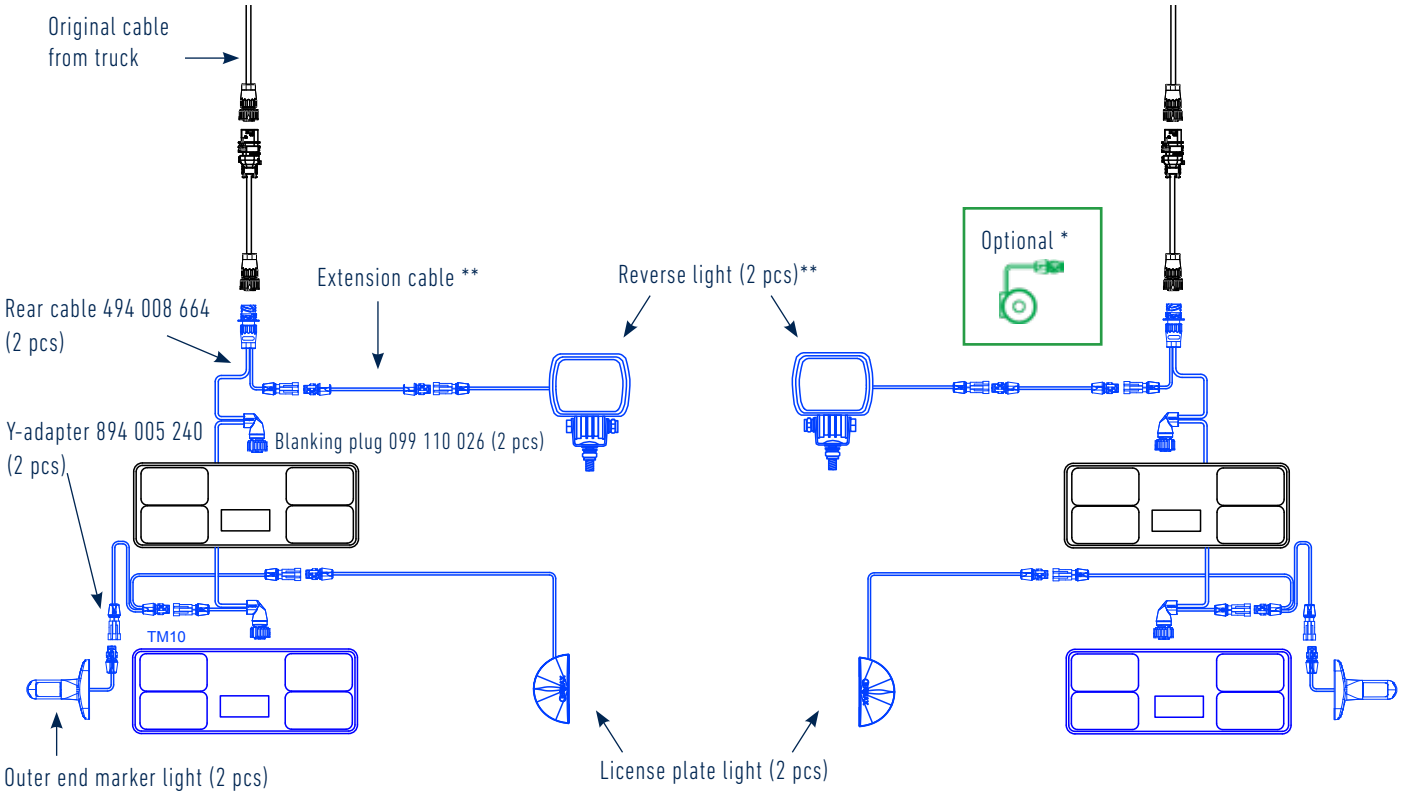


OBS - The outer end marker can also be delivered with an open end cable - which makes it possible to connect the outer end marker in the TM10 tail light

Double lighting installation with TM10 tail lights with various options of functions

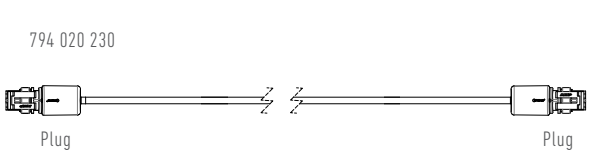
Reverse gear alarm *

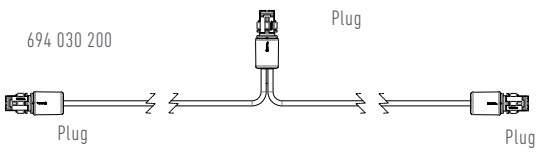
Rear cable 494 012 667 should be mounted in the right side of the vehicle, where to the reverse gear alarm should be connected, if it is required to control and mute the reverse alarm from the truck. The third lighting connection should be blinded with blanking plug 099 110 026



OBS** Connection of reverse lights to rear cable 494 012 664

- is possible by applying the Y-adapter 894 005 230 (as shown on above drawing) or by applying the extention cable with Super Seal plug 794 020 230 or 694 030 200 as shown below. More lengths are available.





Lighting options for lighting systems with TM5 and TM10 tail lights

Outer end marker light LED

Long or short model
300 mm cable with Super Seal plug

Article no.	
098 241 448 (RH) 098 241 449 (LH)	098 241 218 (RH/LH)

License plate lightLED

Half-round or square model
1200 mm cable with Super Seal plug

Article no.	
098 254 335	098 254 345

Reverse light LED

300 mm cable with Super Seal socket **
Approved as reverse light with 30^0 or 35^0 tilt vertical mounting *

Article no.		
098 256 255 Lumen: 650 / 300	098 174 265 Lumen: 1.600 / 1.200 * 30^0 angling	098 174 275 Lumen: 2.400 / 1.800 * 35^0 angling

Reverse gear alarm

250 mm cable with
Super Seal plug

Article no.
090 450 350

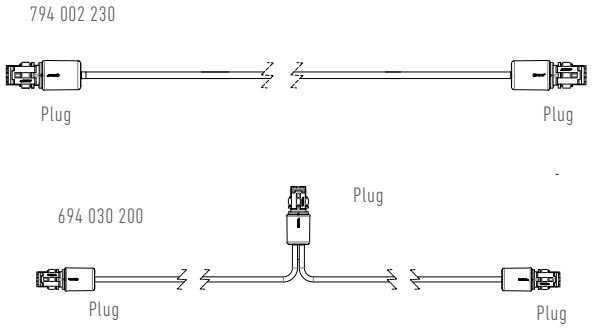
TM10 Tail light LED

License plate light is integrated in the bottom of the light

Article no.
098 216 511 (LH) 098 216 510 (RH)

** Connection of reverse lights to rear cable 494 012 664

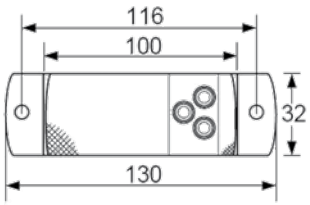
- Is possible by applying the Y-adapter 894 005 230 or extension cable with Super Seal plug 794 002 230 or 694 030 200 as shown below. More lengths are available.



Side marker light DAF

Side marker light LED 12/24V

DAF

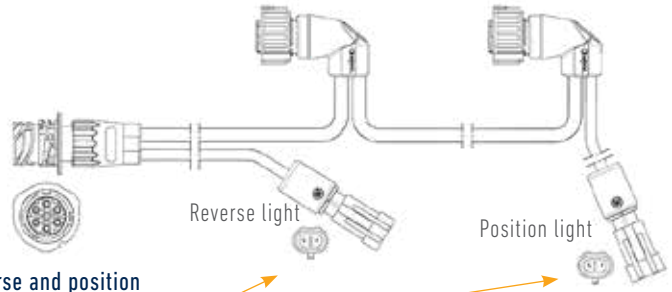


Description:	Orange lens of PMMA and plastic housing with 3 LEDs - with reflex reflector
Surface mounting:	Horizontal
Connection:	200 mm cable with 2 poled Super Seal socket
Dimension:	130 x 32 x 7 mm
Bolt distance:	90 mm
Approval:	ECE, SM1, IP67
Suitable for:	1697119
Article no.	**098 221 397**

Part numbers from original manufactures are for reference purpose only and may not be used in offers or other material

Rear cable

	Application / Description	Article no.
	Rear cable 6 core – single, chain 7-polet AMP 1,5 socket, straight > 2 x AMP 1,5 plug, angled Conductor cross-section: 6x1 mm² / 2x1 mm² Cable type: FLRYY / PVC	
	6 core 800 mm With 2 x 2 poled outlet with Super Seal for position light and reverse light	494 008 664

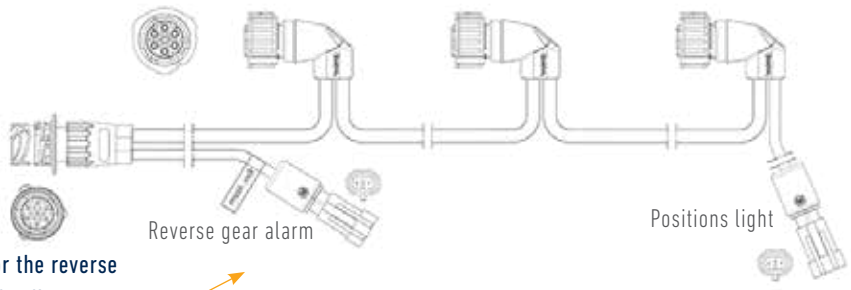


Easy to connect additional reverse and position lights with 2 poled Super Seal outlets

	Rear cable 6 core – single, chain 7-polet AMP 1,5 socket, straight > 3 x AMP 1,5 plug, angled Conductor cross-section: 6x1 mm² / 2x1 mm² Cable type: FLRYY / PVC	
	6 core 1.200 mm With 2 x 2 poled outlet with Super Seal for position light and reverse light	494 012 666

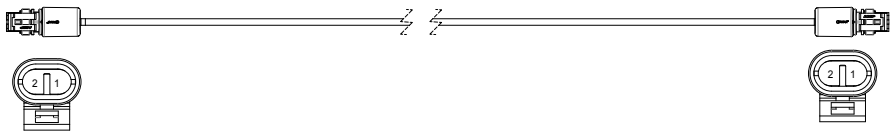
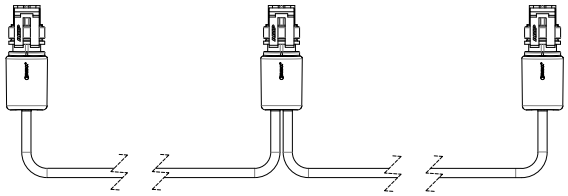
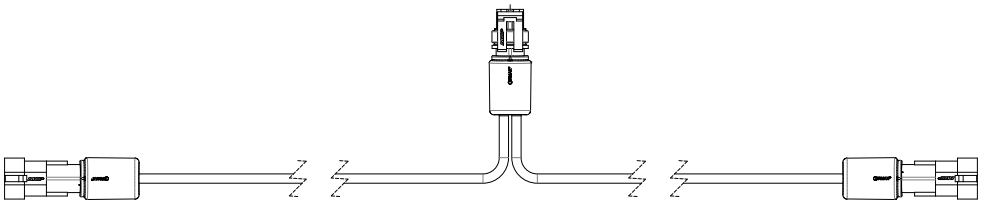
Easy to connect additional reverse and position lights with 2 poled Super Seal outlets

	6 core 1.200 mm (DAF) With 2 x 2 poled outlet with Super Seal for position light and reverse alarm pin no. 7 in the 7 poled AMP plug in the reverse alarm	494 012 668



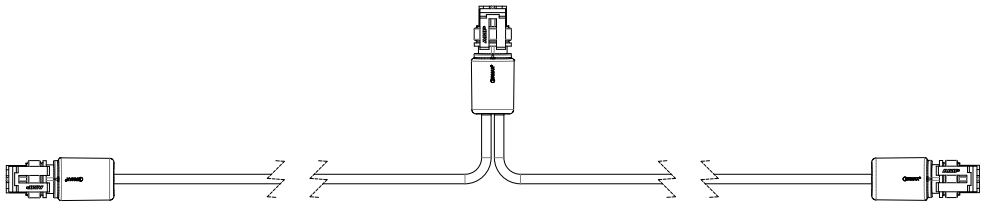
Possibility for outlet for the reverse gear alarm, which can be disconnected manually from the truck

Extension cable / Y-adapter cable (Universal) (For additional lenghts - see section " cables universal")

	Application / Description	Article no.
	Extension cable, 2 core Super Seal plug > Super Seal plug Conductor cross-section: 2x1 mm² Cable type: FLRYY / PVC	
	200 mm	794 002 230
	500 mm	794 005 230
	1.000 mm	794 010 230
	1.500 mm	794 015 230
		
	Extension cable, 2 core – chain 1 inlet + 2 outlets with Super Seal plug Conductor cross-section: 2x0,5 mm² Cable type: FLRYY / PVC	
	3.000 mm Distance between plugs: 1x1.700 mm + 1x1.300	694 030 200
	4.200 mm Distance between plugs: 1x1.200 mm + 1x3.000	694 042 200
	5.300 mm Distance between plugs: 1x300 mm + 1x5.000	694 053 200
		
	Y-adapter cable, 2 core 1 x Super Seal plug + 2 x Super Seal socket Conductor cross-section: 2x1 mm² Cable type: FLRYY / PVC	
	2 x 500 mm	894 005 240
		

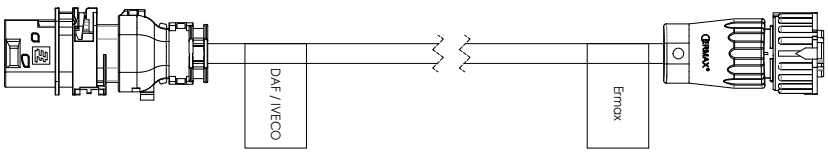
Y-adapter cable (Universal)

	Application / Description	Article no.
	Y-adapter cable, 2 core 3 x Super Seal plug Conductor cross-section: 2x1 mm² Cable type: FLRYY / PVC	
	2 x 500 mm	894 005 230
	2 x 2.000 mm	894 020 230



Adapter-cable DAF

	Application / Description	Article no.
DAF connection : 1 : Ground 2 : Aux (Right applies as gound for reverse gear alarm) 3 : Not Connected 4 : Rear fog 5 : Position 6 : Reverse 7 : Direction indicator 8 : Stop	**Adaptercable, 7-polet - for connection af Ermax tail lightr** 7 poled AMP plug (Ermax) <> 8 poled HDSCS socket (DAF) Conductor cross-section: 7x1 mm² Cable type: FLRYY / PVC	
	300 mm	994 003 230



Plug & Play solutions for IVECO

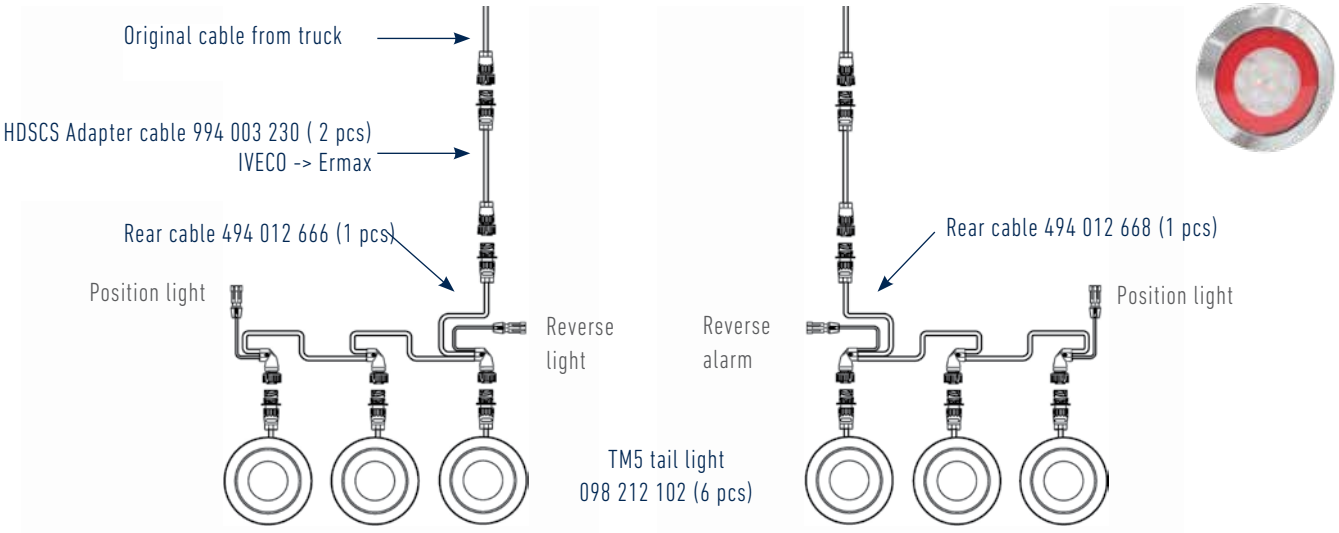
ERMAX®

IVECO - Plug & Play solution TM5 LED tail light

A complete upgrading kit from ERMAX with LED tail lights and time-saving mounting - directly integrated on the vehicle

A pre-assembled cable set enables a direct plug & play mounting of plug, cables and ERMAX Eternal Light® tail lights (TM5, TM10 and TM11) – a solution with opportunity for flexible connections of e.g. position lights, reverse light and reverse gear alarm, all without opening the exsisting wiring on the truck. In addition to this high quality solution, a significant time saving on the vehicle is achieved by using this plug & play solution.

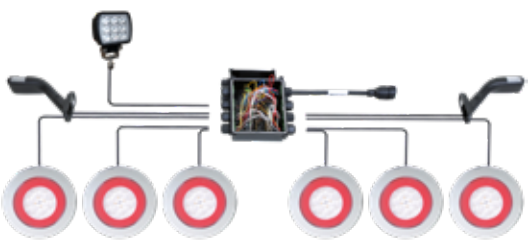
STANDARD upgrading kit with TM5 tail light 3-function — **Article no. TM091050050**



OBS - It is possible to disconnect the reverse a gear alarm from the truck, if rear cable 494 016 667 is installed in connection with the external reverse gear alarm.

ERMAX Plug & Play upgrading kit with mnay advantages and opportunities

- Time-saving up to 8 hours
  - plug & play installation of plugs, cables and lights
  - Junction box with Super Seal sockets or cable glands for all lighting fuctions
- Secure and documentable installation
- No change of liability in warranty obligations, as existing wiring will not be opened
- Easy to replace damaged parts
- All fuctions are accessible with either Super Seal sockets or cable glands
- The Standard upgrading kits are packed individually in a box - Simple and effective



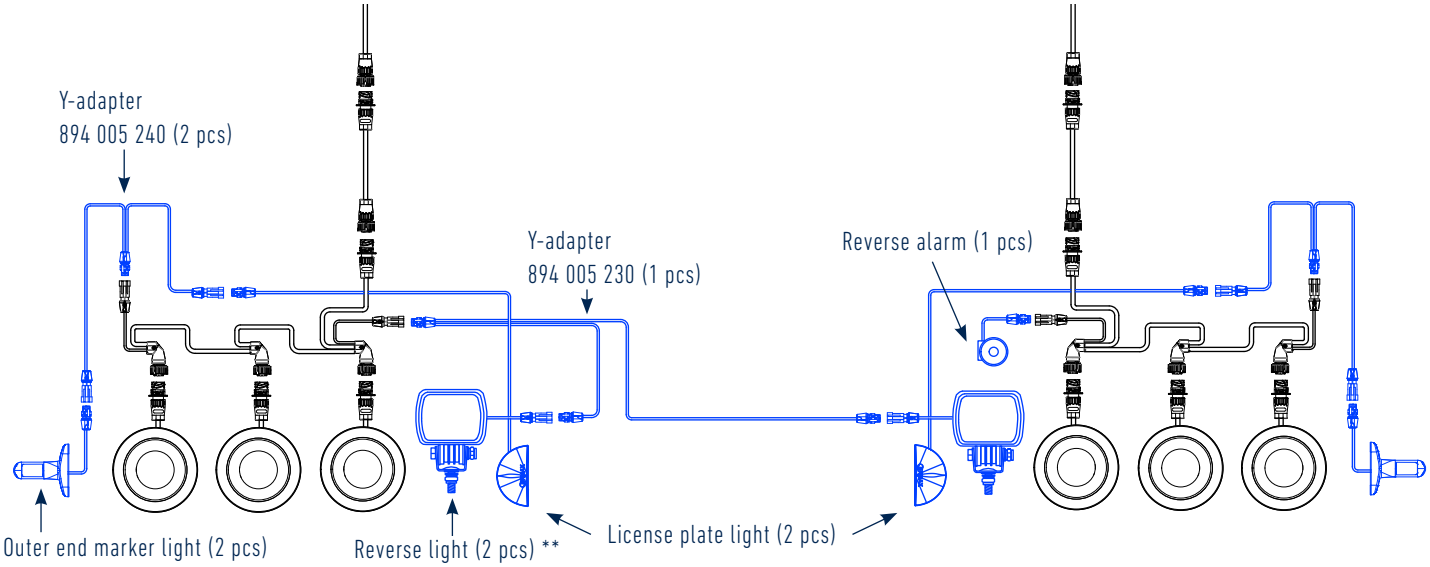
Time demanding installation with juction box and open end solution

Plug & Play mounting - Time-saving

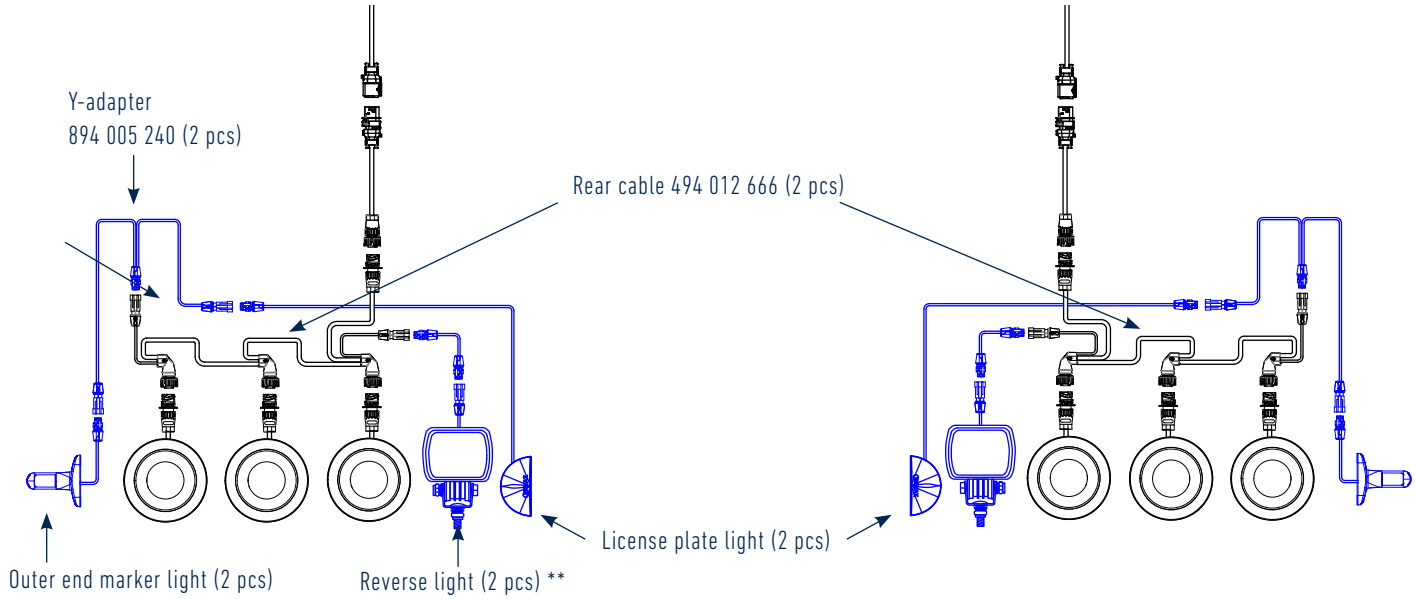
Drawing of complete lighting system with various options of functions

- Option to integrate more lighting functions if needed
- Outlet for reverse light and/or reverse gear alarm from the rear cable
- Easy and time-saving mounting, also for retrofitting

Components marked with blue on below drawing are possible options in relation to the standard kit TM091050050 as shown on previous page

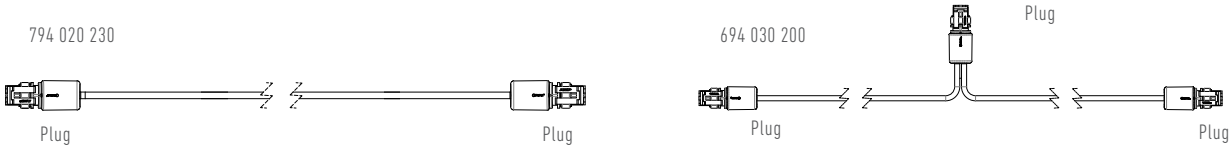


Drawing of rear cable 494 012 666 with outlet for reverse light, mounted on both sides of the vehicle (without reverse gear alarm)



OBS** Connection of reverse lights to rear cable 494 012 666

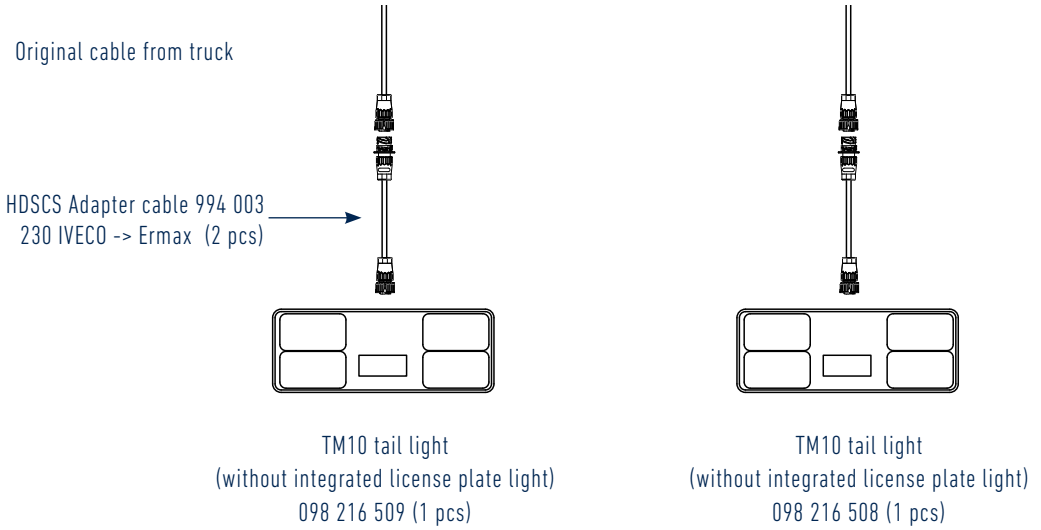
- Is possible by applying Y-adapter 894 005 230 or by applying both the Y-adapter and extension cable (as shown on above drawing). The alternativ could be the extension cable with Super Seal plug 794 020 230 or 694 030 200 as shown below. More lenghts are available.



Part numbers from original manufactures are for reference purpose only and may not be used in offers or other material

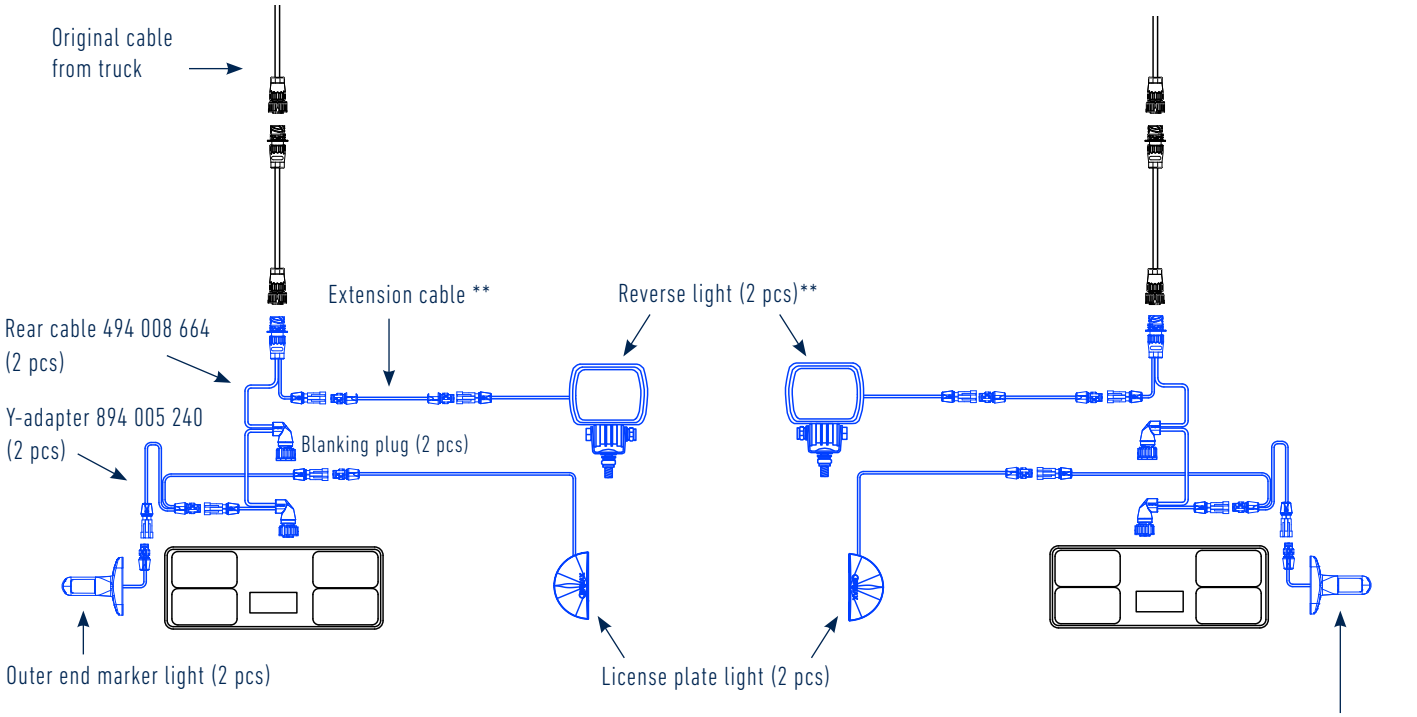
IVECO - Plug & Play solution TM10 LED tail light

STANDARD upgrading kit with TM10 tail light 6-function — **Article no. TM091050055**



Complete lighting system Standard TM091050055 with various options - without reverse gear alarm

Components marked with blue on below drawing are possible options in relation to the standard kit TM091050055 as shown above.

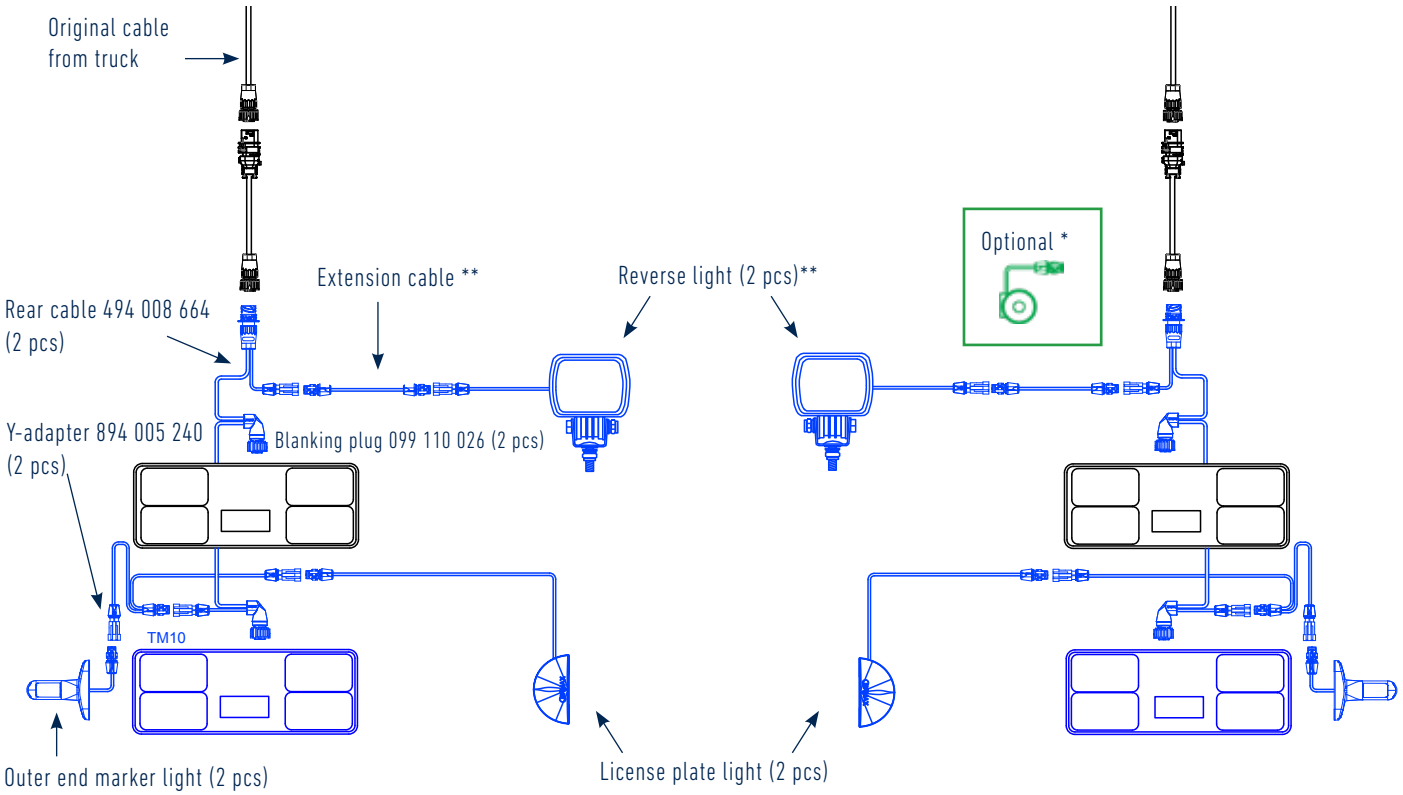


OBS - The outer end marker can also be delivered with an open end cable - which makes it possible to connect the outer end marker in the TM10 tail light

Drawing of complete lighting system with various options of functions

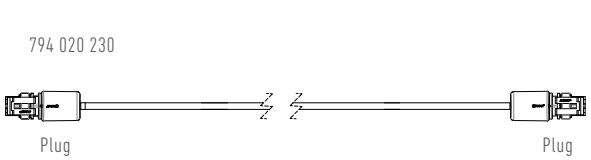
Reverse gear alarm *

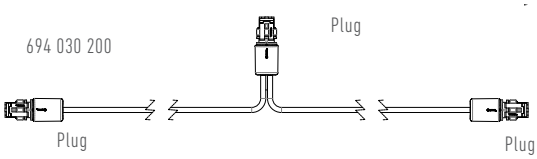
Rear cable 494 012 667 should be mounted in the right side of the vehicle, where to the reverse gear alarm should be connected, if it is required to control and mute the reverse alarm from the truck. The third lighting connection should be blinded with blanking plug 099 110 026



OBS** Connection of reverse lights to rear cable 494 012 664

- is possible by applying the Y-adapter 894 005 230 (as shown on above drawing) or by applying the extention cable with Super Seal plug 794 020 230 or 694 030 200 as shown below. More lengths are available.





Part numbers from original manufactures are for reference purpose only and may not be used in offers or other material

Lighting options for lighting systems with TM5 and TM10 tail lights

Outer end marker light LED

Long or short model
300 mm cable with Super Seal plug

Article no.	
098 241 448 (RH) 098 241 449 (LH)	098 241 218 (RH/LH)

License plate light LED

Half-round or square model
1200 mm cable with Super Seal plug

Article no.	
098 254 335	098 254 345

Reverse light LED

300 mm cable with Super Seal socket **
Approved as reverse light with 30^0 or 35^0 angling by vertical mounting *

Article no.		
098 256 255 Lumen: 650 / 300	098 174 265 Lumen: 1.600 / 1.200 * 30^0 angling	098 174 275 Lumen: 2.400 / 1.800 * 35^0 angling

Reverse gear alarm

250 mm cable with
Super Seal plug

Article no.
090 450 350

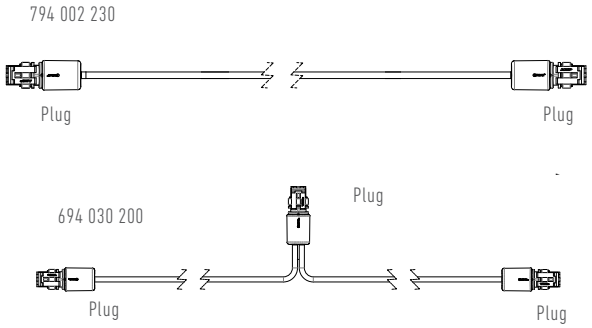
TM10 Tail light LED

License plate light integrated in
the bottom of the tail light

Article no.
098 216 511 (LH) 098 216 510 (RH)

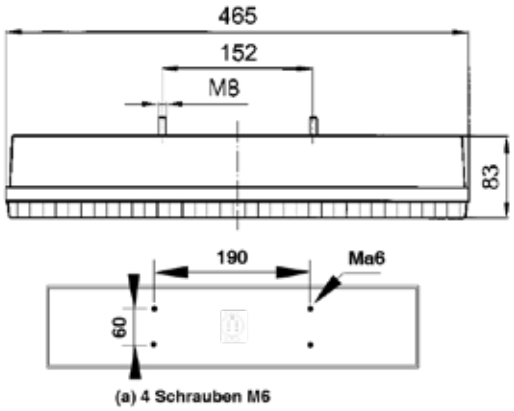
** Connection of reverse lights to rear cable 494 012 664

- Is possible by applying the Y-adapter 894 005 230 or extension cable with Super Seal plug 794 002 230 or 694 030 200 as shown below. More lengths are available.



Tail lights, bulb

E EMC



Connection:

A

8 poled socket
with 6 active pins

B

7 poled socket
with 6 active pins

2 bulb holders with virabtion absorber
Lens: PMMA
Housing: Black plastic
Dimensioner: 465 x 130 x 83 mm
Bolt distance: 152 mm
IP Rating: IP64

Functions

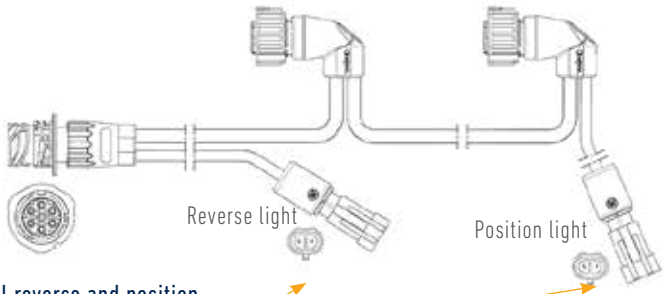
Application	Lens (spare part)	Left ← Right →	Position Stop Dir. indicator	Reverse	Rear fog	Side marker	License plate	Square reflex reflector	Connection	Suitable for	Article no.
Iveco	098 292 793	← →	✓	✓	✓	✓		✓	A	-	098 212 953
Iveco	098 292 793	← →	✓	✓	✓	✓	✓	✓	A	-	098 212 954
Iveco	098 292 793	→	✓	✓	✓	✓		✓	B	9946 3242	098 212 961
Iveco	098 292 793	←	✓	✓	✓	✓	✓	✓	B	9946 3244	098 212 962

Spare parts

Side marker insert	098 292 959

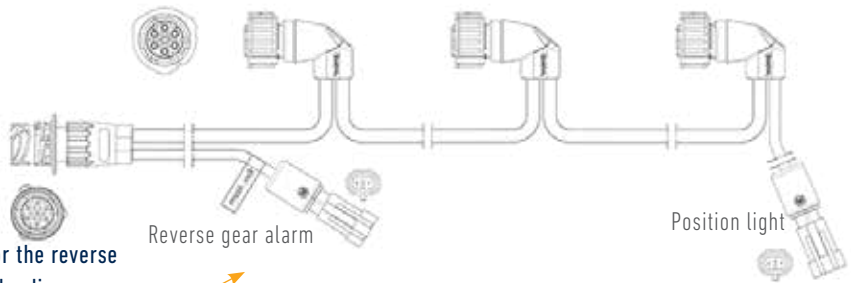
Rear cable

	Application / Description	Article no.
	Rear cable 6 core – single, chain AMP 1,5 socket, straight > 2 x AMP 1,5 plug, angled Conductor cross-section: 6x1 mm² / 2x1 mm² Cable type: FLRYY / PVC **6 core 800 mm** With 2 x 2 poled outlet with Super Seal for position light and reverse light	494 008 664
	Rear cable 6 core – single, chain AMP 1,5 socket, straight > 3 x AMP 1,5 plug, angled Conductor cross-section: 6x1 mm² / 2x1 mm² Cable type: FLRYY / PVC **6 core 1.200 mm** With 2 x 2 poled outlet with Super Seal for position light and reverse light	494 012 666
	6 core 1.200 mm (IVECO) With 2 x 2 poled outlet with Super Seal for position light and reverse light pin no. 7 in the 7 poled AMP plug is for the reverse gear alarm	494 012 668



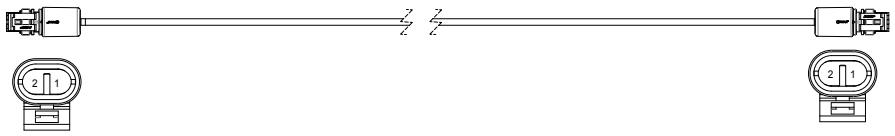
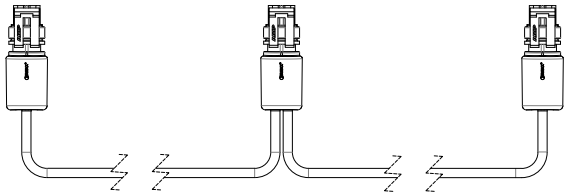
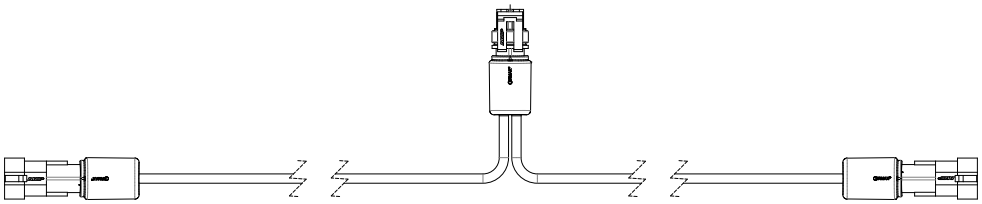
Easy to connect additional reverse and position lights with 2 poled Super Seal outlets

Easy to connect additional reverse and position lights with 2 poled Super Seal outlets



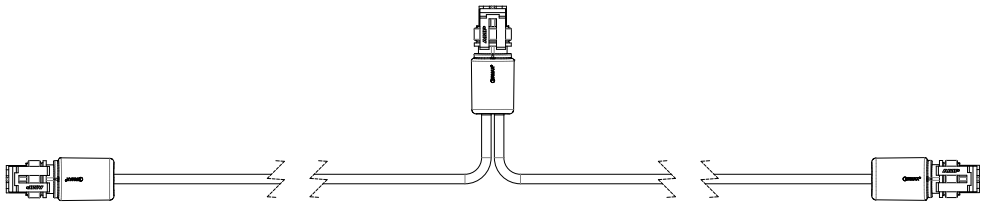
Possibility for outlet for the reverse gear alarm, which can be disconnected manually from the truck

Extension cable / Y-adapter cable (Universal) (For additional lenghts - see section " cables universal")

	Application / Description	Article no.
	Extension cable, 2 core Super Seal plug > Super Seal plug Conductor cross-section: 2x1 mm² Cable type: FLRYY / PVC	
	200 mm	794 002 230
	500 mm	794 005 230
	1.000 mm	794 010 230
	1.500 mm	794 015 230
		
	Extension cable, 2 core – chain 1 inlet + 2 outlets with Super Seal plug Conductor cross-section: 2x0,5 mm² Cable type: FLRYY / PVC	
	3.000 mm Distance between plugs: 1x1.700 mm + 1x1.300	694 030 200
	4.200 mm Distance between plugs: 1x1.200 mm + 1x3.000	694 042 200
	5.300 mm Distance between plugs: 1x300 mm + 1x5.000	694 053 200
		
	Y-adapter cable, 2 core 1 x Super Seal plug + 2 x Super Seal socket Conductor cross-section: 2x1 mm² Cable type: FLRYY / PVC	
	2 x 500 mm	894 005 240
		

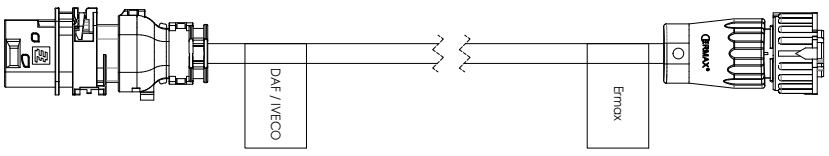
Y-adapter cable (Universal)

	Application / Description	Article no.
	Y-adapter cable, 2 core 3 x Super Seal plug Conductor cross-section: 2x1 mm^2 Cable type: FLRYY / PVC	
	2 x 500 mm	894 005 230
	2 x 2.000 mm	894 020 230



Adapter cable IVECO

	Application / Description	Article no.
IVECO connection : 1 : Ground 2 : Aux (Right should be used as ground for reverse alarm) 3 : Not Connected 4 : Rear fog 5 : Position 6 : Reverse 7 : Direction indicator 8 : Stop	**Adapter cable, 7 core - for connection af ERMAX tail light** 7 poled AMP plug (Ermax) <> 8 poled HDSCS socket (IVECO) Conductor cross-section: 7x1 mm^2 Cable type: FLRYY / PVC	
	300 mm	994 003 220



Time-saving standard solutions

Inspiration & guidance

Lighting / LED failure control unit

ERMAX®

TM5 tail light and "Kit-Kat" position lights

- "Kit-Kat" position lights in a modern slim set-up without visible screws.

"Kit-Kat" position light

Warning light with Super Seal socket

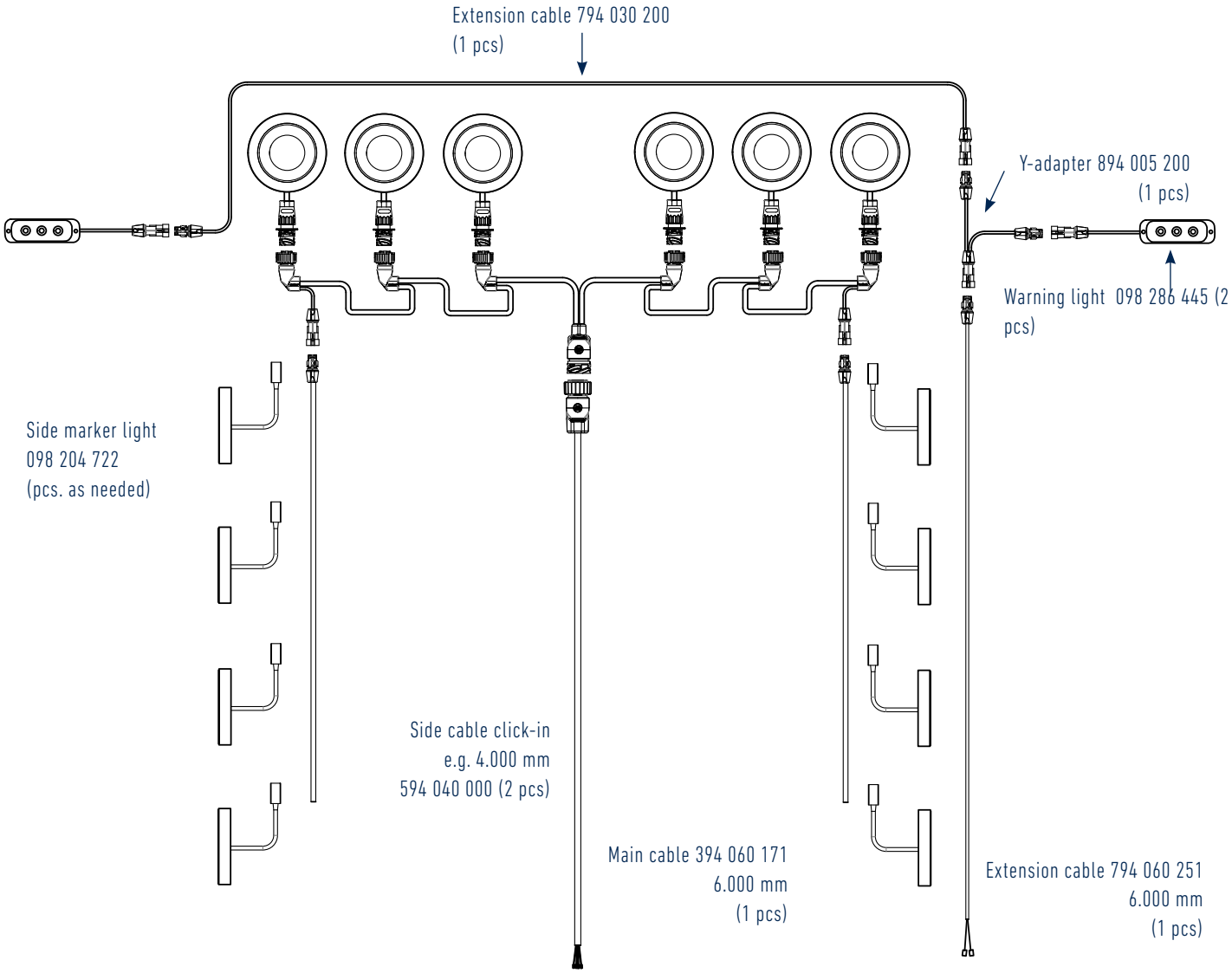
TM5 Tail light:
Eternal Light® technology
Lens: Impact resistant polycarbonate

Warning light with 3 or 12 LEDs
With Super Seal socket
- Time-saving og easy mounting

Plug & Play - Easy and time-saving

Simple and easy mounting

- Time-saving up to 8 hours
  - plug & play mounting of plugs, cables and lights
  - connection of extenstion cable 794 060 251 to existing wiring
- Mounting of position light with Super Seal side cable
- Flexible and fast



"Kit-Kat" sider marker and position lights
- Mounting without visible screws
- 2 LEDs
- With reflex reflector

See all variants and part numbers at the end of this section

Part numbers from original manufactures are for reference purpose only and may not be used in offers or other material

TM15 tail light and "Slim-line" position lights

- Slim-Line position lights in a modern narrow set-up with 6 LEDs

"Slim-Line" position light

Warning light with Super Seal socket

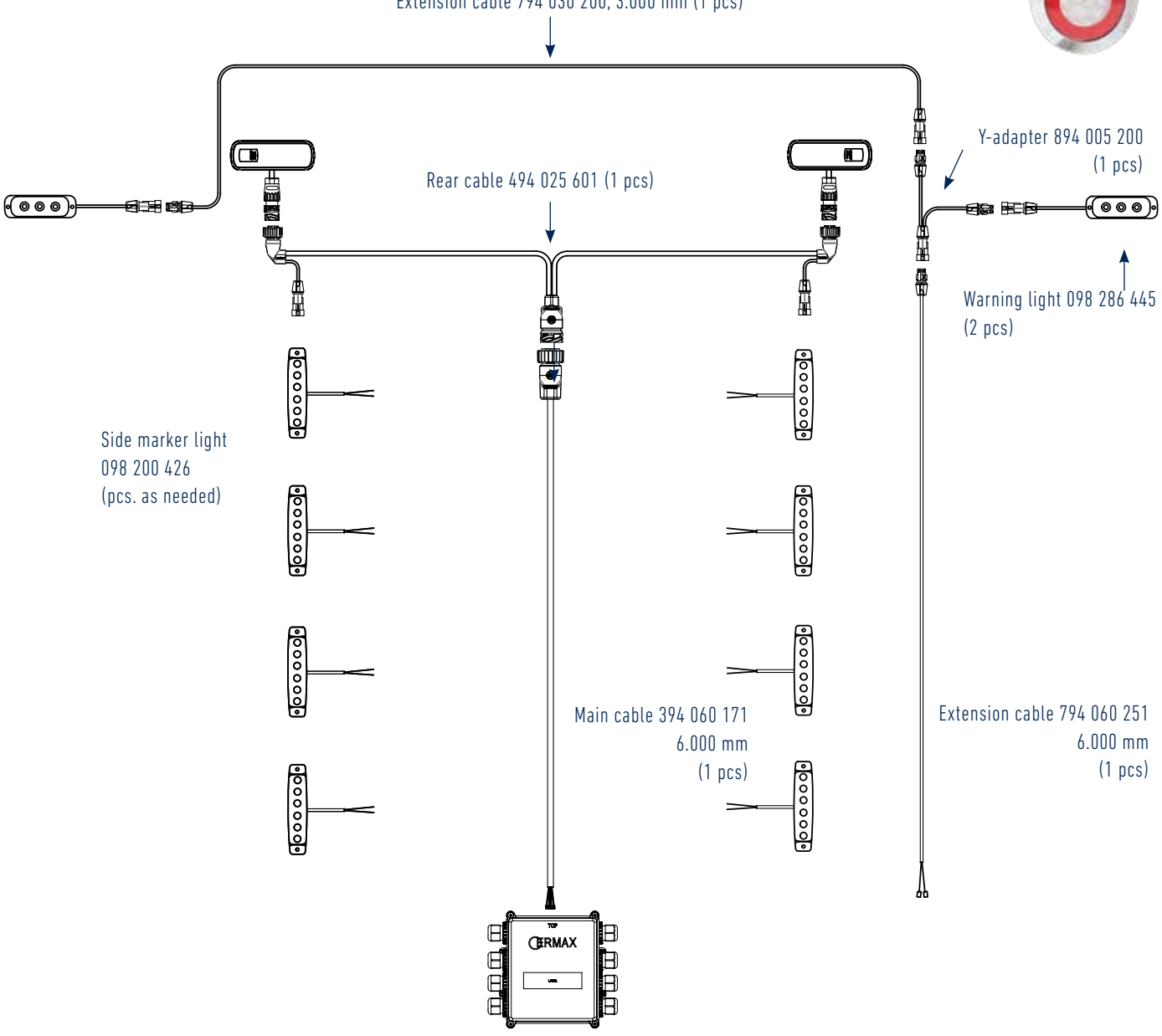
TM15 Tail light:
Dynamic direction indicator light
Lens: impact resistant polycarbonate

Warning light with 3 or 12 LEDs
With Super Seal socket
- Time-saving og easy mounting

Open end mounting of "Slim-line" position lights

- Simple and easy mounting
- Time-saving up to 4 hours
  - plug & play mounting of plugs, cables and lights
  - connection of extenstion cable 794 060 251 to existing wiring
- Mounting of position light with open end in junction box

Same configuration is possible with TM5 tail light



"SLIM-LINE" sider marker and position lights
- Small modern slim-line light
- 6 LEDs
- 12/24V

See all variants and part numbers at the end of this section

Part numbers from original manufactures are for reference purpose only and may not be used in offers or other material

TM5 tail light and TM14 position lights

- TM14 position lights i a slim and long modern design with 10 LEDs - length 240 mm

TM14 position light

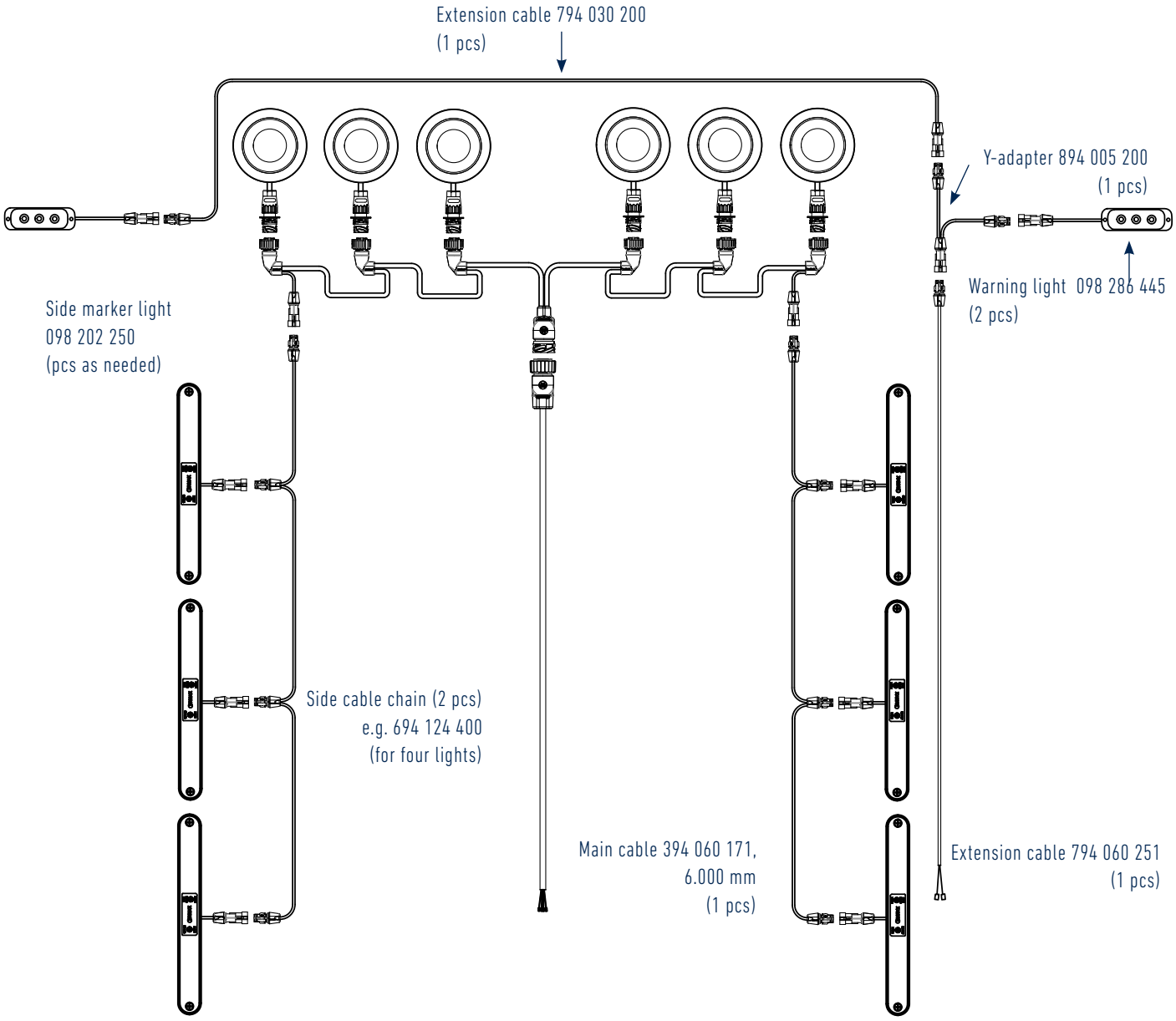
Warning light with Super Seal socket

TM5 Tail light:
Eternal Light® technology
Lens: Impact resistant polycarbonate

Warning light with 3 or 12 LEDs
With Super Seal socket
- Time-saving og easy mounting

Modern and elegant look

- Simple and flexible mounting
- Time-saving up to 8 hours
  - plug & play mounting of plugs, cables and lights
  - connection of extenstion cable 794 060 251 to existing wiring
- Possible to high-mount the light in the rear end of the vehicle e.g. in combination with the direction indicator from the same lighting series



TM14 Tail light - A series with various installation opportunities

- Housing and Lens made of impact resistant polycarbonate
- 10 LEDs
- different variants with direction indicator, dynamic direction indicator, stop and position light

See all variants and part numbers in the section "Tail light TM14"

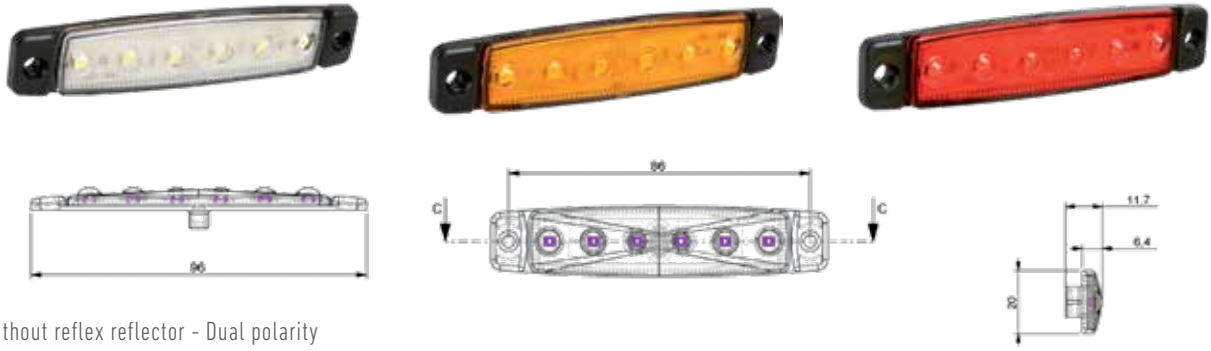
Part numbers from original manufactures are for reference purpose only and may not be used in offers or other material

Marker lights MULTI-VOLTAGE - based on needs and demands

Ideal for retrofittings, when many lights are needed

- LED side marker and position lights 12/24V
- Various designs and connection possibilities
- Large flexibility

Marker lights LED 12/24V



6 LEDs without reflex reflector - Dual polarity

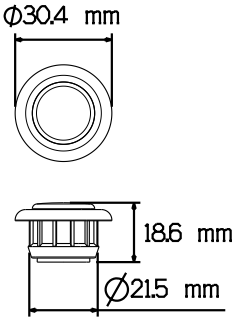
Dimension with mounting bracket: 96 x 20 x 6,4 mm
Bolt distance: 86 mm
IP Rating: IP67

OBS - Maximum 2^0 bending on the mounting surface (Flat surface mounting)

Functions

Mounting bracket	Connection	Cable length	Operating voltage	LEDs	Position white	Side marker Orange	Position Red
Surface mount	Open end	350 mm	12V/24V	6 LED's	098 230 423	098 221 423	098 200 423
Surface mount	Open end	5.000 mm	12V/24V	6 LED's		098 221 426	098 200 426

Position light LED 12/24V



Dimension: Ø30,4 x 18,6 mm
IP Rating: IP69

Functions

Surface mounting	Connection	Cable length	Operating voltage	LEDs	Position white	Position Red
Horizontal / Vertical	Click-in	500 mm	12/24V	1 LED	098 230 105	098 204 105
Horizontal / Vertical	Click-in	1.500 mm	12/24V	1 LED	098 230 115	098 204 115
Horizontal / Vertical	Click-in	3.500 mm	12/24V	1 LED	098 230 135	098 204 135

Part numbers from original manufactures are for reference purpose only and may not be used in offers or other material

Intelligent LED Control Units for monitoring and failure control of LED tail light

No worries - suitable for all types of vehicles regardless of the truck

ERMAX LED control units Generation 2.0 – Compatibel with all truck brands*

The new ERMAX LED control units are compatible with older monitoring technologies as well as with the new ISO13207 standard for failure contol. This means, that all known vehicles and trucks regardless of production year* can communicate with the new ERMAX LED failure control units - generation 2.0 - no matter which truck, a trailer is combined with.

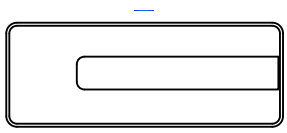
ERMAX LED control units Generation 2.0 technology is already used today in several variants in order to solve the known problems concerning light monitoring.

Generation 2.0 LED control units monitor the direction indicator light function and / or the stop light function, and ensure full failure control, when LED tail lights are used at the trailer. In case of light failure, the light monitoring system at the truck is activated according to the regulation ECE 48

* Valid for all known brands within EU of 12/2020

Upgrading from OEM LED tail light to ERMAX LED tail light

For most new trucks, all tail lights functions are monitored and the driver is alerted, if a tail light failure occurs. Replacing an original LED tail light with an ERMAX tail light, is usually a simple and problem free process. The vehicle is programmed to recognize the very limited consumption of the LED tail lights, and the monitoring of the light will not be affected.



OEM LED tail light

Upgrade to

ERMAX TM11 LED tail light

No additonal LED failure control unit is necessary

Upgrading from bulb tail light to ERMAX TM11 LED tail light

There is a risk that the truck may perceive the low-consumption LED-tail lights as a defective bulb, when upgrading from a bulb tail light to a LED tail light.

Some vehicles can be reprogrammed to use LED tail light, whereas other vehicles do not offer this facility. In these cases, using ERMAX LED failure control, it is possible to achieve the correct settings, and still meet all regulations.

The truck version of ERMAX TM11 tail lights is already prepared for integrating the LED failure control of the direction indicator and stop light functions. One LED failure control unit (098298149) pr. lighting function should be mounted in each of the ERMAX TM11 tail lights. One unit for dicrection indicator light , if the direction indidcator light is not recgonized by the truck. Two units, if both lighting functions are not recognized by the truck.

OEM bulb -tail light

Upgrade to

ERMAX TM11 LED tail light

+

As needed - LED control unit for direction indicator light and stop lightlys

LED control unit (098298149) - mounted on the back of the TM11 tail light

Intelligent LED failure control

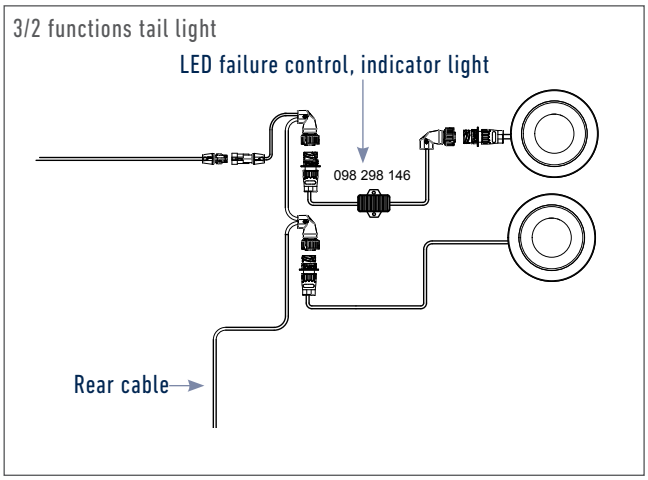
Upgrading from a bulb tail light to ERMAX TM5, TM7 or TM10 LED tail light

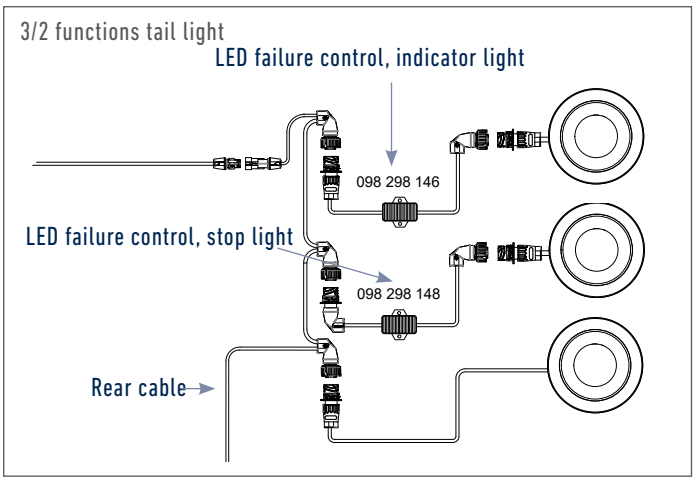
It is possible to connect 1 or 2 loose LED failure control units in series between the rear cable and tail light by using the pre-mounted standard 7 poled AMP plug, when mounting the ERMAX LED tail lights TM5, TM7 or TM10 Truck-version. One module for direction indicator light (098 298 146) and one module for stop light (098 298 148) are needed for each side of the truck.

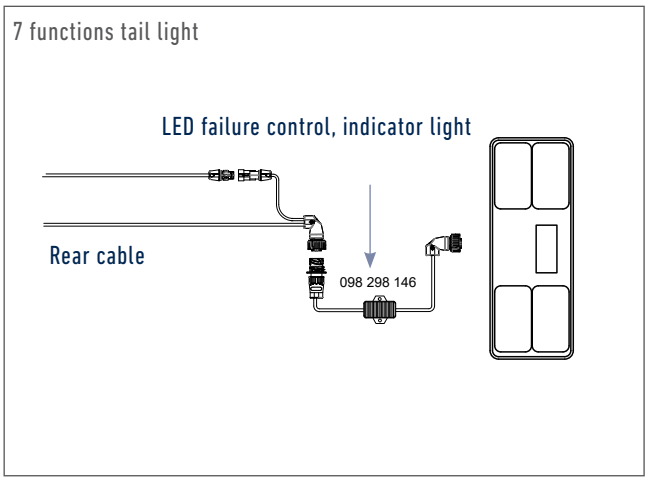
TM5 LED Eternal Light

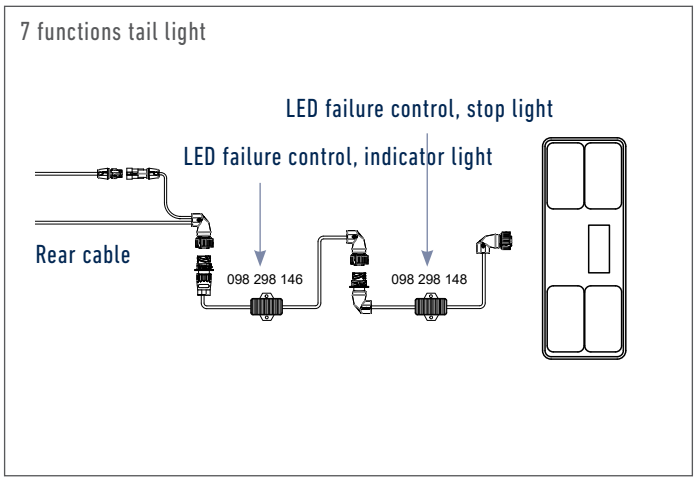
TM7 LED

TM10 Truck LED









Part numbers from original manufactures are for reference purpose only and may not be used in offers or other material

Intelligent LED failure control

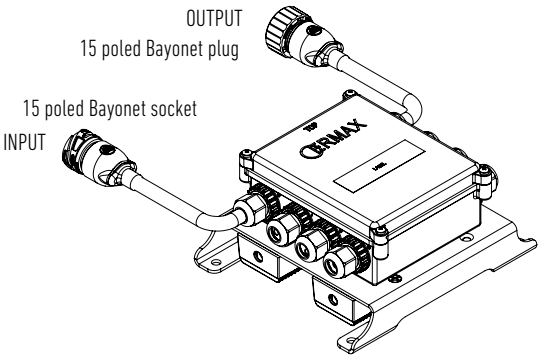
Monitoring of LED tail lights using junction box and LED control units pr. lighting function

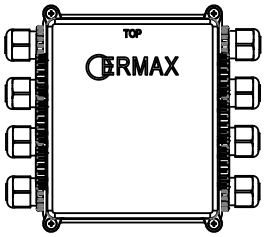
In cases where other functions than direction indicator and stop light needs monitoring, it is possible to use the ERMAX universal junction box (099866700), in which the LED failure control units (098298144) are connected to the functions, which needs monitoring. One LED failure control unit per function is needed for each side.

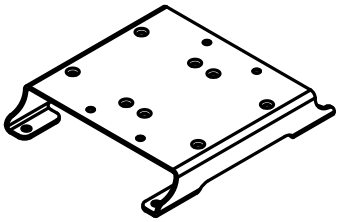
For a complete Ermax lighting installtion, the most optimal solution is to install a combined junction box ie. 099 866 700 mounted on a steel plate, on which it is possible to install up to five LED control units. This variant works simultaneously as junction box, in which all lighting functions can be accessed.

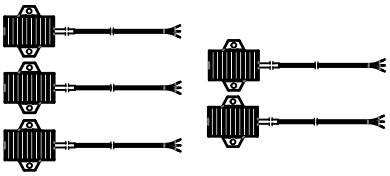
099866700
ERMAX Junction box - Universal

098298144
Universal - For all tail light functions
1 unit pr. function pr. tail light is needed









099298 144
Max.5 pcs. per junction box

*Valid for all known brands within EU as of 03/2020

Highlights ERMAX LED failure control unit Generation 2.0

- ERMAX LED control units are compatible with all brands and building-year of trucks produced in EU*, meaning that a trailer with Ermax LED failure control can be combined with all towing vehicles, old as new
- Use a technology which is NOT limited to ISO13207, and therefore suitable for all vehicles*
- Easy and flexible built-in of the small compact variants due to the long cables, meaning that they can either be mounted directly behind the tail lights or mounted further ahead at the front under the vehicle
- The new Generation 2.0 LED failure control technology is already used as an integrated part of the Ermax tail lights TM10, TM11 and TM12
- Approvals: ADR and EMC-R10

TM10 LED tail light

TM11 LED tail light

Application overview - Vehicle brands and models

Vehicle information				Variant of ERMAX LED control unit, which is usable*	
Vehicle brand	Type	model	ISO13207	LED Control unit Gen. 1.0	LED Control unit Gen. 2.0
DAF	All	-		✓	✓
Iveco	All	-		✓	✓
MAN	F2000	-2000		✓	✓
	L2000	-2000		✓	✓
	M2000	-2000		✓	✓
	TG-A	2000-2007		✓	✓
	TG-L	2005-2017		✓	✓
	TG-L	2017-	✓		✓
	TG-M	2005-2016		✓	✓
	TG-M	2016-	✓		✓
	TG-S	2007-2016		✓	✓
	TG-S	2016-	✓		✓
	TG-X	2007-2016		✓	✓
	TG-X	2016-	✓		✓
Mercedes	Actros	1995-2015		✓	✓
	Actros	2015-	✓		✓
	Antos	2012-2016		✓	✓
	Antos	2016-	✓		✓
	Atego	1998-2017		✓	✓
	Atego	2017-	✓		✓
	Arocs	2013-2016		✓	✓
	Arocs	2016-	✓		✓
	Axor	2002-2017		✓	✓
	Axor	2017	✓		✓
	SK	1989-1998		✓	✓
Renault	All	—		✓	✓
Scania	92, 112, 142			✓	✓
	93, 113, 123, 143			✓	✓
	94, 114, 124, 144, 164	1995-2005		✓	✓
	P, R, T Series	2004-2017		LED control unit not necessary	
	P, R, T Series	2018-	✓		✓
	G-Series	2007-		LED control unit not necessary	
Volvo	FH I	1993-2012		✓	✓
	FH II	2012-		LED control unit not necessary	
	FL I	1986-1999		✓	✓
	FL II	1999-2013		✓	✓
	FL II	2013-		LED control unit not necessary	
	FM I	1998-2001		✓	✓
	FM II	2001-2010		✓	✓
	FM II	2010-		LED control unit not necessary	

Part numbers from original manufactures are for reference purpose only and may not be used in offers or other material

* Dokumenteret i forbindelse med Ermax tail lights

TAIL LIGHTS
TRUCK

ERMAX®

Eternal Light®

The best choice

ERMAX Eternal Light® offers the newest light and LED technology, and is designed for the best possible safety when driving.

The Eternal Light® technology offers the best possible homogeneous light function and has various advantages based on test results.

Eternal Light®

THE ERMAX EFFECT

14x

more powerful light *

*compared to classic LED light

Increased traffic safety

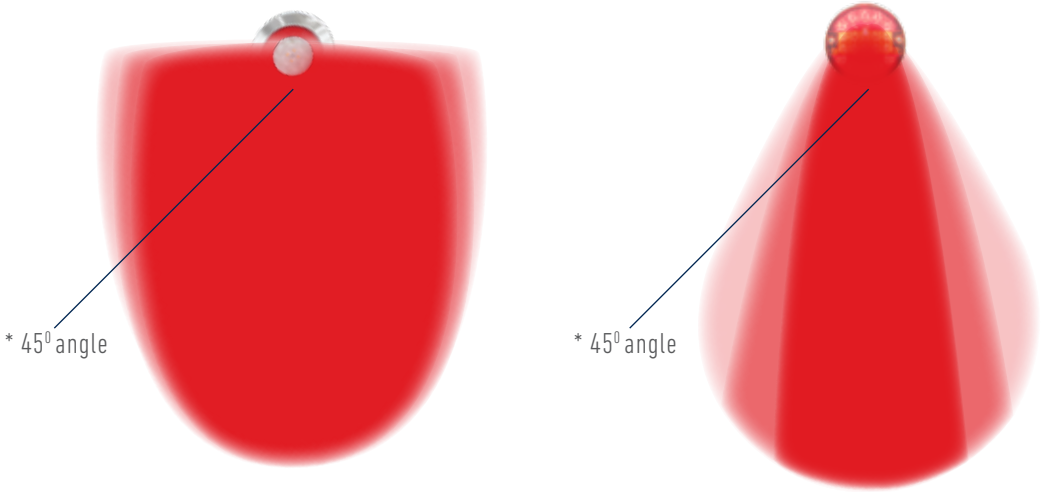
Eternal Light® lighting technology – is perceived by other road users - motorists and cyclists - earlier than classic LEDs lights or bulb lights. Contributes to reducing the number of accidents in connection with changing lanes and right turns

* Eternal light® is 14 x stronger compared to classic LED light with an 45^0 angle.

Soft visuality when platooning

Classical LED light is very directional, whereas Eternal light® has a more soft and homogeneous light pattern, which prevents tiredness when exposed for a long time, and thereby prevents accidents

Example of the light pattern with Eternal Light® and classic LED light:



Eternal Light®

classic LED

ERMAX tail light with Eternal Light®

TM10 TM11 TM12 TM13 TM5

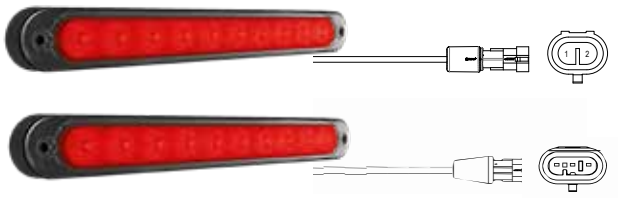
Part numbers from original manufactures are for reference purpose only and may not be used in offers or other material

Overview - truck tail light LED

Opportunity for installation of LED control unit

Tail light 24V LED	LED contol unit integrated in the tail light		LED control unit
	Dir. indicator	Stop light	Seperate mounting
TM 10 Tail light 24V LED (* OBS - see note) Lens: Impact resistant polycarbonate Housing: Polypropylen (PP) Connection: 7 poled AMP socket integrated (rear or side) IP-Rating: IP54 	✗	✗	✓ (For both direction indicator and stop light)
TM 11 Tail light 12/24V LED (* OBS - see note) Lens: Impact resistant polycarbonate Housing: Impact resistant polycarbonate Connection: 7 poled AMP socket integrated (rear or side) IP-Rating: IP69K 	✓ Optional	✓ Optional	(not necessary)
TM 15 Tail light 12/24V LED Lens: Impact resistant polycarbonate Housing: Impact resistant polycarbonate Connection: 300 mm cable med 7 poled AMP socket IP-Rating: IP69K 	✗	✗	✓ (For both direction indicator and stop light)
TM 12 Tail light 12/24V LED Lens: Impact resistant polycarbonate Housing: Impact resistant polycarbonate Connection: 7 poled AMP socket integreret (rear) IP-Rating: IP69K 	✓	✗	✓ (for stop light)

* OBS:It is furthermore possible to mount additional external LED control fo the position, rear fog and reverse light for TM 11 and TM10

Tail light 24V LED	LED contol unit integrated in the tail light Dir. indicator	 Stop light	LED control unit Seperate mounted
TM 13 Tail light 12/24V LED Lens: Impact resistant polycarbonate Housing: Polycarbonate and ABS Connection: 7 poled AMP socket (300 mm cable) /Open end / DT4 IP-Rating: IP69K 	✗	✗	✓ (For both direction indicator and stop light)
TM 5 Tail light 12/24V LED Lens: Impact resistant polycarbonate Housing: Impact resistant polycarbonate Connection: Cable med 7 poled AMP socket / Open end IP-Rating: IP69K 	✗	✗	✓ (For both direction indicator and stop light)
TM 14 Tail light 12/24V LED Lens: Impact resistant polycarbonate Housing: Impact resistant polycarbonate Connection: Cable with 2 or 3 poled Super Seal / Open end IP-Rating: IP69K 	✗	✗	✓ ((For both direction indicator and stop light), and separate for position light)

LED control unit (loose component)

098 298 144

Universal - suitable for all tail light functions

(one unit pr. function)

098 298 146

Control unit for direction indicator light

098 298 148

Control unit for stop light

Part numbers from original manufactures are for reference purpose only and may not be used in offers or other material

TM 10 LED tail light 24V - Hybrid or LED

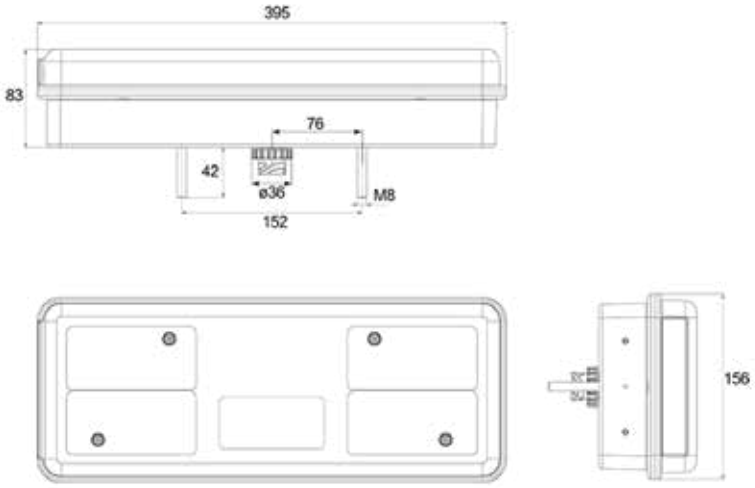
E EMC

Eternal Light®

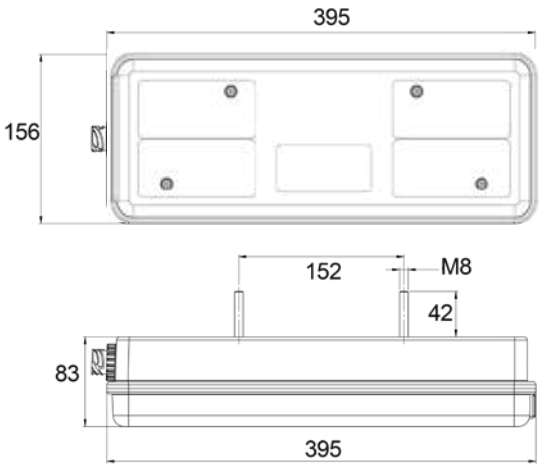
Unbeatable

Hybrid

LED



AMP socket placed at the back



AMP socket placed on the side

Description

Lens:	Impact resistant polycarbonate
Housing:	Polypropylen (PP)
Dimension:	390 x 155 x 80 mm
Bolt distance:	152 mm / M8
Working temperature:	-40°C - +65C°
IP-Rating:	IP54

TM 10 LED tail light 24V - Hybrid or LED

Functions								
Type	Operation voltage	Right → Left ←	Postion / Stop / Dir. indicator / Reverse / Rear fog / Side marker / reflex reflector	License plate	Outer end marker	Connection 7 poled AMP 1.5 socket Direction:	Article no.
Hybrid	24V	→	✓			Side	098 216 412
Hybrid	24V	←	✓			Side	098 216 413
LED	24V	←	✓			Rear	098 216 509
LED	24V	→	✓	✓		Rear	098 216 510

Spare parts & Accessories for TM10 tail light 24V

Pos. 1

Pos. 2

Spareparts / Acessories

Lens, Right	1	098 296 354
Lens, Left	1	098 296 355
Protection cover for tail light	2	098 296 710

Part numbers from original manufactures are for reference purpose only and may not be used in offers or other material

TM11 LED Tail light 12/24V

Tail light for Standard vehicles

Modern light and LED-technology

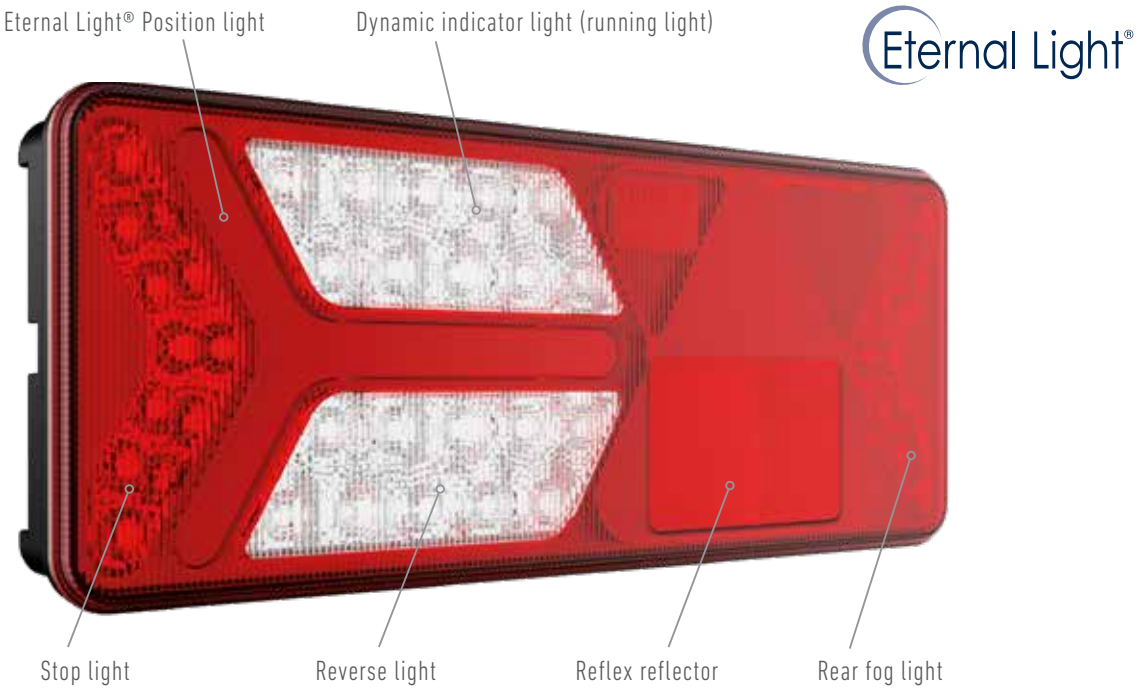
The compact and modern 7-function tail light from ERMAX

As highlights the full-LED tail light from ERMAX offers a thin design, modern dynamic indicator light, impact resistant lens and integration of all legal control units.

With ERMAX TM11 Truck tail light it is possible to integrate LED control for direction indicator light and/ or stop light. The technology used, is not limited to the ISO13207 and therefore works on all vehicles*.

The handling - according to ECE 48 - of the flashing function in the side marker lights at the same time as the direction indicator light in the tail light, is of course also fully integrated in the TM11 tail light.

High durability, modern functionalities and unique design - all united in the ERMAX TM11 tail light and thanks to the cost-effectiveness, a real highlight.



Highlights

- Unbreakable - Impact resistant lens of polycarbonate
- Multi voltage 12/24V
- Modern dynamic indicator light (running light)
- Built-in LED control for direction indicator light and stop light according to ECE 48 - compatibel with all brands and year of EU trucks*
- Built-in control of side marker light (SIMAC®) according to ECE 48 supp. 06 (since Nov. 2017)
- Control of position, rear fog and reverse light is possible
- Certified in accordance with all relevant standards and regulations in Europe

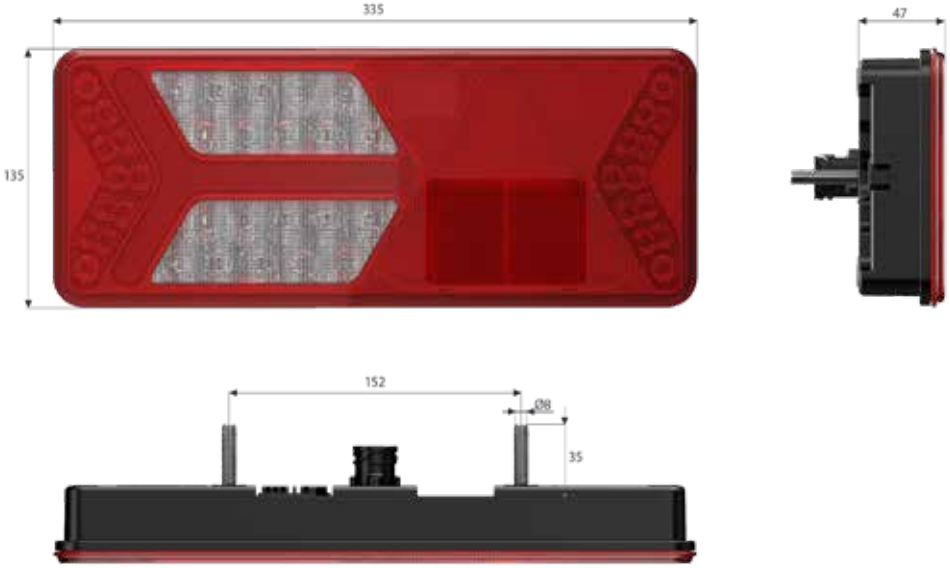
** Stand 05.2020*

TM 11 Tail light 12/24V - LED

E EMC

Eternal Light®

Unbeatable



Description

Lens:	Impact resistant polycarbonate
Direction indicator:	Dynamic direction indicator light (running light)
Housing:	Impact resistant polycarbonate
Dimension:	335 x 135 X 47 mm
Bolt distance:	152 mm / 35 mm M8
Working temperature:	-40°C - +65C°
IP Rating:	IP69K

*) Super Seal functions for 3 x position light incl. SIMAC, 1 x stop light (RH) & reverse light (LH)

Part numbers from original manufactures are for reference purpose only and may not be used in offers or other material

TM 11 Tail light 12/24V - LED

Functions								
Type	Right → Left ←	Position Stop Dir. indicator Reverse Rear fog Reflex reflector	Outer end marker	Connection 7 poled AMP socket Direction:	2x2 Super Seal placed at the back*	SIMAC control integrated	LED control integrated	Article no.
LED	→	✓	Optional	Rear	✓	✓	Optional	098 216 570
LED	←	✓	Optional	Rear	✓	✓	Optional	098 216 571

LED failure control for monitoring of direction indicator and/or stop light is optional

Some vehicles can be reprogrammed to use LED tail light, whereas other vehicles do not offer this facility. In these cases, using ERMAX LED failure control, it is possible to achieve the correct settings, and still meet all regulations.

The truck version of ERMAX TM11 tail lights is already prepared for integrating the LED failure control of the direction indicator and stop light functions. One LED failure control unit (098298149) pr. lighting function should be mounted in each of the ERMAX TM11 tail lights. One unit for dicrection indicator light , if the direction indidcator light is not recgonized by the truck. Two units, if both lighting functions are not recognized by the truck.

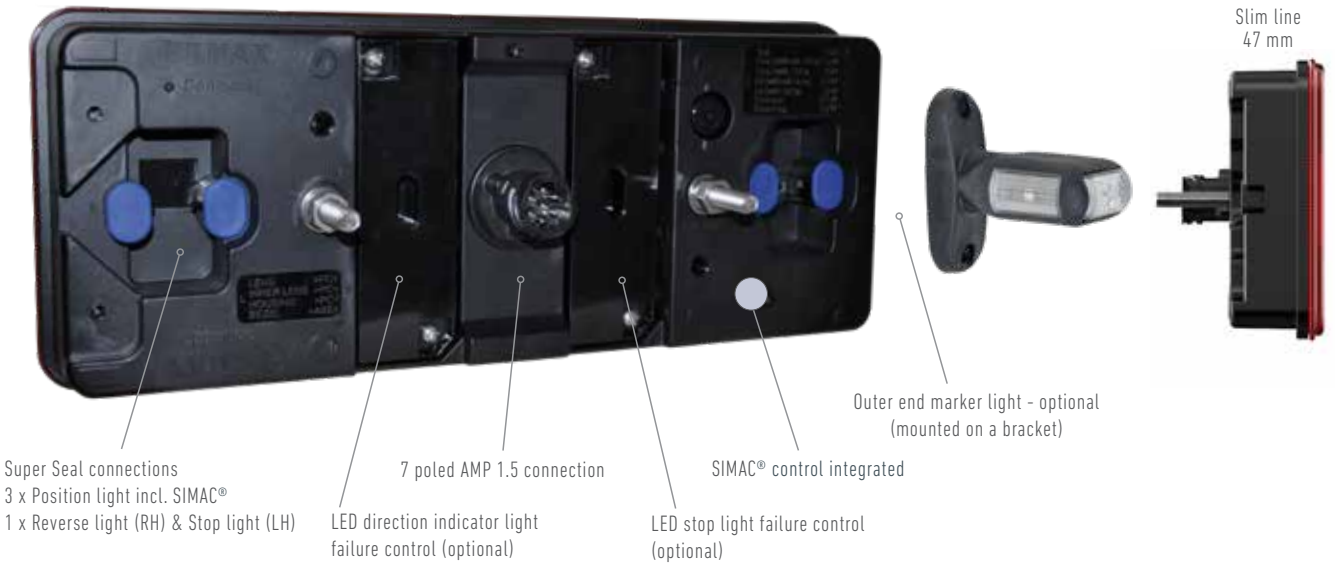
\+

LED control for direction indicator and stop light

LED control unit for direction indicator and stop light (098298149)
- mounted in the back of the TM11 lygten

Outer end marker light are optional

The suitable outer end marker light for the TM11 tail ligth is 098 241 218 (RH/LH) short model and for long/angled model 098 241 448 / 098 241 449 (RH/LH). The outer end marker light is mounted on the bracket placed on the side of the tail light, and the Super Seal plug from the outer end marker light is mounted at the back of the tail light in the Super Seal socket.



Spare parts & Accessories TM 11 LED Tail light 12/24V

Pos. 1

Pos. 2

Pos. 3

Pos. 4

Pos. 5

Pos. 6

Spare parts & Accessories

Holder of plastic, angled, for outer end marker light Delivered with 4 pcs. stainless torx screws. Bolt distance: 77 mm	1	098 292 610
LED outer end marker light 12/24V, Right/Left - 300 mm connection cable with Super Seal plug	2	098 241 218
LED outer end marker light 12/24V, Right - 300 mm connection cable with Super Seal plug	2	098 241 448
LED outer end marker light 12/24V, Left - 300 mm connection cable with Super Seal plug	3	098 241 449
Protection cover for tail light	4	098 296 710
Cover of LED control - For covering of SLD connection at TM11 Tightens and protects contacts for SLD-unit	5	098 296 700
LED control unit 12/24V for TM11 tail light built-in For monitoring direction indicator and stop light. One unit per function is needed For mounting at the back of the housing. Connection with 3 x spring-loaded contacts	6	098 298 149

Part numbers from original manufactures are for reference purpose only and may not be used in offers or other material

TM 12 LED tail light 12/24 V

Unique design- and rather cool

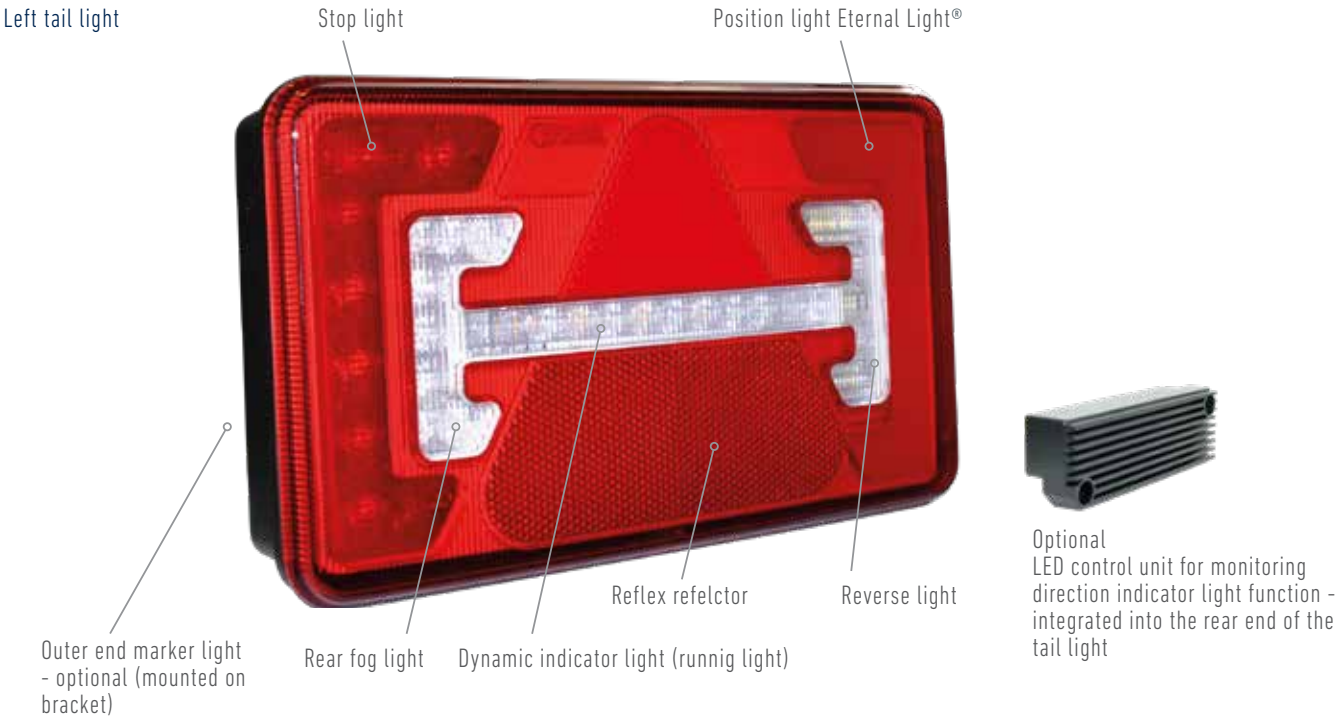
6 function light which provides the best possible light in all kind of weather

The new ERMAX TM12 tail light is based on the newest light and LED technology, and meets the toughest standards in term of technique, quality and functionality.

TM12 tail light has a unique and modern design, and due to the compact size, the TM12 tail light is particulary suitable for vehicles with limited mounting or installation space. It is furthermore possible to integrate a LED control unit for direction indicator light in the TM12 tail light.

Unique desing, the newest light and LED technology, long durability and highest quality all united in the TM12 tail light to a wide range of vehicles - and thanks to the cost-effectiveness, a real highlight.

Eternal Light®



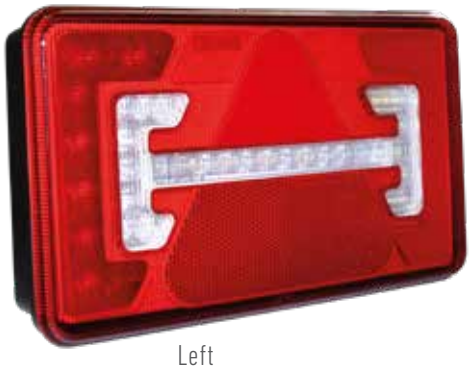
Optional
LED control unit for monitoring direction indicator light function - integrated into the rear end of the tail light

Highlights

- Housing and Lens made of highly resistant polycarbonate
- Multivolt 12/24V
- ERMAX patented position light - Eternal Light® – for optimum traffic safety
- Modern dynamic direction indicator light function (running light)
- Integrated LED control unit for direction indicator light according to ECE 48 (optional)
- The outer end marker light can be mounted directly on the bracket – with pre-defined breaking point
- ECE, EMC and ADR certified – with IP69K rating

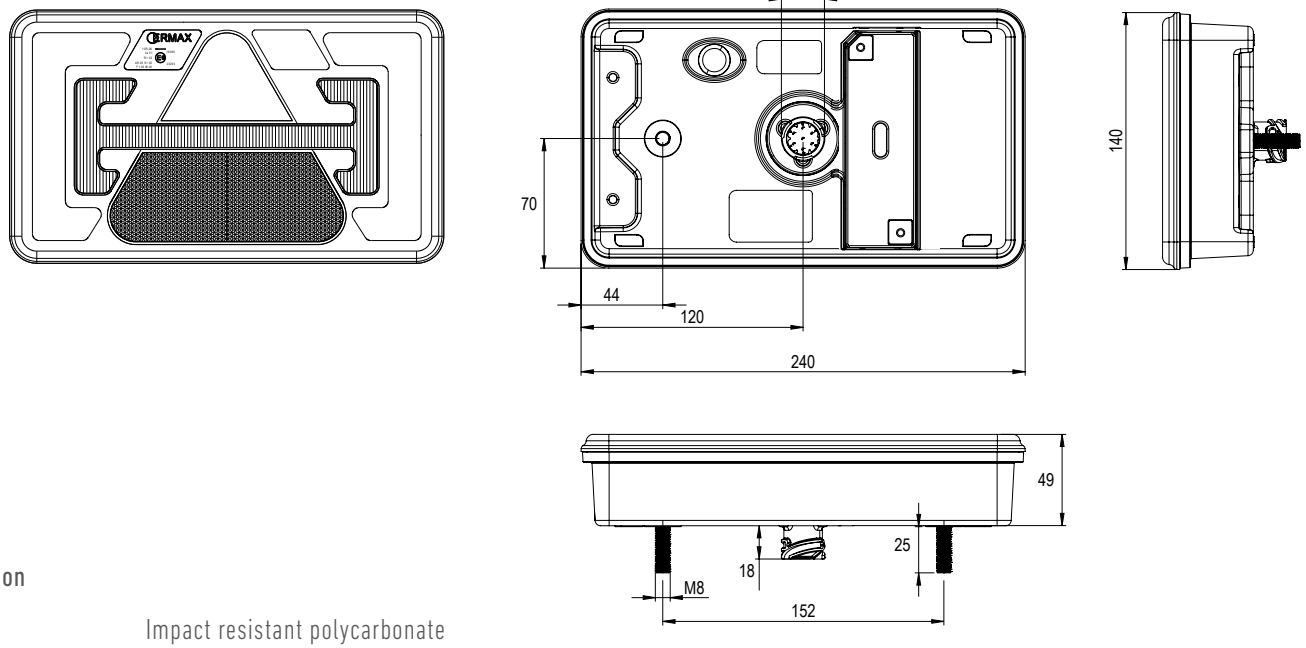
TM 12 Tail light 12/24V - LED

E EMC



Left

Right



Description

Lens:	Impact resistant polycarbonate
Direction indicator:	Dynamic direction indicator light (running light)
Housing:	Impact resistant polycarbonate
Dimension:	240 x 140 X 49 mm
Bolt distance:	152 mm / 35 mm M8
Working temperature:	-40°C - +65C°
IP Rating:	IP69K

Functions

Type	Right → Left ←	Position Stop Dynamic dir. indicaotr	Reverse	Rear fog	Reflex reflector	Outer end marker	Connection 7 poles AMP socket Direction:	LED control unit Dir. indicator	Article no.
LED	→	✓	✓	✓	✓	Optional	Rear	Optional	098 216 630
LED	←	✓	✓	✓	✓	Optional	Rear	Optional	098 216 631

Part numbers from original manufactures are for reference purpose only and may not be used in offers or other material

Spare parts and Accessories TM 12 LED Tail light 12/24V

Pos. 1

Pos. 2

Pos. 3

Pos. 4

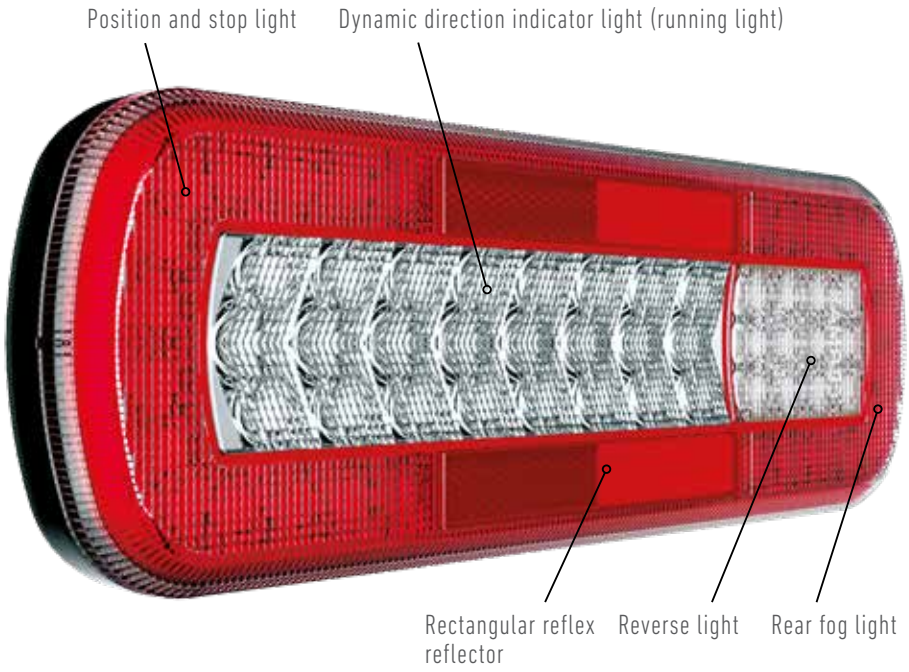
Pos. 5

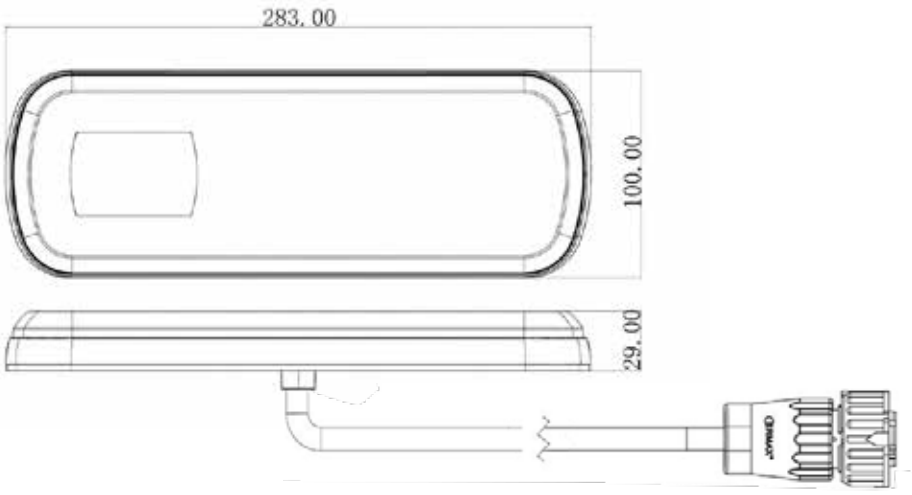
Spare parts and accessories

Bracket, angled, made of plastic - for mounting of outer end marker light Supplied with 2 pcs. stainless torx screws - bolt hole distance of 77 mm	1	098 292 610
LED outer end marker light 12/24V, Right/Left - 300 mm connections cable with Super Seal plug	2	098 241 218
Cover for tail light w/o Super Seal connectors, Right/Left	3	098 296 705
Cover for tail light with Super Seal outlets	4	098 296 710
LED control unit 12/24 for mounting on TM11 and TM12 Tail lamp, for control of flasher-, or stop light. Connection with 3 x spring loaded contacts	5	098 298 149

Part numbers from original manufactures are for reference purpose only and may not be used in offers or other material

TM 15 Tail light 12/24V - LED





Description

Lens:	Impact resistant polycarbonate
Direction indicator:	Dynamic direction indicator light(running light)
Housing:	Impact resistant polycarbonate
Dimension:	283 x 100 x 29 mm
Bolt distance:	152 mm / M8
Working temperature:	-40°C - +65C°
IP Rating:	IP69K

Consumption per lighting function

Position light:	0,6W
Stop light:	3,1W
Direction indicator light:	3,1W
Reverse light:	2,8W
Rear fog light:	3,6W

TM 15 Tail light 12/24V - LED

Functions					
Type	Right → Left ←	Position / Stop / Dynamic dir. indicator / Reverse / Rear fog / Rectangular reflex reflector	Connection	Cable length	Article no.
LED	→ ←	✓	7 poled AMP-socket	300 mm	098 216 590

TM15 Tail light LED

Smart, modern 6 function tail light for trucks with dynamic direction indicator light
Long slim design with many LEDs which gives a beautifull and modern light pattern

Is posible to combine with the new TM14 lighting series
- see description in the following sections with tail lights

TM 13 Tail light 12/24V - LED

Small and slim design

The perfect solution if the installation place is limited

The new ERMAX TM13 4-functions tail light in full-LED offers highlights as small, slimline and modern design for almost any application – for trailer as well as truck.

The TM13 LED tail light is due to its compact size and its slim design all-round useable and especially suitable for narrow build-in measures.

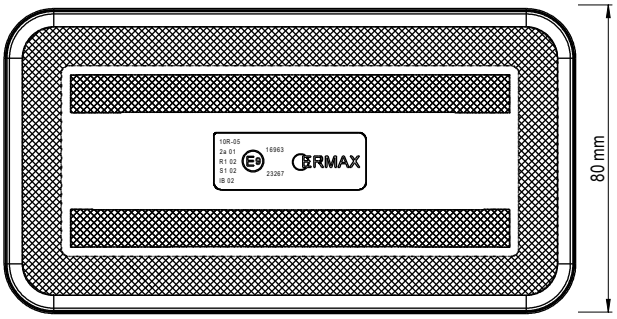
Recognizable design with Eternal Light®, newest light and LED technology and high quality are united in the ERMAX TM13 tail light – and makes the new TM13 tail light to another ERMAX innovation within lighting for heavy vehicles.

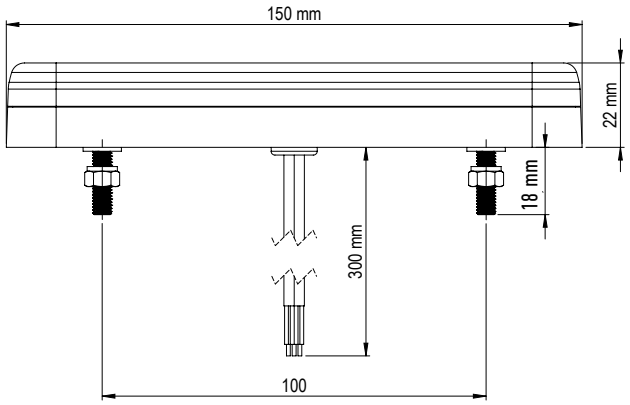
Eternal Light®

Highlights

- Applicable for trailer and truck
- Slimline-design - the perfect solution for limited build-in dimensions
- Suitable for high mounting
- ERMAX patented postion light – Eternal Light®
- Compatible with the intelligent ERMAX LED failure control and the SIMAC®-control unit according to ECE 48 regulation
- Certified according to all relevant standards and regulations in Europe

TM 13 Tail light 12/24V - LED





OBS: If only vertical mounting, a separate legal reflector must be mounted

Description

Lens:	Polycarbonate
Housing:	Polycarbonate and ABS
Dimension:	150 x 80 x 22 mm
Bolt distance:	100 mm / M5
Working temperature:	-40°C - +65C°
IP Rating:	IP69K

Functions

Type	Right → Left ←	Position	Stop	Dir. indicator	Rectangular reflex reflector	Connection	Cable length	Article no.
LED	→ ←			✓		Open end	300 mm cable, 4 core	098 212 170
LED	→ ←			✓		Open end	2.500 mm cable, 4 core	098 212 171
LED	→ ←			✓		7 poled AMP Steckdose	300 mm cable	098 212 172
LED	→ ←			✓		4 poled Deutsch socket (DT4)	300 mm cable	098 212 173

Part numbers from original manufactures are for reference purpose only and may not be used in offers or other material

TM 4 Tail light 12/24V - LED (Surface mounting)

A classic new developed

The newest technology – integrated LED failure control

The classic ERMAX TM4 LED tail light is well-known and has been used on vehicles all over Europe for many years. Due to new vehicle technology challenges with the light function recognition, ERMAX has new developed the classic TM4 LED tail light. The new TM4 tail light now meets the highest demands in the areas of technique, quality and functionality.

The design and build-in measures of the TM4 tail light have not been changed. Quite NEW is, however, the possibility of getting the tail light with integrated LED failure control for monitoring the direction indicator light and the stop light. This means that the vehicle is able to control the light functions according to ECE regulations.

The integrated LED failure control offers many advantages, as it supports both the ISO 13207 cold test and the state-of-the-art LED monitoring.

.

TM4 LED Tail light

Classical design
- newest technology

Unique
red-white-red design

Integrated
LED failure control

The integrated LED failuere control will solve many challenges

Highlights

- LED tail light with integrated LED control for monitoring the indicator and stop light in accordance with ECE 58.
- Use of a technology that is not only limited to ISO 13207 but also takes over the monitoring of older and new vehicles*.
- Control of flashing side marker lights (SIMAC®) by using rear cable with incorporated SIMAC®.
- Space-saving and fewer interfaces in the wiring harness, as no external control units / control boxes are required.
- Easy and quick mounting. Cost-saving due to reduction of mounting time and no maintenance.
- Classic design which can easily be combined with other existing lights.
- Possibility of a unique red-white-red design.
- D-approval and thus suitable for double mounting.
- IP69K rating of the LED unit (the tail light IP54K).
- ECE-, EMC- and ADR certified.

* Applies to all well-known brands in EU countries from 11/2009

TM 4 Tail light 12/24V - LED (Surface mounting)

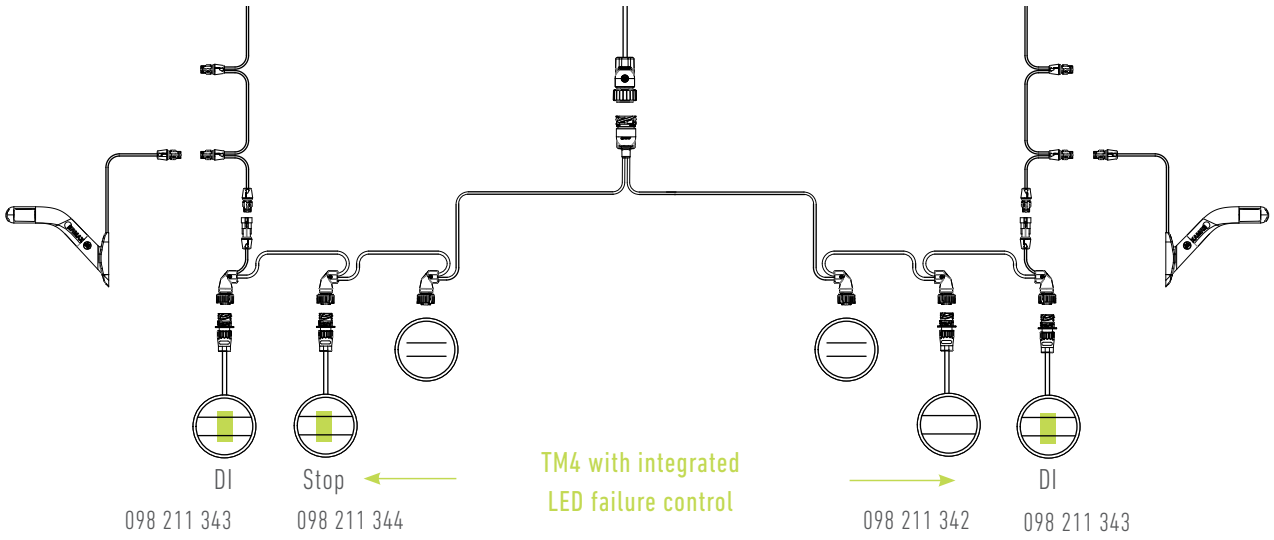
Concinving technology - The best choice

The newest technology for monitoring and control of LED light functions

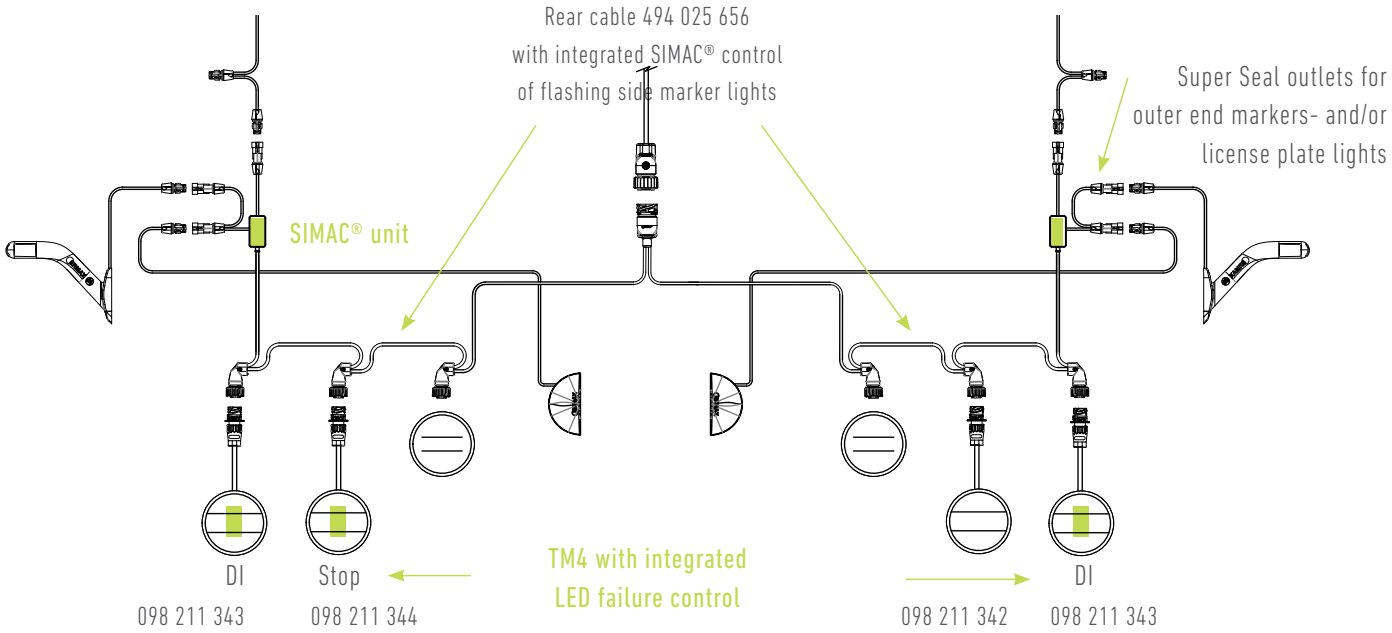
Using the newest technology in the ERMAX TM4 tail light enables integrated LED control to monitor the indicator and stop light function. If control of flashing side marker lamps SIMAC are needed ERMAX offers several innovative solutions, which can be connected easily and intelligently as a part of the cable system or as a plug-in solution.

- The integrated LED control in the tail light for monitoring the indicator and stop light functions, using a technology which is not limited to ISO 13207 and thus can be used for all vehicle* according to ECE R48.
- Intelligent control of the flashing side marker lights SIMAC® according to ECE R48 integrated in the rear cable.

Cable system with LED failure control for direct indicator and stop light function - integrated in the TM4 tail lights



Cable system with LED failure control for direct indicator and stop light function integrated in the TM4 tail lights - and SIMAC® in the rear cable



TM 4 Tail light 12/24V - LED (Surface mounting)

Variants & functions

for every use

E CEM

TM4 LED tail light Surface mounting	Voltage	Position Stop Indicator	Reverse	Rear fog	Connection	D-approval	LED control integrated	Article No.
Classic design - with D-approval								
	24V	✓			Cable lead through rubber grommet	✓		098 211 340
	24V	✓			300 mm cable with 7 poled AMP socket	✓		098 211 342
	24V	✓			Cable lead through rubber grommet	✓	Direct indicator light	098 211 341
	24V	✓			300 mm cable with 7 poled AMP socket	✓	Direct indicator light	098 211 343
	24V	✓			300 mm cable with 7 poled AMP socket	✓	Stop light	098 211 344
Classic design - without D-approval								
	12/24V	✓			Cable lead through rubber grommet			098 212 442
	12/24V	✓			300 mm cable with 7 poled AMP socket			098 212 436
Unique red-white-red design - with D-approval								
	12/24V	✓			Cable lead through rubber grommet	✓		098 212 345
	12/24V	✓			300 mm cable with 7 poled AMP socket	✓		098 212 339
	24V	✓			Cable lead through rubber grommet	✓	Direct indicator light	098 211 361
	24V	✓			300 mm cable with 7 poled AMP socket	✓	Direct indicator light	098 211 363
	24V	✓			300 mm cable with 7 poled AMP socket	✓	Stop light	098 211 364

TM 4 Tail light 12/24V - LED (Surface mounting)

Variants & functions

for every use

E CEM

TM4 LED tail light Surface mounting	Voltage	Position Stop Indicator	Reverse	Rear fog	Connection	D-approval	LED control integrated	Article No.
Combination rear light - reversing and rear fog - without D approval								
	12/24V		✓	✓	Cable lead through rubber grommet			098 255 340
	12/24V		✓	✓	300 mm cable with 7 poled AMP socket			098 255 342
Single-function rear light - reversing and rear fog - without D approval								
	24V		✓		Cable lead through rubber grommet			098 256 343
	12/24V		✓		300 mm cable with 7 poled AMP socket			098 256 336
	12/24V			✓	Cable lead through rubber grommet			098 257 349
	12/24V			✓	300 mm cable with 7 poled AMP socket			098 257 336

Material description

Lens:	PMMA
Housing:	PP
Measure:	Ø140 x 80 mm
Bolt distance:	45 mm / M6
Working temperature:	-40°C - +65C°
IP-Rating:	IP54 (LED unit: IP69K)

LED failure control on functions that are not preconfigured

The ERMAX TM4 tail light is pre-configured to monitor a specific light function as described above.

If monitoring of a different light function is required, this can be changed by changing a pair of plug connections. Information can be found on page 7.

Part numbers from original manufactures are for reference purpose only and may not be used in offers or other material

TM 4 Tail light 12/24V - LED (Surface mounting)

Rear underrun protection bar with TM4 tail lights

According to ECE R58 revision 3

- Classical elegant design - new developed
- LED failure control and SIMAC® integrated
- Also possible in the unique red and white design

Integrated LED failure control for monitoring the direction indicator function and stop light function

098 259 075

098 259 095

Measure (WxDxH): 2780 (2400 mm without OEM) x 160 x 252 mm

Variant - ECE R58-03

Type	Junction box	SIMAC	LED failure control Dir. indicator light	LED failure control Stop light	Article no.
LED	✓	✓	✓	✓	098 259 075 *
LED	✓	✓	✓	✓	098 259 095 **

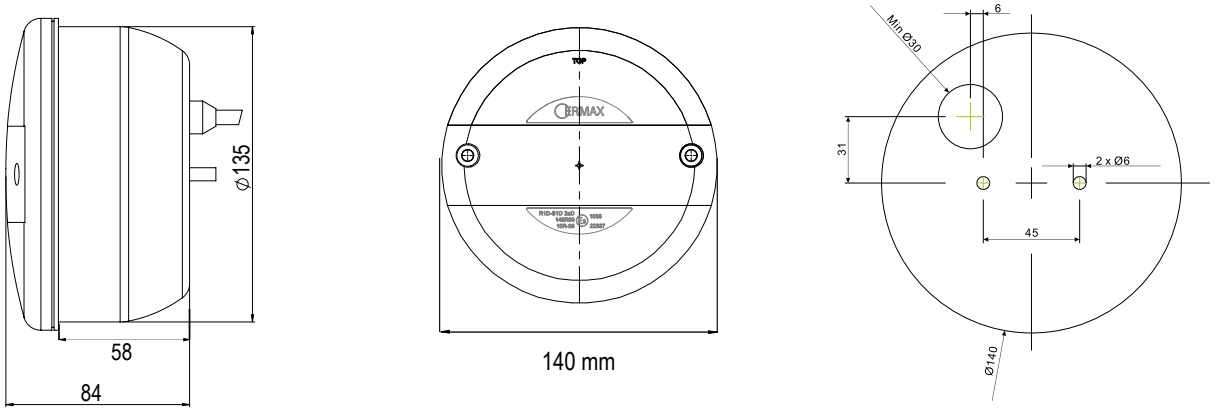
* With D approval

** The triangular refelctors must be mounted separately

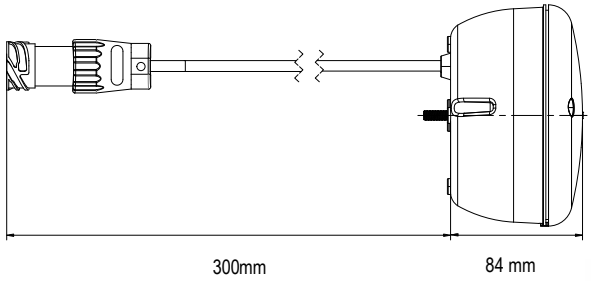
TM 4 Tail light 12/24V - LED (Surface mounting)

Drawings, measure and spare parts

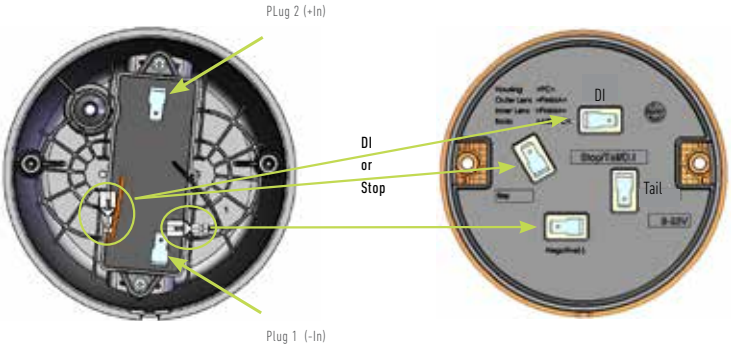
TM4 LED tail light with rubber grommet



TM4 LED tail light with 300 mm connection cable with 7 pole AMP socket



LED failure control on functions that are not preconfigured



Spare parts and accessories

Chrome ring and built-in kit	1	098 292 360
Protection cover for tail light	2	098 296 720
TM4 housing with LED failure control unit 24V, cable lead through rubber grommet, for monitoring the direct indicator or stop light function	3	098 298 114

Part numbers from original manufactures are for reference purpose only and may not be used in offers or other material

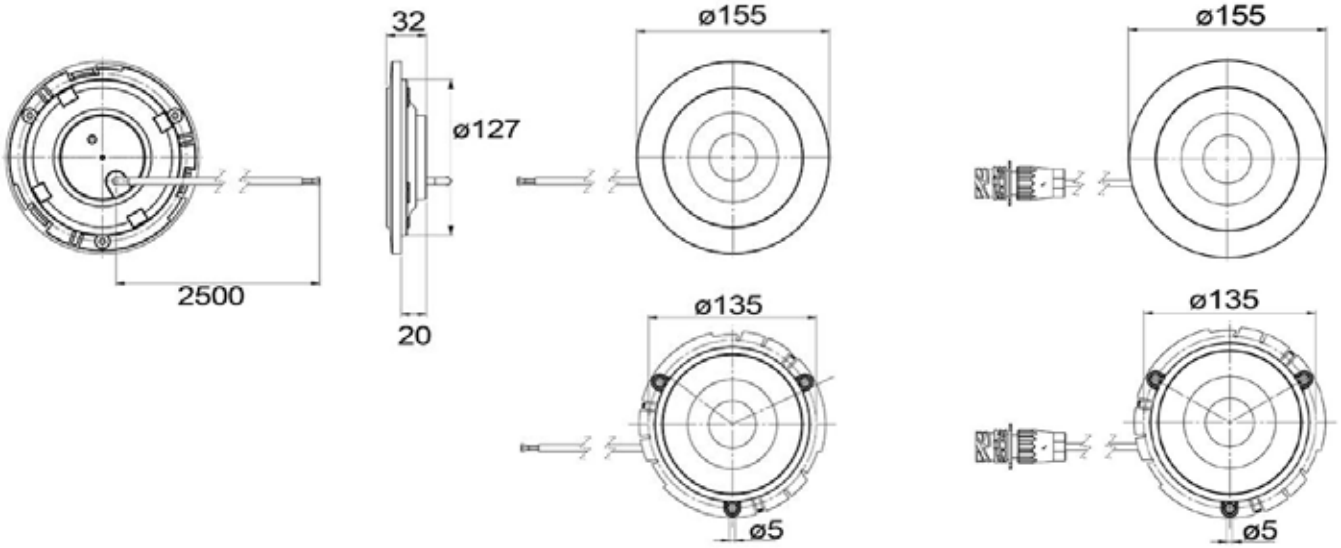
TM 5 Tail light LED with Eternal Light® and chrome ring 12/24V (Built-in)

E EMC

Unbeatable

Pos. 1

Pos. 2



Description

Position light with Eternal Light® technology
Ultra thin surface installation depth

Lens:	Impact resistant polycarbonate
Housing:	Impact resistant polycarbonate
Dimension:	Ø155 x 32 mm
Built-in:	Ø127 mm
Bolt distance:	3 pcs Ø4,5 mm with 120° spread in Ø135 mm
IP Rating:	IP69K
Working temperature:	-40°C - +65°C
Chrome ring:	Max Temperatur 80°C

TM 5 Tail light LED with Eternal Light® and chrome ring 12/24V (Built-in)

Functions

Operating voltage	Position Stop Dir. indicator	Reverse Rear fog	Cable length	Connection	Outlet Super Seal	Pos.	Article no.
12/24V	✓		2500 mm	Open end		1	098 212 101
12/24V	✓		300 mm	7 poled AMP 1.5 socket		1	098 212 102
12/24V		✓	2500 mm	Open end		2	098 255 101
12/24V		✓	300 mm	7 poled AMP 1.5 socket		2	098 255 102
12/24V		✓	1.000 mm	7 poled AMP 1.5 socket	200 mm cable with Super Seal socket for reverse gear alarm or reverse light	2	098 255 104

Spare parts

Chrome ring	098 292 215

Installation of additional reverse light or reverse gear alarm to 098 255 014

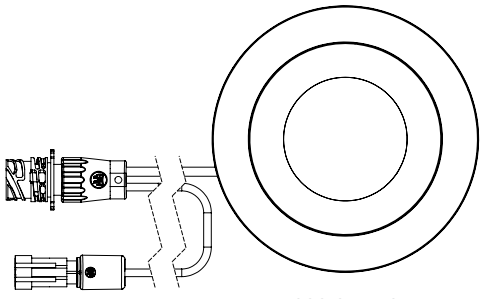
The reverse gear alarm or reverse light can if needed, easily be connected by using the reverse light 098 255 104, which has extra outlets with Super Seal socket

300 mm cable
with Super Seal socket **

098 256 255

250 mm cable
with Super Seal plug

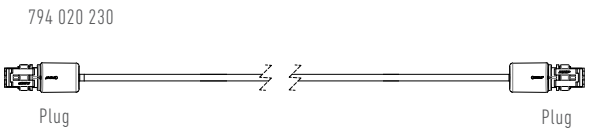
090 450 350

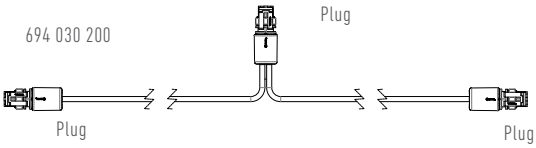


098 255 104

** Installation of reverse light to reverse and fog light 098 255 014

- possible by using the Y-adapter 894 005 230 or alternatively the extension cable with Super Seal plug 794 020 230 or 694 030 200 as shown below. More lengths are available.





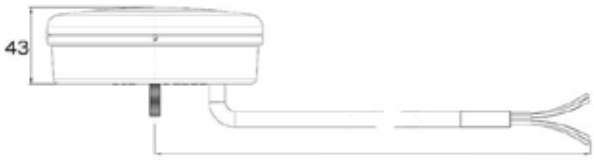
Part numbers from original manufactures are for reference purpose only and may not be used in offers or other material

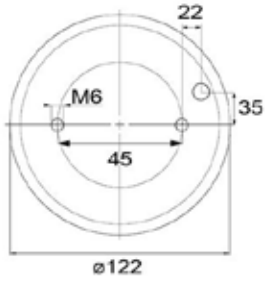
TM 6 Tail light LED 12/24V (Built-in)

E EMC

Pos. 1

Pos. 2





Description

Lens:	PMMA
Housing:	ABS
Dimension:	Ø122 x 43.2 mm
Bolt distance:	45 mm / M6
IP Rating:	IP69K

TM 6 Tail light LED 12/24V (Built-in)

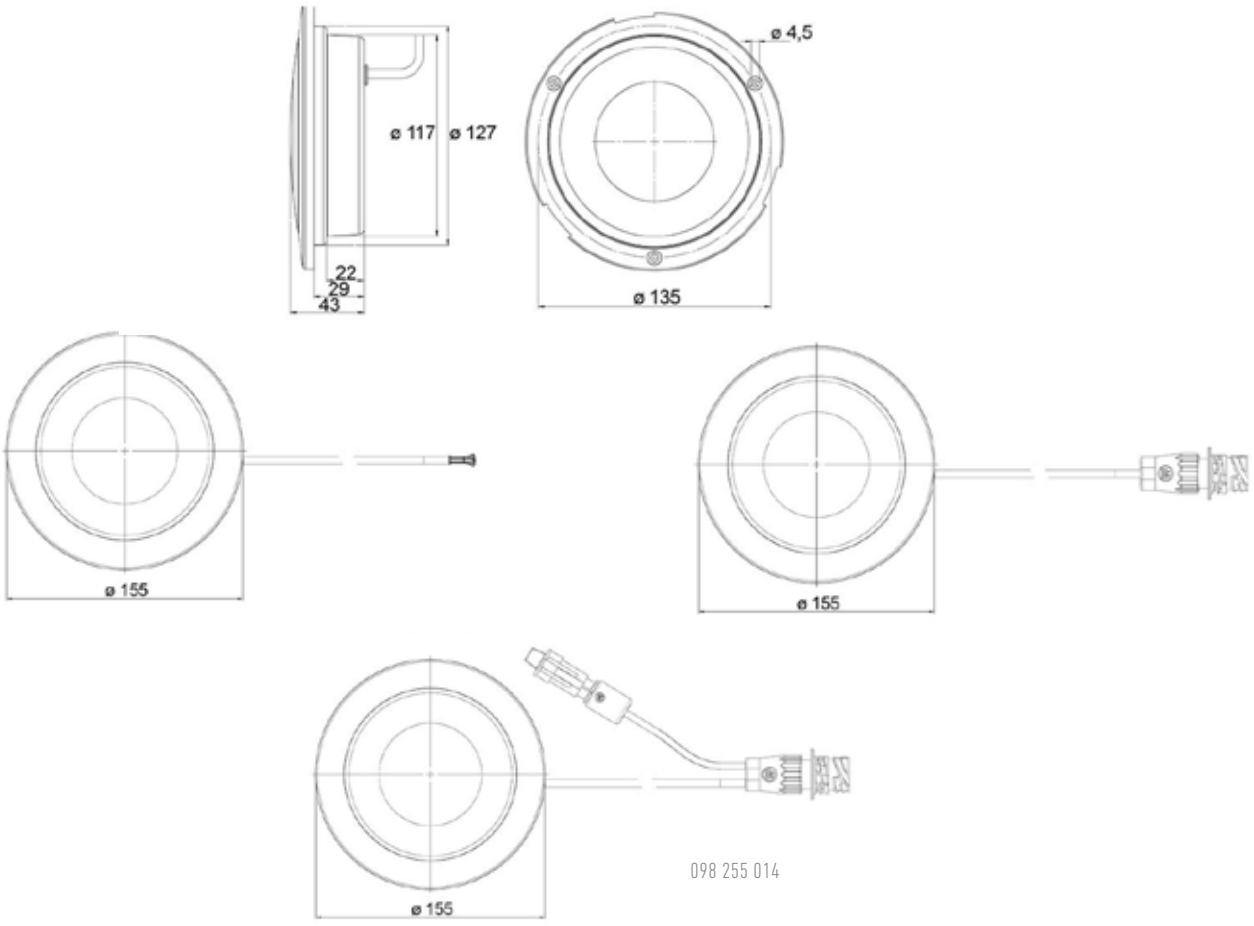
Functions						
Operating voltage	Position Stop Dir. indicator	Reverse Rear fog	Connection	Cable length	Pos.	Article no.
12/24V	✓		2.500 mm	Open end	1	098 212 022
12/24V	✓		2.000 mm	7 poled AMP 1.5 plug	1	098 212 027
12/24V	✓		200 mm	7 poled AMP 1.5 socket	1	098 212 028
12/24V		✓	2.500 mm	Open end	2	098 255 022
12/24V		✓	2.000 mm	7 poled AMP 1.5 plug	2	098 255 027
12/24V		✓	200 mm	7 poled AMP 1.5 socket	2	098 255 028

TM 7 Tail light LED 12/24V (Built-in)

E EMC

Pos. 1

Pos. 2



098 255 014

Description

Lens:	PMMA
Housing:	ABS
Dimension:	Ø155 x 43.2 mm
Buitl-in:	Ø127 mm
Bolt distance:	3 pcs. Ø4,5 mm with 120° spread in Ø135 mm
IP Rating:	IP69K
Working temperature:	-40°C - +65°C
Chrome ring:	Max Temperatur 80°C

TM 7 Tail light LED 12/24V (Built-in)

Functions

Operating voltage	Position Stop Dir. indicator	Reverse Rear fog	Cable length	Connection	Outlet Super Seal	Pos.	Article no.
12/24V	✓		2.500 mm	Open end		1	098 212 002
12/24V	✓		300 mm	7 poled AMP 1.5 socket		1	098 212 008
12/24V	✓		2.000 mm	7 poled AMP 1.5 plug		1	098 212 017
12/24V		✓	2.000 mm	7 poled AMP 1.5 plug		2	098 255 017
12/24V		✓	200 mm	7 poled AMP 1.5 socket		2	098 255 018
12/24V		✓	2.500 mm	Open end		2	098 255 002
12/24V		✓	1.200 mm	7 poled AMP 1.5 socket	200 mm cable with Super Seal socket for reverse alarm or reverse light	2	098 255 014

Spar parts

Chrome ring Ø155 mm	098 292 216

Installation of additional reverse light or reverse gear alarm to 098 255 014

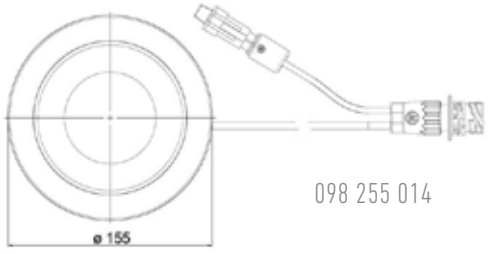
The reverse gear alarm or reverse light can if needed, easily be connected by using the reverse light 098 255 104, which has extra outlets with Super Seal socket

300 mm cable
with Super Seal socket **

098 256 255

250 mm cable
with Super Seal plug

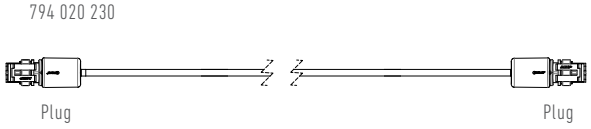
090 450 350

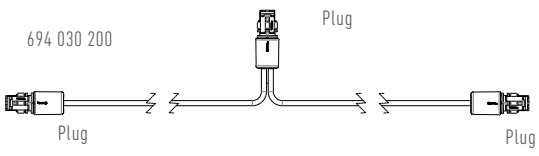


098 255 014

** Installation of reverse light to reverse and rear fog light 098 255 014

- possible by using the Y-adapter 894 005 230 or alternatively the extension cable with Super Seal plug 794 020 230 or 694 030 200 as shown below. More lengths are available.





Part numbers from original manufactures are for reference purpose only and may not be used in offers or other material

TM8 LED Tail light 12/24V

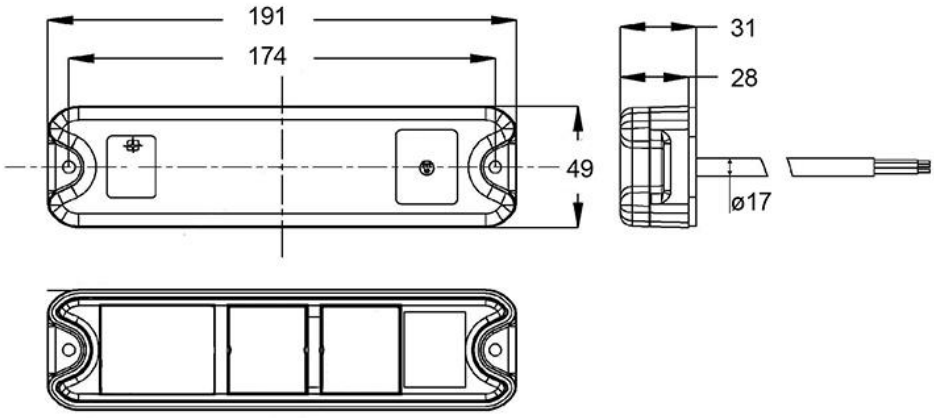
E EMC

Pos. 1

With 8 red and 6 yellow SMD LEDs

Pos. 2

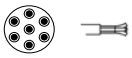
With 8 red and 9 white SMD LEDs



Description

Lens:	PMMA
Housing:	ABS
Dimension:	191 x 49 x 30 mm
Bolt distance:	174 mm / M5
IP-Rating:	IP69K

TM8 LED Tail light 12/24V



Functions								
Operating voltage	Positin Stop Dir. indicator	Reverse	Rear fog	Reflex reflector	Cable length	Connection	Pos.	Article no.
12/24V	✓			✓	200 mm	7 poled AMP 1.5 socket	1	098 212 274
12/24V		✓	✓	✓	200 mm	7 poled AMP 1.5 socket	2	098 255 274

Part numbers from original manufactures are for reference purpose only and may not be used in offers or other material

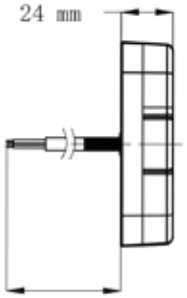
Tail light LED 12/24V - **ERMAX Square-Line**

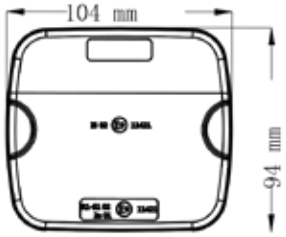
EMC E

Pos. 1

Pos. 2

Pos. 3 - Placed in front of the vehicle





Description

Lens: PMMA
Housing: ABS
Dimension: 105 mm x 95 mm x 25 mm
Bolt distance: 90 mm
IP Rating: IP67

Incl. cover for mounting

Functions

Operating voltage	Position Stop	Dir. indicator	Postion front	Reverse	Rear fog	Cable length	Connection	Pos	Article no.
12/24V	✓	✓				150 mm	Open end	1	098 212 470
12/24V				✓	✓	150 mm	Open end	2	098 255 470
12/24V		✓	✓			150 mm	Open end	3	098 222 470

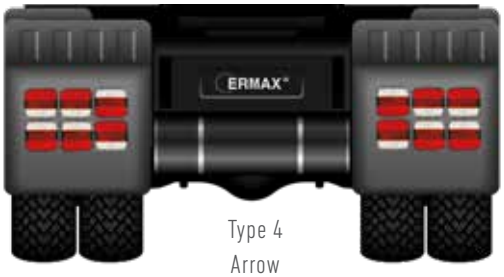
Flexible and individual installation opportunities with ERMAX Squareline

Design the rear end of the truck based on needs and demands

Type 1
Classic

Type 2
Slim Classic

Type 3
Wide Classic

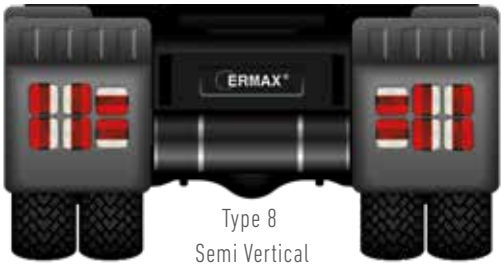


Type 4
Arrow

Type 5
Wide arrow

Type 6
Square

Type 7
Vertical



Type 8
Semi Vertical

OBS: If only vertical mounting, a separate legal reflector must be mounted

Part numbers from original manufactures are for reference purpose only and may not be used in offers or other material

TM14 Slim-Line Tail light 12/24V - full LED

Individual styling with TM14 Slim-line
The perfect solution for limited space

The ERMAX TM14 Slim-Line lighting series is ideal for individual modern styling of a vehicle and can be used for both surface mounting and built-in. The TM14 Slim-Line series is in full LED and offers highlights as a narrow, slim-line and modern design suitable for almost all applications – on the trailer as well as on the truck.

Due to the size and the slim design, there are many applications possibilities – especially where there are limited and narrow mounting surfaces.

The TM14 Slim-Line light can be mounted vertically, horizontally, and as high-mounted light – and fits with the various connection possibilities optimally with ERMAX' present cable system.

The stop light can also with advantage be use as high-mounted 3. stop light.

Position and / or stop light

Direct indicator light as standard or with dynamic direct indiacator light

Truck styled with TM14 position lights

Highlights

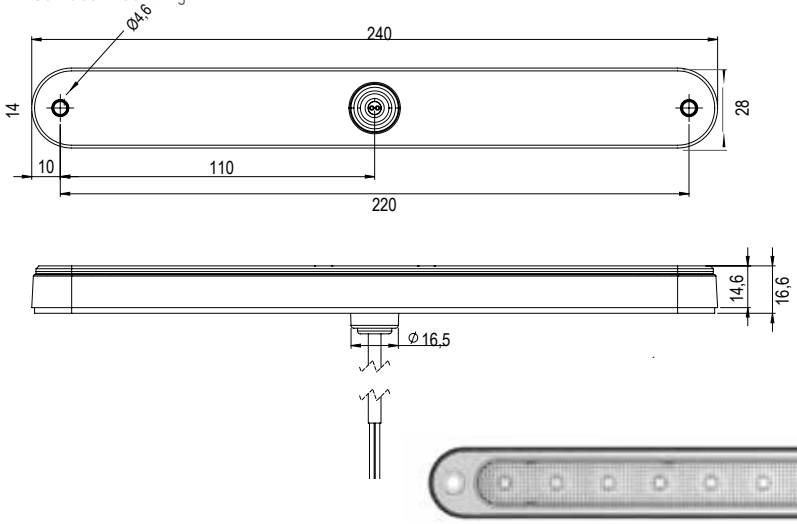
- Slim and modern design for practically any application
- Applicable for trailer and truck
- Time saving mounting with 2 poled or 3 poled Super Seal connection
- 5 m Open end versions for long wiring
- Especially suitable for vehicles with limited mounting space
- Various applications – surface mounting, built-in, horizontal and vertical mounting and as high-mounted light
- Ideal as high-mounted 3. stop light.
- Certified according to all relevant standards and regulations in Europe

TM14 Slim-line - Flexible and individual styling possibilities

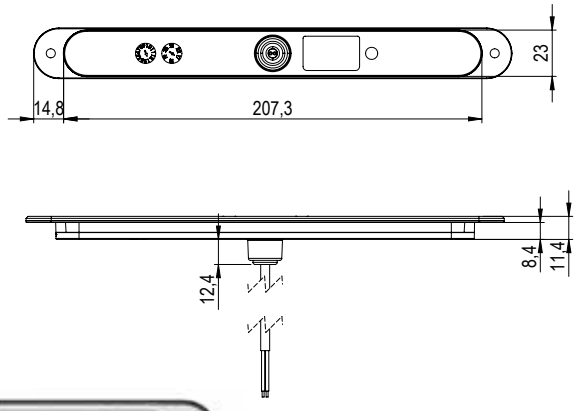
Design the "rear end" according to needs and demands

Position of more lights underneath each other means more effect of the nice, modern and dynamic direction indicator light

Surface mounting



Built-in



OBS - See all variants, connection possibilities and description on next page

Part numbers from original manufactures are for reference purpose only and may not be used in offers or other material

TM 14 Tail light LED 12/24V - Slim-line

E EMC

Description

Lens: Impact resistant polycarbonate
Housing: Impact resistant polycarbonate
Dimension
Surface mounting: 240 x 28 x 16,6 mm
Built-in: 208 x 23 x 8,4 mm
Bolt distance: 220 mm / Ø4,6
Working temperature: -40°C til +65C°
IP Rating: IP69K

Consumption per lighting function

Positions light: 0,6W
Stop light: 2,0W
Direction indicator light: 0,9W
Dynamic direction indicator light : 4,0W

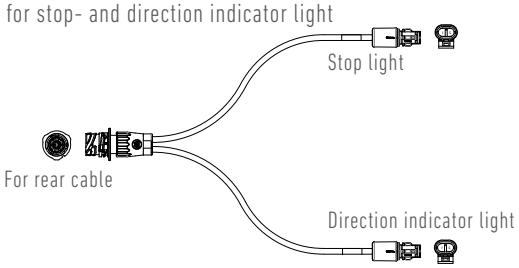
* Bi-polar connection

Functions

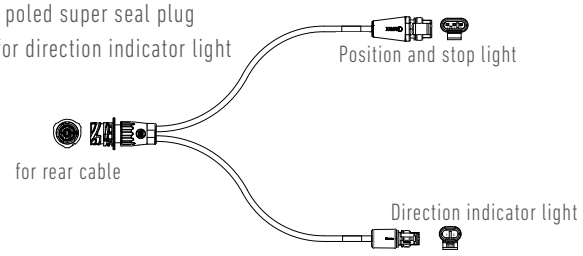
Operation voltage	Right → Left ←	Position	Stop	Dir. indica-tor	Dynamic dir. indicator **"NEW"**	Connection	Cable length	Pin-configuration / wire color pr. function	Article no.
12/24V	→ ←	✓	✓			3 poled Super Seal socket	300 mm	1 = Ground 2 = Position light 3 = Stop light	098 212 250
12/24V	→ ←	✓	✓			Open end	5.000 mm - 3 core	Brown = Ground Blue = Position Yellow/green= Stop	098 212 252
12/24V	→ ←	✓				2 poled Super Seal socket	300 mm		098 200 250
12/24V	→ ←	✓				Open end	5.000 mm - 2 core	Brown = Ground Blue= Position light	098 200 252
12/24V	→ ←		✓			2 poled Super Seal socket	300 mm		098 203 250
12/24V	→ ←		✓			Open end	5.000 mm - 2 core	Brown = Ground Blue = Stop	098 203 252
12/24V	→ ←			✓		2 poled Super Seal socket	300 mm		098 222 250
12/24V	→ ←			✓		Open end	5.000 mm - 2 core	Brown = Ground Blue = Dir. indicatir	* 098 222 252
12/24V	→ ←				✓	2 poled Super Seal socket	300 mm		* 098 222 260
12/24V	→ ←				✓	Open end	5.000 mm - 2 core	Brown = Ground Blue = Dir. indicator	* 098 222 262

Accessories - Adapter cable for installation of TM14 Slim-Line to rear cable (see detailed description in the section "cables universal")

994 003 282 - Adapter cable 300 mm,
7 poled AMP socket > 2 x Super Seal plug
with outlet for stop- and direction indicator light



994 003 285 - Adapter cable 300 mm,
7 poled AMP socket > 1 x 3 poled Super Seal plug with outlet for position and stop light + 1 x 2 poled super seal plug
with outlet for direction indicator light



LICENSE PLATE LIGHTS

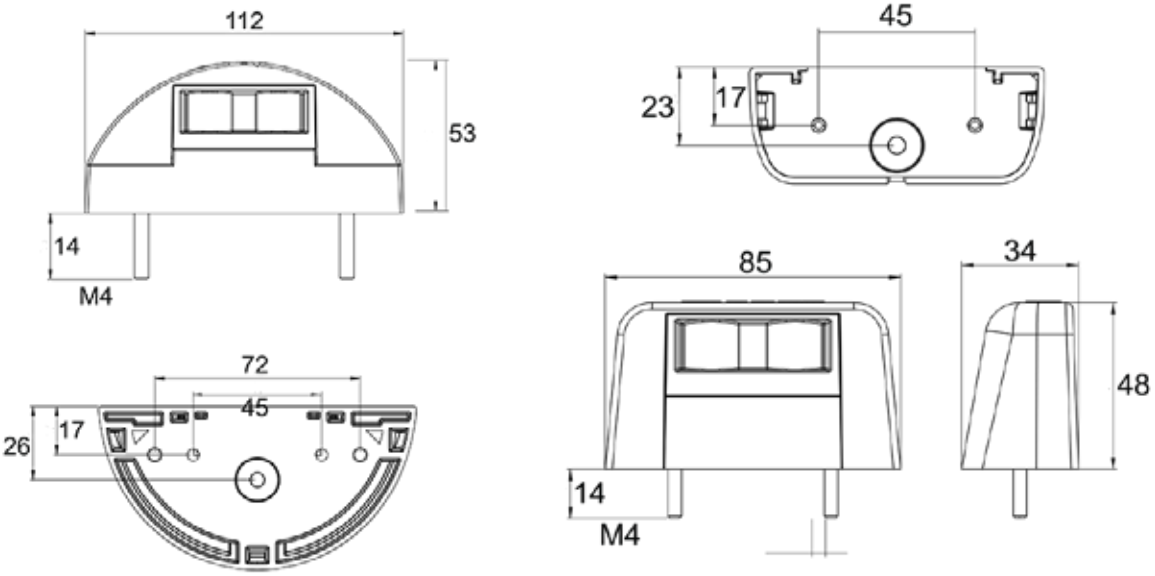
ERMAX®

License plate light LED 12/24V

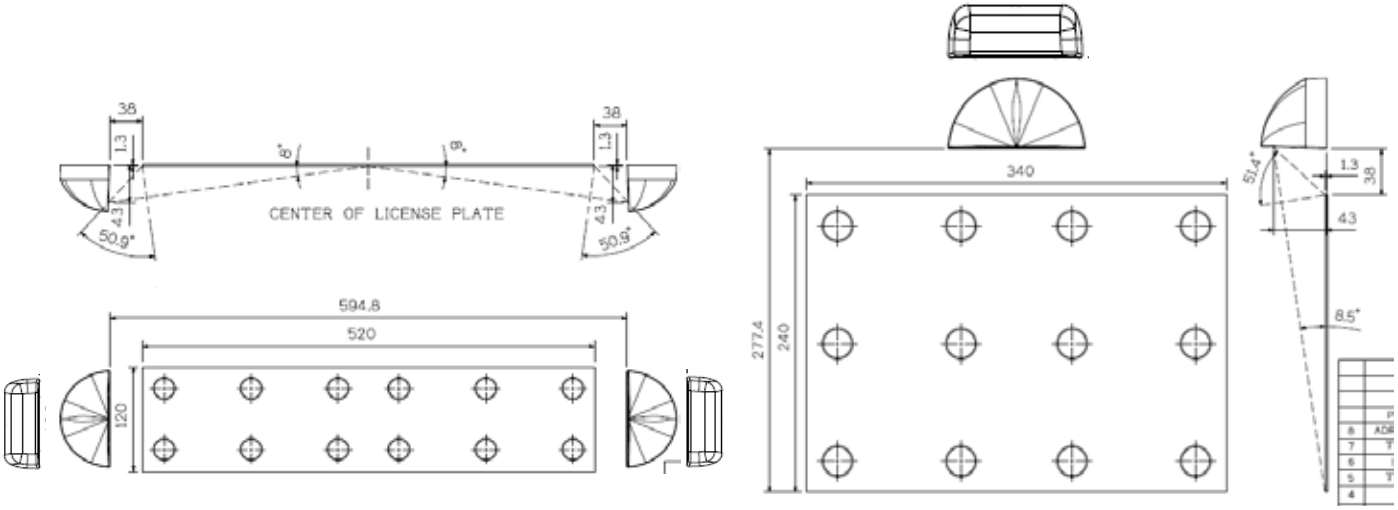
E EMC

Pos. 1

Pos. 2



Both types are certified for the application as shown:



License plate light LED 12/24V

Description

Lens: PMMA
Housing: ABS

Half-round design:
Dimension: 112 x 57 x 53 mm
Bolt distance: 45 mm oder 72 mm / M4

Square design:
Dimension: 85 x 34 x 48 mm
Bolt distance: 45 mm / M4

Functions

Operating voltage	IP-Rating	Connection	Cable length	Bolt distance	LED	Pos.	Article no.
12/24V	IP54	Click-in 1,5 mm²	500 mm	45 / 72 mm	2	1	098 254 330
12/24V	IP54	Click-in 1,5 mm²	500 mm	45 mm	2	2	098 254 340
12/24V	IP54	Click-in 1,5 mm²	1.500 mm	45 / 72 mm	2	1	098 254 332
12/24V	IP54	Click-in 1,5 mm²	1.500 mm	45 mm	2	2	098 254 342
12/24V	IP54	Super Seal socket	500 mm	45 / 72 mm	2	1	098 254 334
12/24V	IP54	Super Seal socket	500 mm	45 mm	2	2	098 254 344
12/24V	IP54	Super Seal plug	1.200 mm	45 / 72 mm	2	1	098 254 335
12/24V	IP54	Super Seal plug	1.200 mm	45 mm	2	2	098 254 345
12/24V	IP54	Super Seal plug	2.000 mm	45 / 72 mm	2	1	098 254 350
12/24V	IP54	Open end	2.500 mm	45 / 72 mm	2	1	098 254 336
12/24V	IP54	Open end	2.500 mm	45 mm	2	2	098 254 346
12/24V	IP54	Cable lead through rubber grommet	--	45 / 72 mm	2	1	098 254 338
12/24V	IP54	Cable lead through rubber grommet	--	45 mm	2	2	098 254 348

IP-Rating LED unit: IP69K

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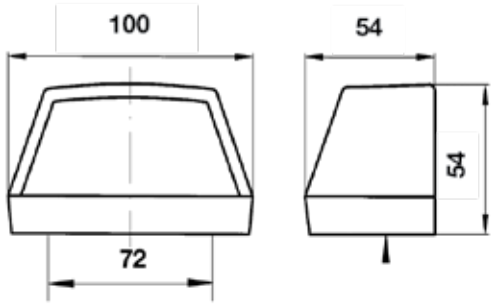
License plate light LED12/24V



Description

With red position light due to the colored housing

Lens: PMMA
Housing: ABS
Dimension: 100 x 54 x 54 mm
Bolt distance: 72 mm / M4

Functions

Operationg voltage	IP Rating	Light source	Connection	Cable length	Bolt distance	Article no.
24V	IP67	LED	Cable lead through rubber grommet	---	72 mm	**098 254 167**
24V	IP67	LED	Click-In	500 mm	72 mm	**098 254 251**

OUTER END MARKER LIGHTS

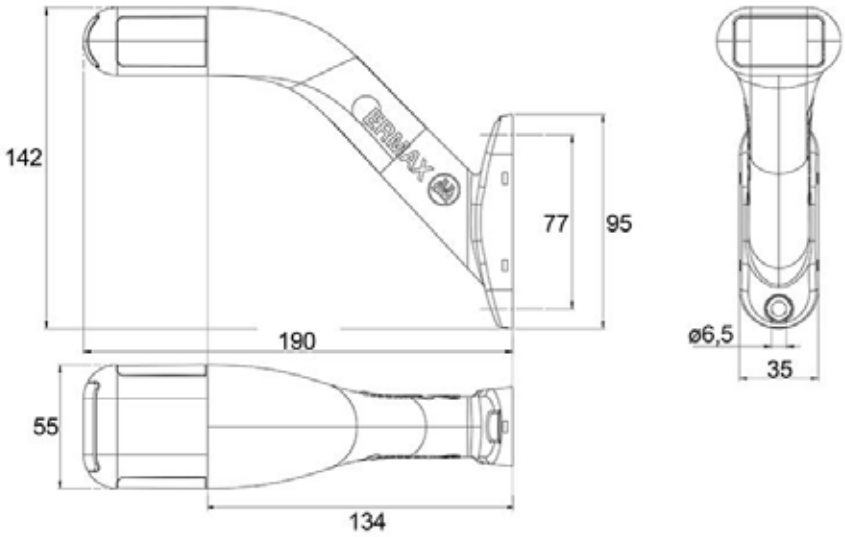
ERMAX®

Outer end marker light LED (45⁰) 12/24V - Cobra

Pos. 1

Pos. 2

Possibility of having the cable at the side of mounting foot



Description

With clear lens - lighting red, amber, white
Lens: Impact resistant polycarbonate
Housing: Rubber
Bolt distance: 77 mm / Ø 6,5

Outer end marker light LED (45⁰) 12/24V

Functions

Left ← Right →	Operating voltage	IP Rating	Connection	Cable length	Light color	Pos.	Article no.
←	12/24V	IP69K	Click-in 1,5 mm²	1.500 mm	red / white / amber	1	098 241 422
→	12/24V	IP69K	Click-in 1,5 mm²	1.500 mm	red / white / amber	1	098 241 423
←	12/24V	IP69K	Super Seal socket	1.500 mm	red / white / amber	1	098 241 425
→	12/24V	IP69K	Super Seal socket	1.500 mm	red / white / amber	1	098 241 426
←	12/24V	IP69K	Open end	1.500 mm	red / white / amber	1	098 241 427
→	12/24V	IP69K	Open end	1.500 mm	red / white / amber	1	098 241 428
←	12/24V	IP69K	Open end	5.000 mm	red / white / amber	1	098 241 429
→	12/24V	IP69K	Open end	5.000 mm	red / white / amber	1	098 241 430
→	12/24V	IP69K	Super Seal plug	300 mm	red / white / amber	1	098 241 448
←	12/24V	IP69K	Super Seal plug	300 mm	red / white / amber	1	098 241 449

Pos. 2

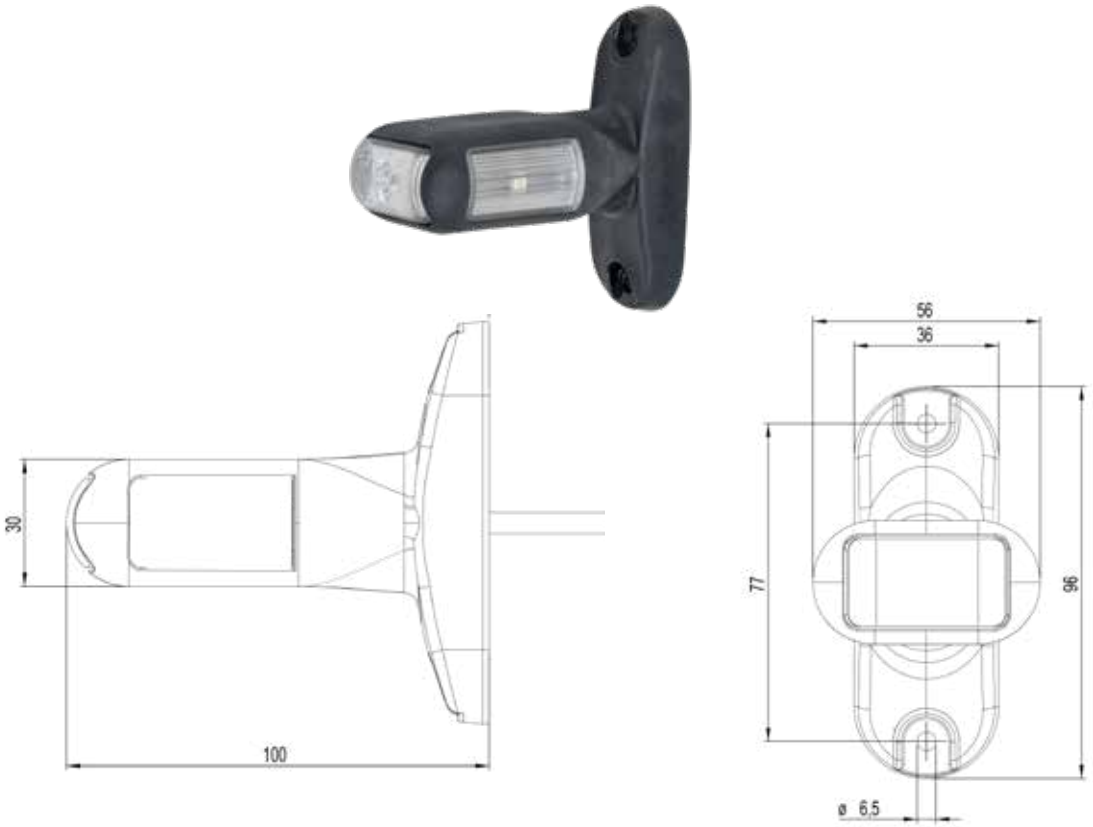
Suitable for mounting on flat surface, with the possibility of having the cable at the side of the mounting foot. Also there is the possibility to connect the outer end marker to the tail lights or the rear cable with Super Seal connection.

→	12/24V	IP69K	Super Seal plug	300 mm	red / white / amber	2	098 241 438
←	12/24V	IP69K	Super Seal plug	300 mm	red / white / amber	2	098 241 439

Part numbers from original manufactures are for reference purpose only and may not be used in offers or other material

Outer end marker light LED 12/24V - short Cobra

E EMC



Description

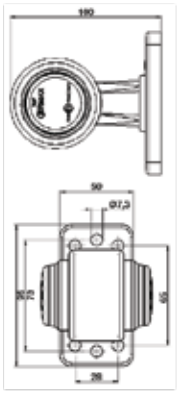
With clear lense - lighting red, amber and white
Lens: Impact resistant polycarbonate
Housing: Rubber
Bolt distance: 77 mm / Ø 6,5

Functions

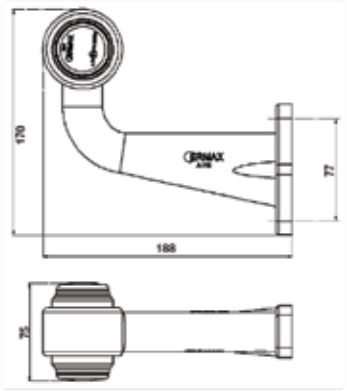
Left ← Right →	Operation voltage	IP Rating	Connection	Cable length	Light color	Article no.
← →	12/24V	IP69K	Super Seal socket	500 mm	red / white / amber	098 241 205
← →	12/24V	IP69K	Super Seal socket	1.500 mm	red / white / amber	098 241 215
← →	12/24V	IP69K	Click-in 1,5 mm²	1.500 mm	red / white / amber	098 241 211
← →	12/24V	IP69K	Open end	1.500 mm	red / white / amber	098 241 216
← →	12/24V	IP69K	Open end	5.000 mm	red / white / amber	098 241 217
← →	12/24V	IP69K	Super Seal plug	300 mm	red / white / amber	098 241 218

Outer end marker light LED 12/24V - Classic 1

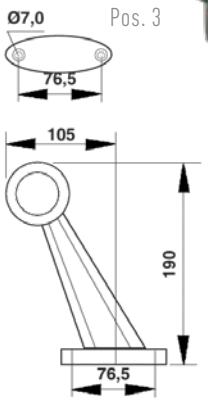
Pos. 1



Pos. 2



Pos. 3



Pos. 4

Pos. 5

Description

Lens: PMMA
Housing: Rubber
Bolt distance: 77 mm / Ø 7

Functions

Left ← Right →	Operation voltage	IP Rating	Connection	Cable length	Light color	Pos.	Article no.
← →	12/24V	IP67	Super Seal socket	500 mm	red / white	1	098 241 005
← →	12/24V	IP67	Open end	1.500 mm	red / white	1	098 241 000
← →	12/24V	IP67	Open end	1.500 mm	red / white	2	098 241 050
← →	12/24V	IP67	Super Seal socket	500 mm	red / white	2	098 241 055
← →	12/24V	IP67	Super Seal plug	300 mm	red / white	2	098 241 056
← →	12/24V	IP67	Open end	1.500 mm	red / white	3	098 241 090

Spare parts

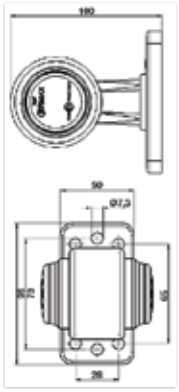
LED - red unit with 1.250 mm connection cable	4	098 291 012
LED - clear unit with 1.250 mm connection cable	5	098 291 016

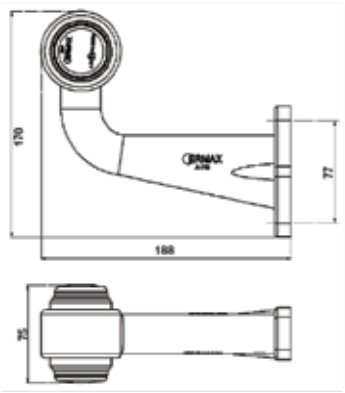
Part numbers from original manufactures are for reference purpose only and may not be used in offers or other material

Outer end marker light LED 12/24V - Classic 2

Pos. 1

Pos. 2





Description

Lens: PMMA
Housing: Rubber
Bolt distance Pos 1: 77 mm
Bolt distance Pos 2: 77 mm
Bolt distance Pos 3: 77 mm

2 impact resistance LED units per light

Pos. 4

Pos. 5

Pos. 6

Functions

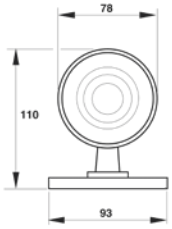
Left ← Right →	Light source	IP Rating	Operating voltage	Connection	Cable length	Light color	Pos.	Article no.
← →	LED	IP67	12/24V	Open end	1500 mm	red / white	1	098 241 600
← →	LED	IP67	12/24V	Open end	1500 mm	red / white	2	098 241 650

Spare parts

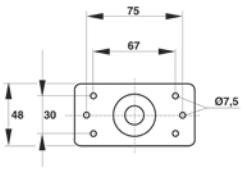
Rubber grommet for 098 241 014	4	098 291 119
LED unit, red	5	098 291 015
LED unit, white	6	098 291 031

Outer end marker light / Direction indicator light LED 12/24V - Classic XL

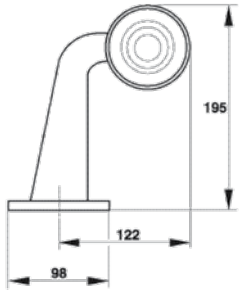
Pos 1



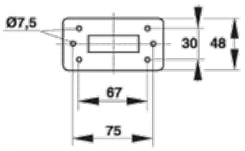
Pos. 3



Pos 2



Pos. 4



Pos. 5

Pos. 6

Pos. 7

Pos. 8

Description

Lens: PMMA
Housing: Rubber
2 variants - short straight variant (possible to turn 360°) - angled variant 45°
2 impact resistant LED units in each outer end marker light - 6 LEDs per LED unit

Functions - outer end marker light

Left ← Right →	Light source	IP Rating	Operation voltage	Connection	Cable length	Light color	Pos	Article no.
← →	LED	IP67	12/24V	Open end	500 mm	red / white	1	098 241 800
← →	LED	IP67	12/24V	Open end	2500 mm	red / white	1	098 241 802
← →	LED	IP67	12/24V	Open end	500 mm	red / white	2	098 241 850
← →	LED	IP67	12/24V	Open end	2500 mm	red / white	2	098 241 852

Functions - direction indicator light

← →	LED	IP67	12/24V	Open end	1.500 mm	amber	3	098 221 800
← →	LED	IP67	12/24V	Open end	1.500 mm	amber	4	098 221 076

Spare parts

LED unit, red (outer end marker light)	5	098 291 041
LED unit, white (outer end marker light)	6	098 291 040
LED unit, amber	7	098 291 066
Rubber grommet for 098 221 076	8	098 291 119

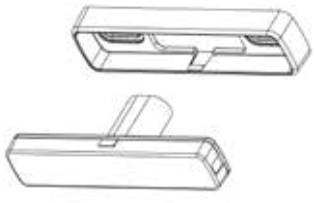
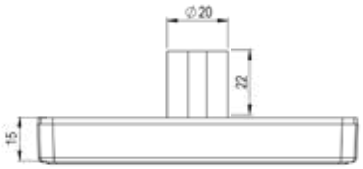
Part numbers from original manufactures are for reference purpose only and may not be used in offers or other material

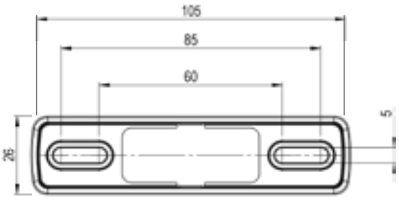
POSITION & SIDE MARKER LIGHTS

ERMAX®

Positions and side marker lights LED - 12/24V

Standard frame with Super Seal socket

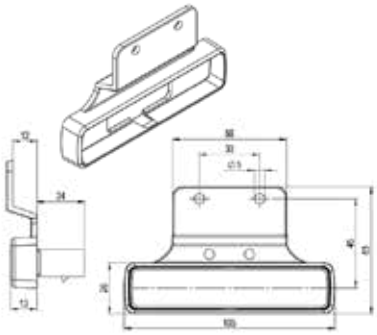
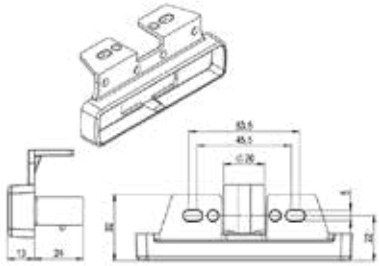
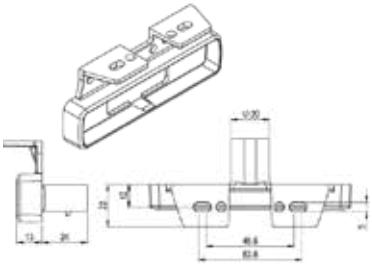





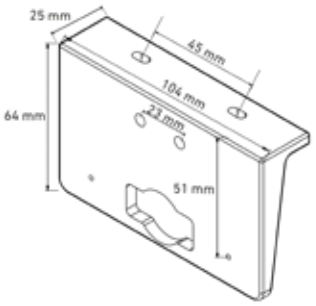
Mounting bracket straight

90⁰ bracket backwards

90⁰ bracket forwards

- Mounting without visible screws
- 2 LEDs
- 4 mounting variants
- 3 cable versions
- IP69K Rating



Universal rubber holder

Beskrivelse

2 LEDs og reflex reflector

Lens:	PMMA
Housing:	ABS
Bracket/frame:	PP
Dimension with standard frame:	105 x 26 x 13 mm
Variable bolt distance:	60-85 mm
IP Rating:	IP69K

Positions and side marker lights LED - 12/24V

Functions

Mounting bracket	Connection	Cable length	Operating voltage	Side marker Amber	Position light White	Position light Red
Standard frame	Super Seal socket	---	12/24V	098 221 726	098 230 726	098 204 726
Straight	Super Seal socket	----	12/24V	098 221 742		
90° backwards	Super Seal socket	----	12/24V	098 221 748		
90° forwards	Super Seal socket	----	12/24V	098 221 756		
Standard frame	Super Seal socket	500 mm	12/24V	098 221 727		
90° backwards	Super Seal socket	1.500 mm	12/24V	098 221 745		
Standard frame	Super Seal socket	500 mm	12/24V	098 221 7274		
Standard frame	Super Seal plug	5.000 mm	12/24V		098 230 736	
Standard frame	Click-in	500 mm	12/24V	098 221 720	098 230 720	098 204 720
Standard frame	Click-in	1.500 mm	12/24V	098 221 722	098 230 722	098 204 722
Standard frame	Click-in	5.000 mm	12/24V	098 221 724	098 230 724	098 204 724
straight	Click-in	1.500 mm	12/24V	098 221 740		
90° backwards	Click-in	500 mm	12/24V	098 221 744		
90° backwards	Click-in	1.500 mm	12/24V	098 221 746		
90° forwards	Click-in	500 mm	12/24V	098 221 752		
90° forwards	Click-in	1.500 mm	12/24V	098 221 754		
Standard frame	Open end	500 mm	12/24V	098 221 730		
Standard frame	Open end	2.500 mm	12/24V	098 221 732	098 230 732	098 204 732 *
Standard frame	Open end	5.000 mm	12/24V	098 221 734	098 230 734	098 204 734
Standard frame	Super Seal plug	2.500 mm	12/24V		098 230 728	

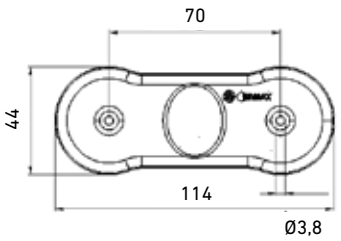
Spare parts

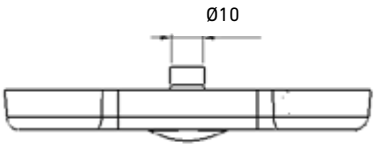
Standard frame	098 292 700
Mounting bracket, straight, bolt distance 30 mm	098 292 701
Mounting bracket - 90° backwards, bolt distance 30-55 mm	098 292 702
Mounting brakcet - 90° forwards, bolt distance 30-55 mm	098 292 703
Universal rubber holder - 90° backwards, bolt distance 45-55 mm	098 292 629

Part numbers from original manufactures are for reference purpose only and may not be used in offers or other material

Positions and side marker lights LED - 12/24V

E EMC

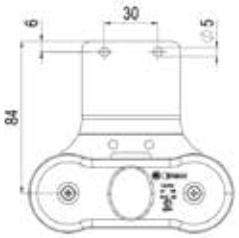


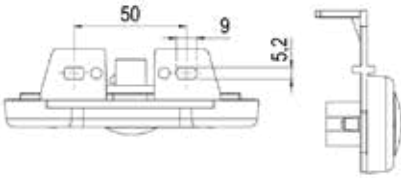


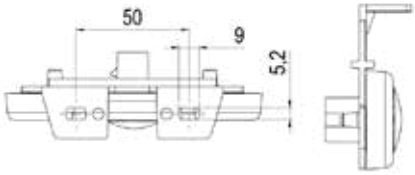
Mounting bracket straight

90⁰ bracket backwards

90⁰ bracket forwards

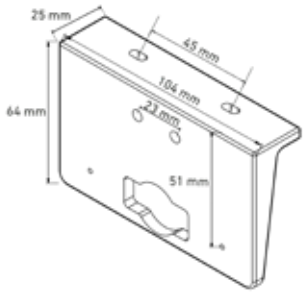






- Standard mounting
- 2 LEDs
- 4 mounting variants
- 4 cable versions
- IP69K Rating

Universal rubber holder



Description

2 LEDs og reflex reflector

Lens:	PMMA
Housing:	ABS
Mounting bracket:	PP
Dimension with standard frame:	114 x 44 x 16 mm
Bolt distance:	70 mm
IP Rating:	IP69K

Screws for mounting should be Ø4 mm

Positions and side marker lights LED - 12/24V

Functions						
Mounting bracket	Connection	Cable length	Operating voltage	Side marker Amber	Position light White	Position light Red
Without mounting bracket	Super Seal socket	- - -	12/24V	098 221 620	098 230 401	098 204 501
Straight	Super Seal socket	- - -	12/24V	098 221 630		
90° backwards	Super Seal socket	- - -	12/24V	098 221 640	098 230 430	
90° forwards	Super Seal socket	- - -	12/24V	098 221 650		
Without mounting bracket	Super Seal socket	500 mm	12/24V	098 221 635		
Without mounting bracket	Super Seal socket	1.500 mm	12/24V	098 221 628	098 230 428	
90° forwards	Super Seal socket	1.500 mm	12/24V	098 221 664		
90° backwards	Super Seal socket	1.500 mm	12/24V	098 221 662		
Without mounting bracket	Super Seal plug	2.500 mm	12/24V		098 230 418	
Without mounting bracket	Super Seal plug	5.000 mm	12/24V	098 221 627		
Without mounting bracket	Super Seal plug	10.000 mm	12/24V	098 221 629	098 230 431	
Without mounting bracket	Click-in	500 mm	12/24V	098 221 621	098 230 405	098 204 502
Without mounting bracket	Click-in	1.500 mm	12/24V	098 221 622	098 230 415	098 204 503
Without mounting bracket	Click-in	5.000 mm	12/24V	098 221 623	098 230 450	098 204 504
Straight	Click-in	500 mm	12/24V	098 221 631		
90° backwards	Click-in	500 mm	12/24V	098 221 641		
90° backwards	Click-in	1.500 mm	12/24V	098 221 642		
90° forwards	Click-in	500 mm	12/24V	098 221 651		
90° backwards	Click-in	1.500 mm	12/24V	098 221 652		
Without mounting bracket	Open end	500 mm	12/24V	098 221 624	098 230 420	098 204 505
Without mounting bracket	Open end	1.500 mm	12/24V	098 221 625	098 230 425	
Without mounting bracket	Open end	2.500 mm	12/24V			098 204 506
Without mounting bracket	Open end	5.000 mm	12/24V	098 221 626	098 230 427	098 204 507

Part numbers from original manufactures are for reference purpose only and may not be used in offers or other material

Spare parts positions and side marker lights LED - 12/24V

Function

Pos. 1 - Straight

Pos. 2 - Backwards 90⁰

Pos. 3 - Forwards 90⁰

Pos. 4

Pos. 5

Pos. 6

Pos. 7

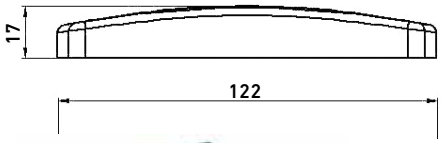
Pos. 8

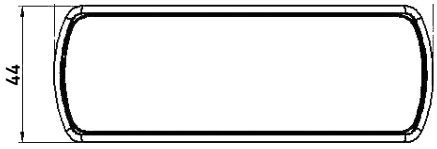
Example with position light . 7 + 8

Spare parts	Pos.	
Mounting bracket, straight, bolt distance 30 mm	1	098 292 622
Mounting bracket - 90° backwards, bolt distance 30-55 mm	2	098 292 620
Mounting bracket - 90° forwards, bolt distance 30-55 mm	3	098 292 621
Seal - black rubber - 10 pcs per packing unit	4	098 292 626
Rivet Ø4 mm, black plastic - 20 pcs per packing unit	5	098 291 602
Rivet Ø4 mm, black plastic - 100 pcs per packing unit	5	098 291 610
Mounting bracket, rubber, for mudwingholders. Usuable with Ermax front position marker	6	098 292 627
Universal rubber bracket - 90° backwards, bolt distance 45-55 mm	7	098 292 629
Mounting bracket, rubber, for mudwingholders. Usuable with Ermax front position marker	8	098 292 628

Positions and side marker lights LED - 12/24V 9-33V

Flat mounting - without mounting bracket





Backwards 90°

Pos 1

4 LEDs and reflex reflector
Lens: PMMA
Housing: PP
Dimension without bracket: 122 x 44 x 17 mm
Variable bolt distance: 65 - 90 mm
IP Rating: IP67
Dual-polarity

Functions

Mounting bracket	Connection	Cable length	Operating voltage	Light source	Position White	Side marker Amber	Position Red
Flat mounting	Open end	500 mm	9-33V	4 x LED	098 230 601	098 221 601	098 203 601
Flat mounting	Open end	5.000 mm	9-33V	4 x LED	098 230 605	098 221 605	098 203 605
Flat mounting	Open end	10.000 mm	9-33V	4 x LED		098 221 610	
90° backwards	Open end	500 mm	9-33V	4 x LED		098 221 611	

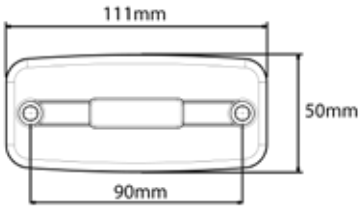
Spare parts

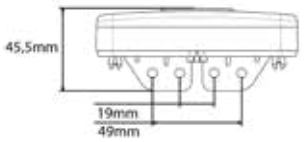
Protective housing in stainless steel - suitable for flat mounted position and side marker lights	Pos 1	098 291 912

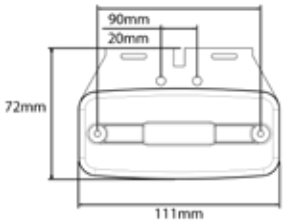
Part numbers from original manufactures are for reference purpose only and may not be used in offers or other material

Positions and side marker lights LED - 12/24V

E SM1







Pos 1

3 LEDs and reflex reflector

Lens: PMMA
Housing: Black plastic
Dimension: Without bracket 111 x 50 x 23,2 mm
Bolt distance: 90 mm
IP Rating: P67

Functions

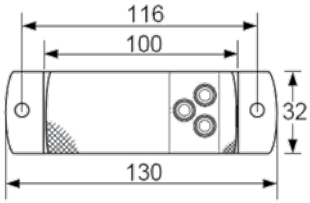
Mounting bracket	Connection	Cable length	Operating voltage	Light source	Position White	Side marke Amber	Position Red
Flat mounting	Open end	500 mm	12/24V	3 LEDs	098 230 960	098 221 940	098 200 950
Flat mounting	Open end	5.000 mm	12/24V	3 LEDs	098 230 961	098 221 941	098 200 951
Flat mounting	Open end	10.000 mm	12/24V	3 LEDs	098 230 964	098 221 944	098 200 954
90° backwards	Open end	500 mm	12/24V	3 LEDs		098 221 942	
90° backwards	Open end	5.000 mm	12/24V	3 LEDs		098 221 943	

Spare parts

Angled bracket with rivet		098 291 949
Protective housing, steel plate, untreated - suitable for flat mounted position and side marker lights	Pos 1	098 291 907
Protective housing in galvanized steel plate - suitable for flat mounted position and side marker lights	Pos 1	098 291 906
Gasket		098 291 311

Positions and side marker lights LED - 12/24V

E SM1



Pos 1

3 LEDs without reflex reflector

Lens: PMMA

Housing: Black plastic

Dimension: Without bracket B x H x D: 130 x 32 x 7 mm

Bolt distance: 90 mm

IP Rating: IP67

Functions

Surface mounting	Connection	Cable length	Operating voltage	Light source	Position White	Side marker Amber	Position Red
Horizontal	Open end	500 mm	12/24V	3 LEDs	098 231 873		098 201 873
Horizontal	Open end	1.500 mm	12/24V	3 LEDs		098 221 874	
Horizontal	Open end	5.000 mm	12/24V	3 LEDs	098 231 875	098 221 876	098 201 875
Horizontal	Open end	10.000 mm	12/24V	3 LEDs		098 221 896	
Vertical	Open end	1.500 mm	12/24V	3 LEDs		098 221 884	

Spare parts

Angled bracket forwards 90^0	Pos 1	098 291 278

Part numbers from original manufactures are for reference purpose only and may not be used in offers or other material

REVERSE & WORK LIGHT

Lumen specification

The reversing lights in the following section are specified with a theoretical and an effective lumen.

The theoretical lumen is the calculated lumen of the light source.

The effective lumen is the light measured outside the lens

ERMAX®

Standard product programme with a large flexibility

Compact design, universally applicable and various connection possibilities

ERMAX reversing lights and work lights are avaiable in 3 design types with different light performance / lumen

LED Reverse light

Lumen:
Theoretical 650 / effective 300

LED Work light

Lumen:
Theoretical 800 / effective 600

LED Work light

Lumen:
Theoretical 1.600 / effective 1.200

Approved as reversing light (ECE-R23) with 30° angling by vertical mounting

LED Work light

Lumen:
Theoretical 2.400 / effective 1.800

Approved as reversing light (ECE-R23)
with 35° angling by vertical mounting

This type is also available with handle and on/off switch

LED Work ligh

Lumen:
Theoretical 3.200 / effective 2.400

Universally applicable

Mounting options

ERMAX working light have a compact design with meaures that they can be mounted in a very narrow place. The compact design and symmetric light destribution give a large degree of flexibility when mounting. The work lights can be standing, hanging, rear or side mounted.

Mounting options ERMAX work lights

Standing

Hanging

Side

Rear

Easy maintenance

Various connection varations

ERMAX work lights are available with various connection variations - connection cable with open end, Super Seal or Deutsch socket.

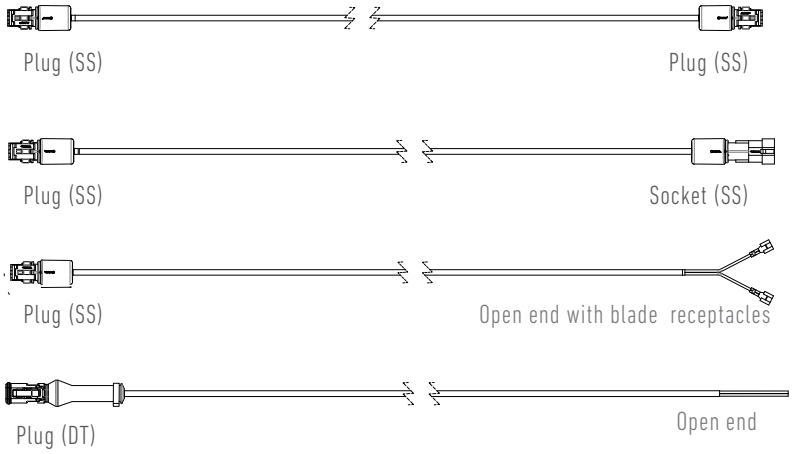
For connections variants, ERMAX always offers a standard cable length of 300 milimeters to the first plug connection. The cable length can be adjusted according to need by means of standard extension cable or adapter cable. This ensures optimum ease of maintenance.

The large variety of cable soulations ensures the best installation without having to adjust the cable lenght (see section with cables for all available cable lengths)

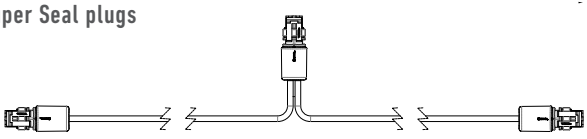
Connection / Extension possibilities ERMAX work lights

Super Seal socket

Extension cable with Super Seal plug or Deutsch DT2 plug

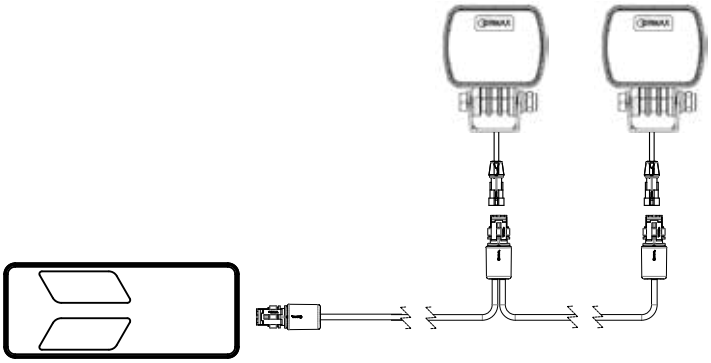


Y-Adapter with 3 Super Seal plugs



Reverse light connected as a chain

-connected by a side cable with 1 inlet and 2 outlets with Super Seal plugs



2 pcs. of ERMAX reverse lights or work lights are allowed to be connected to an ERMAX tail light (max 52 W)

Technical features ERMAX reverse lights and work lights

Technical specifications – Common to all variants

- Impact-resistant lens made of polycarbonate
- Housing made of aluminium – black lacquer (anto corrosion layers)
- Mounting bracket made of stainless steel, AISI 304 quality
- Mounting bolts 8 mm / 30 mm
- Multivolt 12 / 24 V
- Working temperature –40 °C til +65 °C
- Flood light pattern
- Color temperature 6.500 ^{0} Kelvin
- IP-Rating IP69K
- Overheating and reverse polarity protection
- ADR and EMC/R10 approved
- ECE-R23 approved

Advantages of the newest LED light technology
- Which are optimally utilised in the Ermax reverse lights and work lights

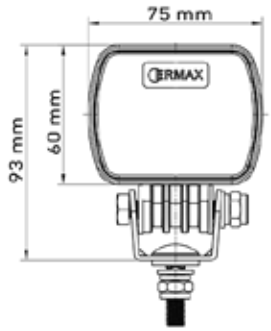
The advantages of the newest LED technology, which are optimally utilised in the ERMAX reverse lights and work lights - result in a product with a very high quality and extremely long life - and thus cost-effectiveness, which is a real highlight.

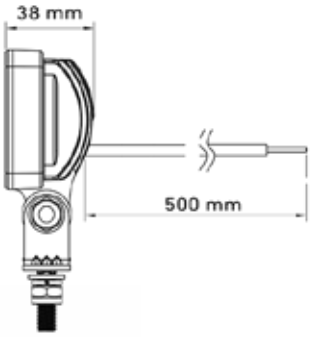
- High light output
- Extremely long lifetime
- 100% water & dustproof
- Low power consumption
- Maintenance free
- Hight shock and vibration resistance
- Effective heat conduction
- Increased profitabolity

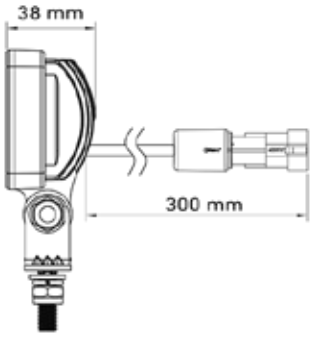
Reverse Lights LED - Housing made of Aluminium
Lumen 650

EMC

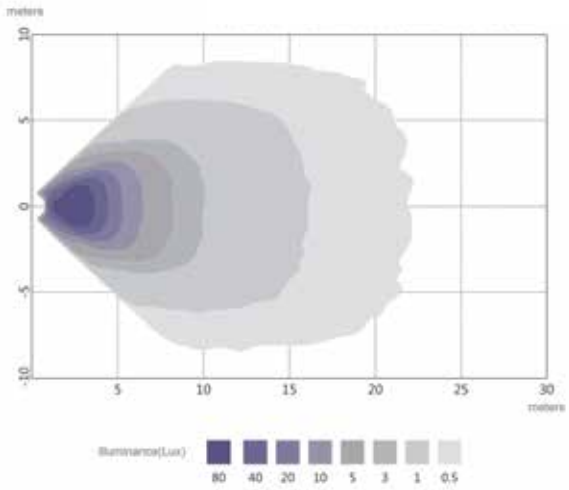
Unbeatable







Illumination



Bird's eye view 1,2 meter above the ground with an incline angle of 5°

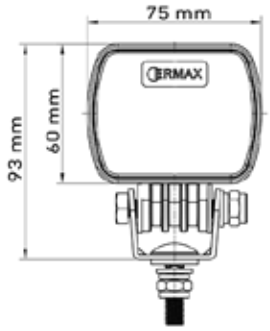
Functions EMC

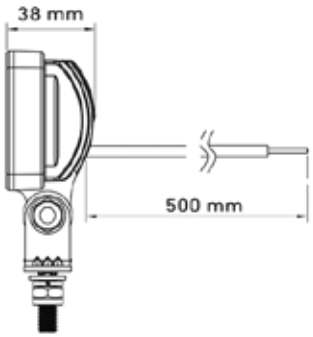
Operating voltage	Consumption	Connection	Cable length	Light source	Lumen, Theoretical / effective	Light pattern	Article no.
12 / 24 V	6,5 W	Open end	500 mm	6 High Power LED	650 / 300	Flood	098 256 250
12 / 24 V	6,5 W	Super Seal plug	300 mm	6 High Power LED	650 / 300	Flood	098 256 254
12 / 24 V	6,5 W	Super Seal socket	300 mm	6 High Power LED	650 / 300	Flood	098 256 255

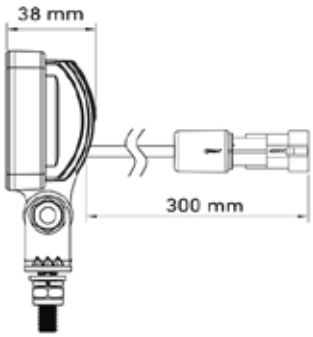
Reverse Lights LED - Housing made of Aluminium
Lumen 800

EMC

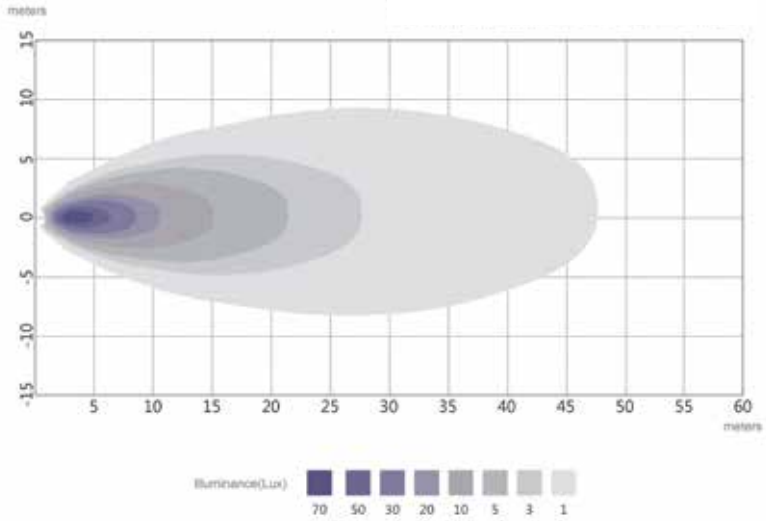
Unbeatable







Illumination



Bird's eye view 1,2 meter above the ground with an incline angle of 5°

Functions EMC

Operating voltage	Consumption	Connection	Cable length	Light source	Lumen, Theoretical / effective	Light pattern	Article no.
12 / 24 V	8 W	Open end	500 mm	6 High Power LED	800 / 600	Flood	**098 174 250**
12 / 24 V	8 W	Super Seal plug	1.000	6 High Power LED	800 / 600	Flood	**098 174 254**
12 / 24 V	8 W	Super Seal socket	300 mm	6 High Power LED	800 / 600	Flood	**098 174 255**

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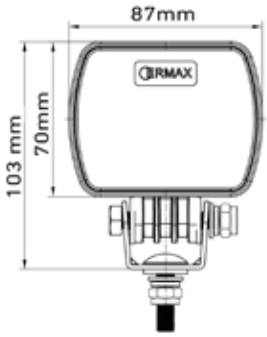
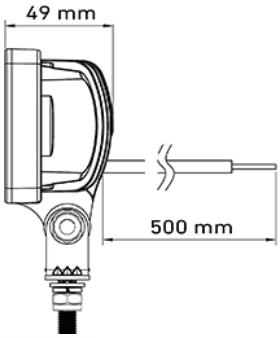
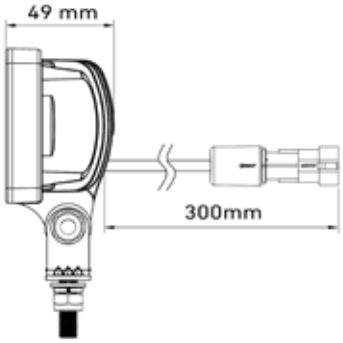
Reverse Lights LED - Housing made of Aluminium
Lumen 1.600

EMC

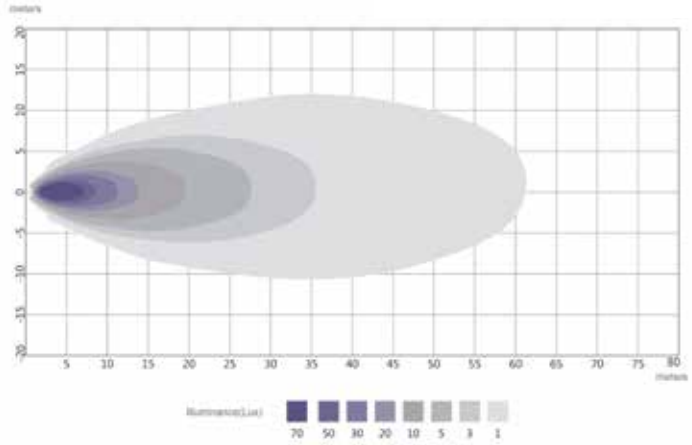
Unbeatable



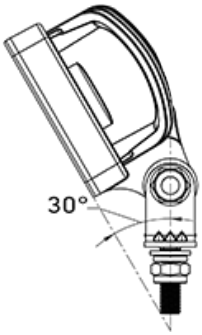




Illumination



Bird's eye view 1,2 meter above the ground with an incline angle of 5°

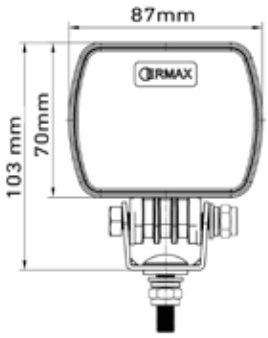


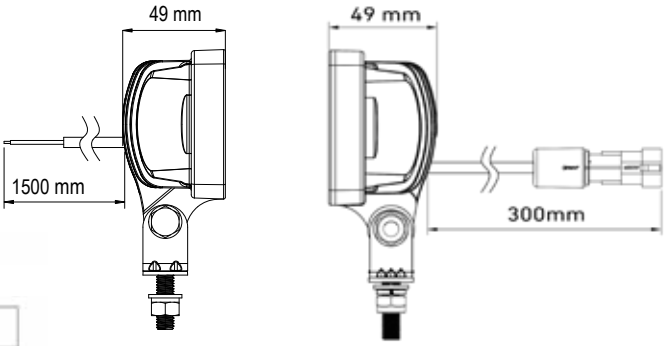
Approved as reverse light with 30° tilt when vertical mounted

Function							EMC
Operating voltage	Con-sumption	Connection	Cable length	Light source	Lumen, Theoretical / effective	Light pattern	Article no.
12 / 24 V	16 W	Open End	500 mm	9 High Power LED	1.600 / 1.200	Flood	098 174 260
12 / 24 V	16 W	Super Seal plug	1.000 mm	9 High Power LED	1.600 / 1.200	Flood	098 174 264
12 / 24 V	16 W	Super Seal socket	300 mm	9 High Power LED	1.600 / 1.200	Flood	098 174 265
12 / 24 V	16 W	Integrated DT (DT) socket	--	9 High Power LED	1.600 / 1.200	Flood	098 174 267

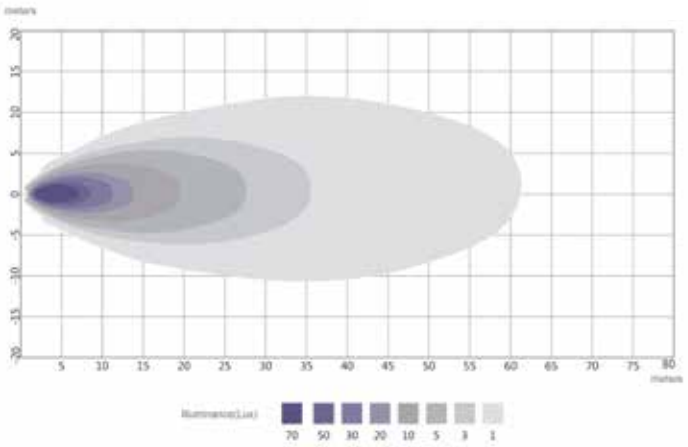
LED Work Lights – Housing made of plastic

Lumen: 1.600

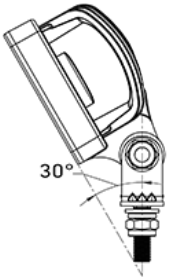




Lysfordeling



Bird's eye view 1.2 metres above the ground with an incline angle of 5^0



Approved as reversing light
- with 30° tilt when vertically-mounted

Funktion ECE EMC

Operating voltage	Con-sumption	Connection	Cable length	Light source	Lumen, Theoretical / effective	Light pattern	Article no.
12 / 24 V	16 W	Open End	1.500 mm	9 High Power LED	1.600 / 1.200	Flood	**098 174 290**
12 / 24 V	16 W	Super Seal plug	6.000 mm	9 High Power LED	1.600 / 1.200	Flood	**098 174 293**
12 / 24 V	16 W	Super Seal socket	300 mm	9 High Power LED	1.600 / 1.200	Flood	**098 174 295**
12 / 24 V	16 W	Integrated DT (DT) socket	--	9 High Power LED	1.600 / 1.200	Flood	**098 174 297**

Part numbers from original manufactures are for reference purpose only and may not be used in offers or other material

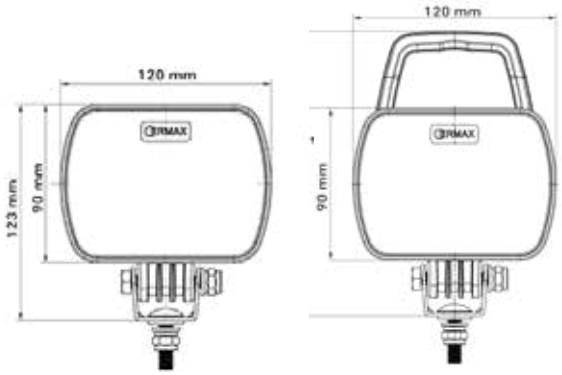
Reverse Lights LED - Housing made of Aluminium
Lumen 2.400

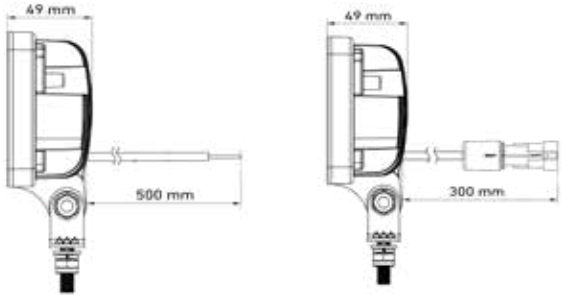
EMC

Unbeatable

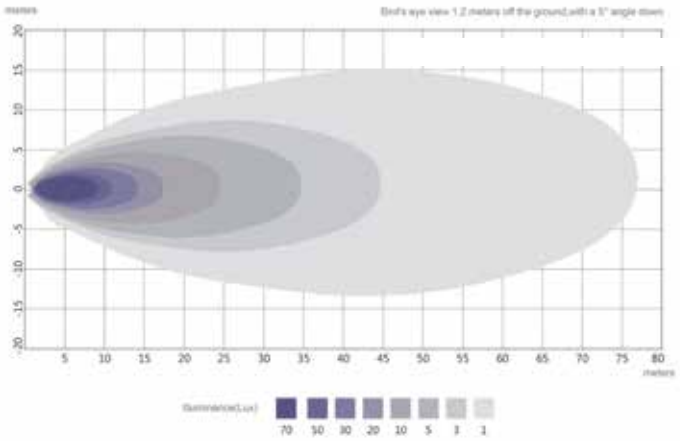
Pos. 1
Without on/off switch

Pos. 2
With bracket and of/
off switch

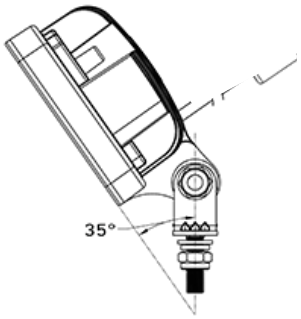




Illumination



Bird's eye view 1,2 meter above the ground with an incline angle of 5°

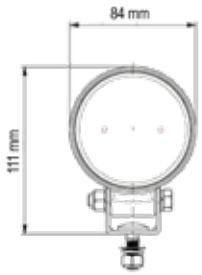


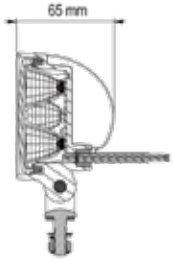
Approved as reverse light with 30° tilt when vertical mounted

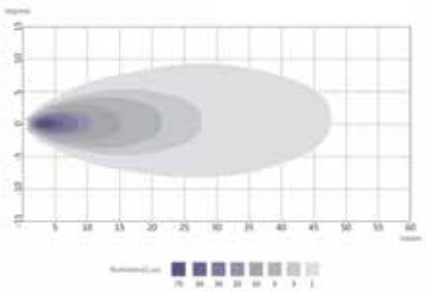
Function								EMC
Operating voltage	Consumption	Connection	Cable length	Light source	Lumen, Theoretical / effective	Light pattern	Pos.	Article no.
12 / 24 V	25 W	Open end	500 mm	12 High Power LED	2.400 / 1.800	Flood	1	098 174 270
12 / 24 V	25 W	Super Seal plug	1000 mm	12 High Power LED	2.400 / 1.800	Flood	1	098 174 274
12 / 24 V	25 W	Super Seal socket	300 mm	12 High Power LED	2.400 / 1.800	Flood	1	098 174 275
12 / 24 V	25 W	Integrated DT (DT) socket	---	12 High Power LED	2.400 / 1.800	Flood	1	098 174 277
12 / 24 V	25 W	Super Seal socket with handle & switch	300 mm	12 High Power LED	2.400 / 1.800	Flood	2	098 174 279

Reverse Lights LED - Housing made of Aluminium
Lumen 3.200

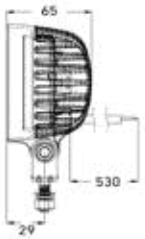
Pos. 1

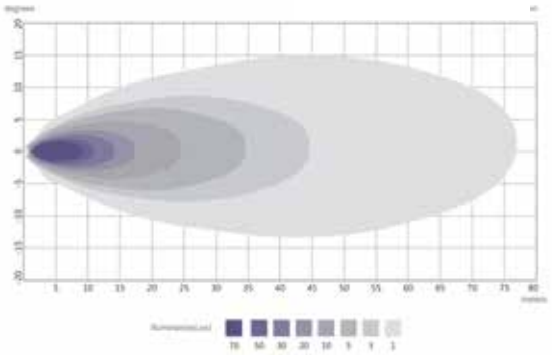






Pos. 2



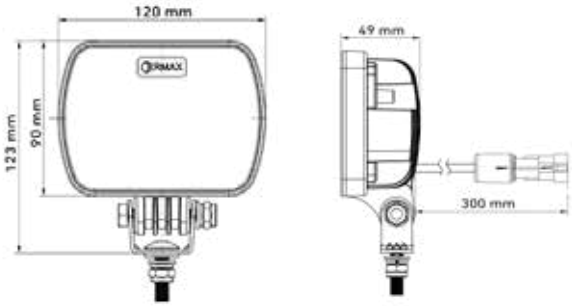


EMC

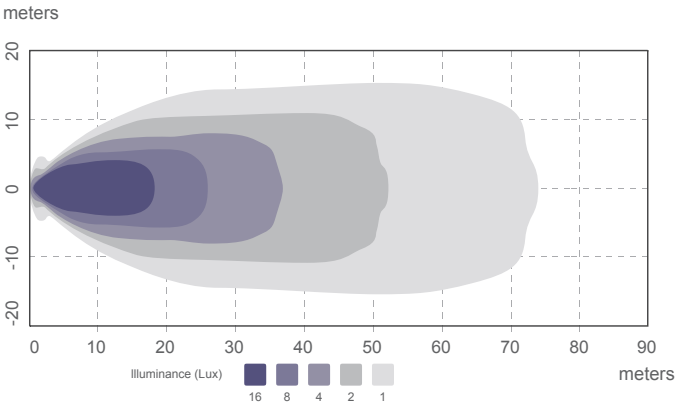
Operating voltage	Energy consumption	Connection	Cable length	Light source	Lumen Theoretical / effective	Light pattern	Pos.	Article No.
12 / 24 V	25 W	Super Seal socket	300 mm	12 high-powered LED	3.200 / 2.400	Flood	1	098 174 285
12 / 24 V	25 W	Integrated Deutsch (DT) socket	---	12 high-powered LED	3.200 / 2.400	Flood	1	098 174 287

Part numbers from original manufactures are for reference purpose only and may not be used in offers or other material

Reverse Lights LED - Housing made of Aluminium
Lumen 3.200



Illumination

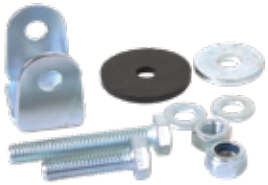


Bird's eye view 1,2 meter above the ground with an incline angle of 5^0

EMC

Operating voltage	Energy consumption	Connection	Cable length	Light source	Lumen Theoretical / effective	Light pattern	Pos.	Article No.
12 / 24 V	25 W	Super Seal socket	300 mm	12 high-powered LED	3.200 / 2.400	Flood	1	098 174 285
12 / 24 V	25 W	Integrated Deutsch (DT) socket	---	12 high-powered LED	3.200 / 2.400	Flood	1	098 174 287

Spare parts and Accessories for ERMAX reverse- and work lights LED


Pos. 1

Pos. 2

Pos. 3

Pos. 4

Pos. 5

Pos. 6

Pos. 7

Pos. 8

Pos. 9

Pos. 10

Spare parts and accessories		Article no.
Mounting bracket for 37 mm light fixtion - Kit set	1	098 296 174
Mounting bracket, aluminium, 31,5 x 30,5 x 17 mm. Ø 61–65 mm	2	098 295 750
Mounting bracket, aluminium, 32,5 x 31,5 x 18 mm. Ø 66–71 mm	2	098 295 752
Super Seal plug, 2 poled, yellow seal Ø 1,8–2,4 mm, blade receptacle 0,5–1,0 mm^2	3	099 110 019
Super Seal socket, 2 poled, yellow seal Ø 1,8–2,4 mm, blade receptacle 0,5–1,0 mm^2	4	099 110 018
Rubber grommet for 2 poled Super Seal plug	5	099 110 712
T-coupling for 2 poled Super Seal plug (3 sockets)	6	099 111 415
Blanking plug for 2 poled Super Seal socket – black plastic	7	099 110 028
Blanking plug for 2 poled Super Seal plug – black plastic	8	099 110 029
Deutsch plug DT2, with blade receptacle 0,75–2,0 mm^2	9	098 291 690
Deutsch socket DT2, with blade receptacle 0,75–2,0 mm^2	10	099 111 043

Part numbers from original manufactures are for reference purpose only and may not be used in offers or other material

REVERSE GEAR ALARM

ERMAX®

Reverse gear alarm 12/24V

Description

Made in black ABS with galvanized mounting bracket.
Should be mounted with the opening af the reverse gear alarm turning backwards or downwards
Sound: 102 dB, 2,6 kHz, 60 cyklus per minut
Bolt distance: Ø5,2 / 22 mm
Working temperature: -30 til +80 C°
IP rating: IP54

Functions

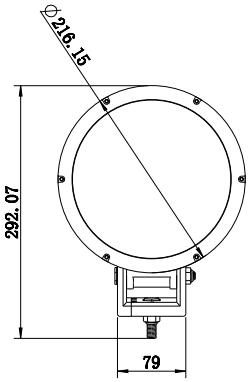
IP Rating	Sound outlet	Frequency range	Consumption	Operating voltage	Dimension	Connection	Article no.
IP54	102 dB	2,6 kHz	10W	12/24V	Ø58,8 x 37 mm	250 mm cable with Super Seal plug	**090 450 350**

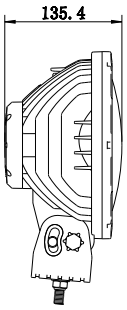
SPOTLIGHTS

ERMAX®

Spotlight 9" LED - 3000 Lumen

E EMC





Spotlight 9" with position light

Housing: Cast aluminium
Lens: Polycarbonate

Functions

Operating voltage	IP Rating	Connection	Cable length	Dimension	Light source	Consumption	Working temperature	Article no.
12-36V	IP67	Open end	1500 mm	Ø216 x 135,4 x 292 mm	3 x CREE T6 10W 1 LED 1W	30 W	-30°C - +50°C	**098 144 390**

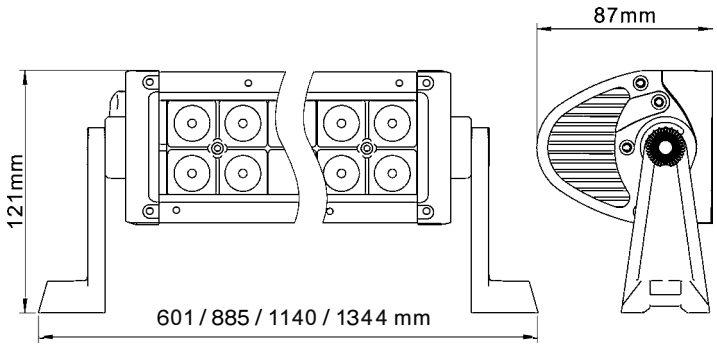
Bracket for work- and spotlights

Functions

Spare parts	Dimension	Material	Article no.
Braket for work- and spotlights	31,5 x 30,5 x 17 mm. Ø61-65 mm	Aluminium	**098 295 750**
Braket for work- and spotlights	32,5 x 31,5 x 18 mm. Ø66-71 mm	Aluminium	**098 295 752**

Light bar LED - 8.000 - 19.200 Lumen

E EMC



Light bar with housing in cast aluminium with transparent polycarbonate lens

The light bars are available in 4 different lengths and would be ideal as full-beam for vans and off-road vehicles

Working temperaturer: -45^0 - +85^{0}C
IP Rating: IP67

Polarity protection

Pin 1: Positive
Pin 2: Negative

Functions

Operating voltage	Dimension	Lumen Theoretical / effective	Connection	Cable length	Consumption	Light pattern	Article no.
9-32V	20" LED Light bar 601 x 87 x 121mm	8.000 / 4496	Deutsch socket DT2	300 mm	120 W	Flood/spot/combo	**098 144 300**
9-32V	30" LED Light bar 885 x 87 x 121mm	12.000 / 6700	Deutsch socket DT2	300 mm	180 W	Flood/spot/combo	**098 144 302**
9-32V	40" LED Light bar 1140 x 87 x 121mm	16.000 / 9040	Deutsch socket DT2	300 mm	240 W	Flood/spot/combo	**098 144 304**
9-32V	50" LED Light bar 1344 x 87 x 121mm	19.200 / 10.800	Deutsch socket DT2	300 mm	288 W	Flood/spot/combo	**098 144 306**

Part numbers from original manufactures are for reference purpose only and may not be used in offers or other material

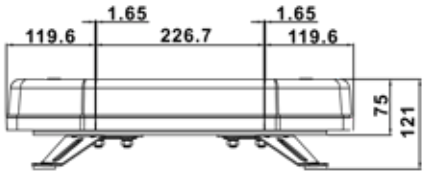
WARNING LIGHTS

ERMAX®

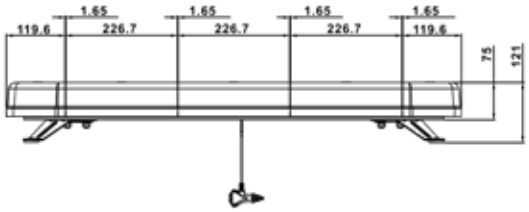
Light bar LED

ECE R65 | EMC R10

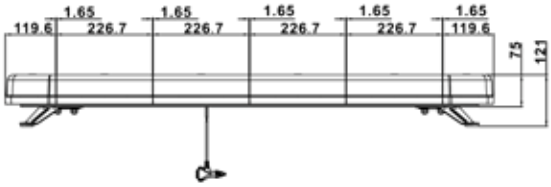
Pos 1



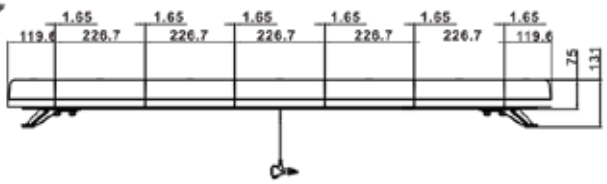
Pos 2



Pos 3



Pos 4



LED light bars for surface mounting with amber SMD LED

Housing: Impact resistant polycarbonate
Lens: Impact resistant polycarbonate, transparent lens

Working temperature: -40°C til +65°C
IP Rating: IP67

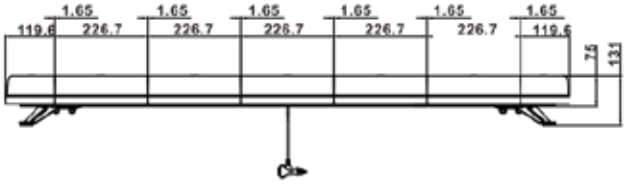
Functions

Flash color	Operating voltage	Connection	Cable length	Consumption	Dimension	Light source	Flash pattern	Pos.	Article no.
	12/24V	Cigarette plug	2500 mm	52W	467 x 305 x 75 mm	68 LED	10	1	098 285 850
	12/24V	Cigarette plug	2500 mm	109W	931,5 x 305 x 75 mm	132 LED	10	2	098 285 854
	12/24V	Cigarette plug	2500 mm	127W	1148,8 x 305 x 75 mm	164 LED	10	3	098 285 858
	12/24V	Cigarette plug	2500 mm	140W	1378,5 x 305 x 75 mm	196 LED	10	4	098 285 859

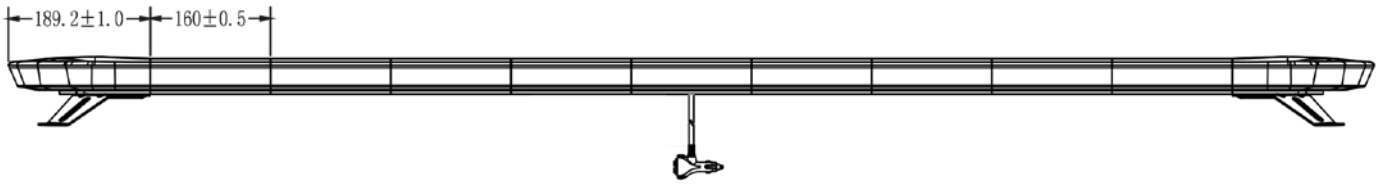
Light bar LED

ECE R65 | EMC R10

Pos 1



Pos 2



LED light bars for surface mounting with amber SMD LED

Housing: Impact resistant polycarbonate
Lens: Impact resistant polycarbonate, amber lens

Working temperature: -40°C til +65°C
IP Rating: IP67

Functions

Flash color	Operating voltage	Connection	Cable length	Consumption	Dimension	Light source	Flash pattern	Pos.	Article no.
	12/24V	Cigarette plug	2500 mm	140W	1378,5 x 305 x 75 mm	196 LED	10	1	**098 285 808**
	12/24V	Cigarette plug	5000 mm	131W	1822 x 226 x 89,5 mm	184 LED	10	2	**098 285 820**

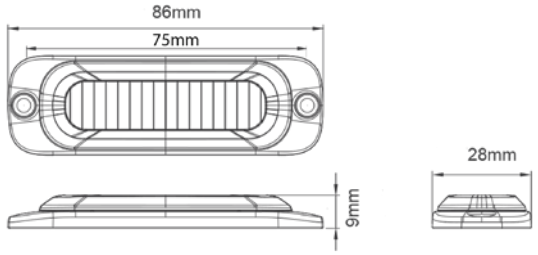
Part numbers from original manufactures are for reference purpose only and may not be used in offers or other material

Warning light LED

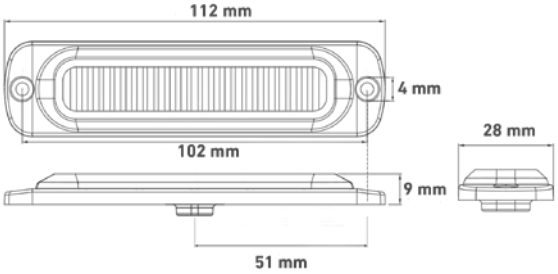
ECE R65 | EMC R10

Pos. 1

Pos. 2

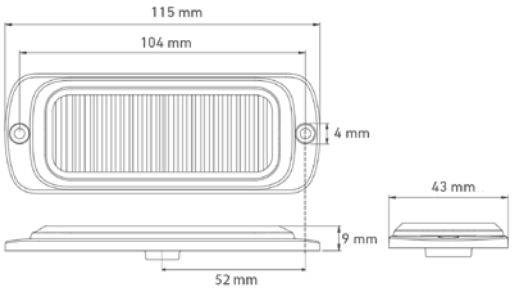


Pos. 3



Pos. 4

Pos. 5



LED warning light for surface mounting. Approved for horizontal mounting

Lens: Polycarbonate, transparent lens
Housing: Aluminium
Working temperature: -30°C til +80°C

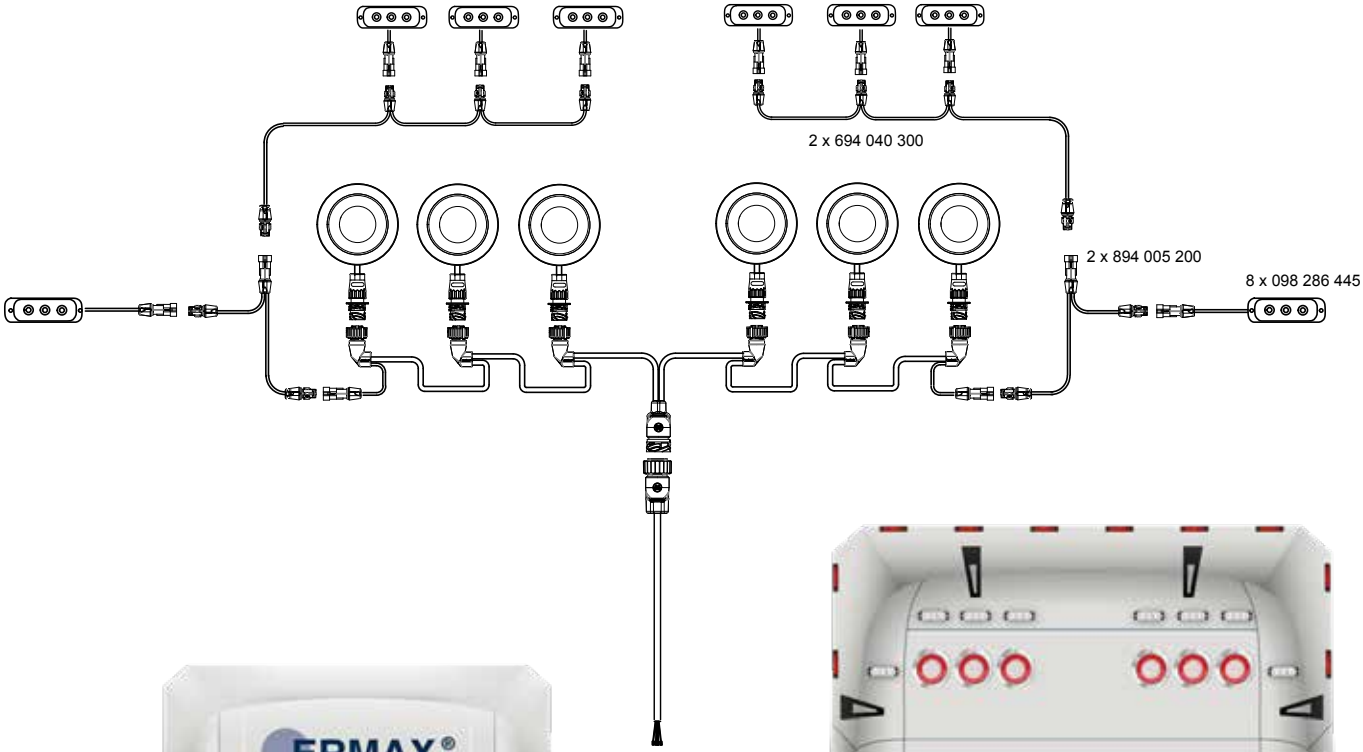
Intallation manual and programming instructions are available at www.ermaxonline.dk

Functions

Flash color	Ope-rating voltage	Approval	IP Rating	Connection	Cable length	Bolt distance	Dimension	Light source	Flash patterns	Pos	Article no.
	12/24V	XA1	IP68	Open end	2500 mm	75 mm	86 x 9 x 28 mm	3 x LED	12	1	098 286 444
	12/24V	XA1	IP69K	Super Seal socket	250 mm	77 mm	86 x 9 x 28 mm	3 x LED	12	2	098 286 445
	12/24V	XA1	IP68	Open end	2500 mm	100 mm	112 x 9 x 28 mm	6 x LED	19	3	098 286 446
	12/24V	XA2	IP68	Open end	2500 mm	104 mm	115 x 9 x 43,4 mm	12 x LED	25	4	098 286 448
	12/24V	XA2	IP69K	Super Seal socket	250 mm	104 mm	115 x 9 x 43,4 mm	12 x LED	25	5	098 286 449

Warning light LED - Quick installation with Super Seal plug connection

- Time-saving installation by using the Super Seal plug & play for extension cable / side cable chain
- Easy and flexible mounting
- Quick fault finding
- Time-saving replacement during repair



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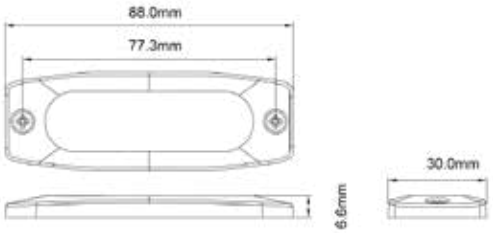
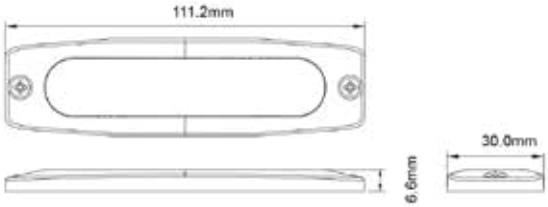
Warning light LED

EMC R10

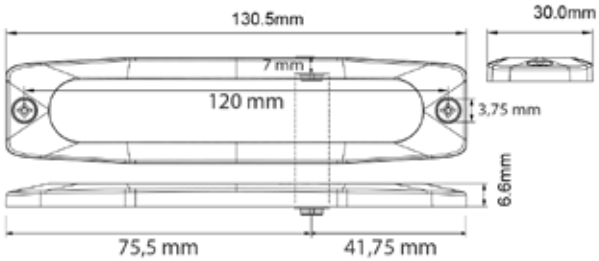
Pos 1



Pos 2



Pos 3



LED warning light for surface mounting

Lens: Polycarbonate, transparent lens
Housing: Polycarbonate
Working temperature: -30°C til +65°C
IP Rating: IP68

Intallation manual and programming instructions are available at www.ermaxonline.dk

Functions

Flash color	Operating voltage	Connection	Cable length	Bolt distance	Dimension	Light source	Flash patterns	Pos	Article no.
	12/24V	Open end	200 mm	77,3 mm	88 x 6,6 x 30 mm	3 x LED	12	1	098 286 410
	12/24V	Open end	200 mm	102 mm	111 x 6,6 x 30 mm	4 x LED	23	2	098 286 412
	12/24V	Open end	200 mm	122 mm	131 x 6,6 x 30 mm	6 x LED	23	3	098 286 414
	12/24V	Super Seal Socket	200 mm	122 mm	131 x 6,6 x 30 mm	6 x LED	23	3	098 286 416

WARNING BEACONS

ERMAX®

Small, compact and long durability

3 flash patterns all with R65 approval and CISPR 25 class 3 - PREMIUM

The new warning light from ERMAX

The warning light with LED technology convinces with a modern design and robust construction. The compact design of the series is suitable for all kinds of heavy vehicles, guaranteeing visibility and safety.

Whether single flash, double flash or rotating light, all 3 flash patterns can be set in compliance with R65 – unique in Europe!

The mounting possibilities are either surface mounting or pole mounting/DIN. The warning lights are available with orange or transparent lens.

This series is E-approved according to ECE R65 and also approved with CISPR 25 class 3 and ADR - and due to the high degree of electromagnetic compatibility the warning light can be placed anywhere.

Surface mounting

Pole mounting/DIN

ERMAX warning lights - Why ?

1 Newest light and LED technology
Small and powerful, long durability and an optimum signal picture with a small power consumption..

2 Unique design
Unique reflection design with clear lens and very strong light.

3 Long lifetime and durability
Impact-resistant lens of polycarbonate and housing top of aluminium.

4 3 Flash Patterns approved
All 3 flash patterns with high warning effect are ECE R65 compliant - unique in Europe

5 Unique availability
The compact design offers flexibility in mounting.

6 Absorb vibrations
The flexible pipe socket avoids damages to the lights by impact or collision.

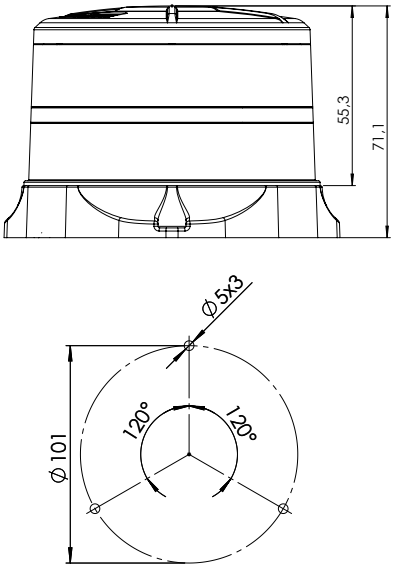
4 2 warning signals
Choose between flashing warning signal or rotating warning signal.

6 First-class approved quality
All products go through our strict quality criteria and testing methods to ensure the high product quality.

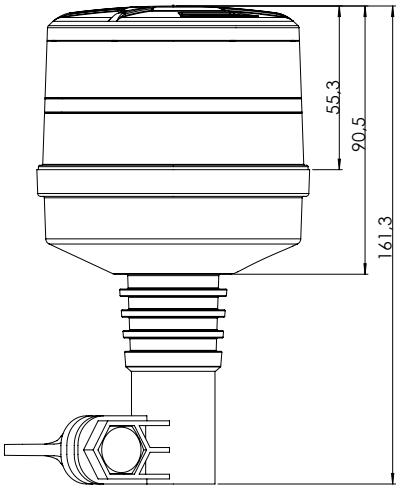
LED Warning lights 12/24V

Technical details - Premium variants with 3 flash patterns, R65 approval and CISPR 25 class 3

Surface mounting



Pole mounting/DIN



Description - Surface mounting

Lens:	Impact resistant polycarbonate
Housing:	Impact resistant polycarbonate
Housing top:	Aluminium
Sealing:	EVA
Light colour:	Amber
Measures Ø x H:	Ø115 x 71 mm
Hole pattern:	Ø101 mm / 3 x 87 mm/ Ø4,5 mm
Working temperature:	-40°C to +65C°
IP-Rating:	IP6K9K

Description - Pole mounting/DIN

Lens:	Impact resistant polycarbonate
Housing:	TPE
Housing top:	Aluminium
Light colour:	Amber
Measures Ø x H:	Ø91 x 161 mm
Working temperature:	- 40°C to +65C°
IP-Rating:	IP6K9K

Radio interference (CISPR 25): Klasse 3 | ECE R65 | EMC | TA1

Mounting	Colour light lens	Connections	Measures	Voltage	Consumption - Max	Flash pattern	Artikel no.
Surface	Transperent glass	500 mm cable open-end Ø6 mm, 3 x 0,75 mm²	Ø115 x 71 mm	10-30V	27W	3 (R65) Single 480 ms Double 400 ms Rotating 400 ms	098 287 200
Surface	Amber glass	500 mm cable open-end Ø6 mm, 3 x 0,75 mm²	Ø115 x 71 mm	10-30V	27W		098 287 205
Pole (DIN)	Transperent glass	Integrated plug in the socket, DIN 4165	Ø91 x 161 mm	10-30V	27W		098 287 230
Pole (DIN)	Amber glass	Integrated plug in the socket, DIN 4165	Ø91 x 161 mm	10-30V	27W		098 287 235

Spareparts

Seal - Suitable for 098 287 200 + 098 287 205 without adapter ring	098 295 250

Part numbers from original manufactures are for reference purpose only and may not be used in offers or other material

Wenn more flash patterns are needed

10 flash patterns - 1 flash pattern with R65 approval - STANDARD

These 4 variants have similar characteristics as the premium types – the only difference is that this series has a cover of polycarbonate instead of aluminium and has 10 different flash patterns – of these 1 flash pattern with R65 approval.

The warning lights are available with orange or transparent lens and the mounting possibilities are either surface mounting or pole mounting/DIN, and the series are ADR approved. The two types for surface mounting are delivered with an adapter for Ø130 mm hole configuration.

Surface mounting

Adapter ring

Pole mounting/DIN

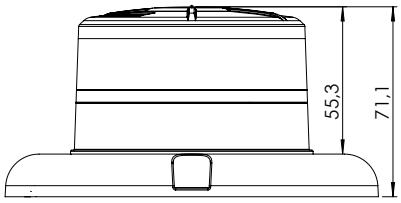
10 flash patterns

- Single flash 480ms (Reg. 65 approved)
- Single flash 800ms
- Double flash 400ms
- Double flash 800ms
- Triple flash
- Quad flash
- ISO-fase flash 400ms
- ISO-fase flash 800ms
- Rotating 400ms
- Rotating 800ms

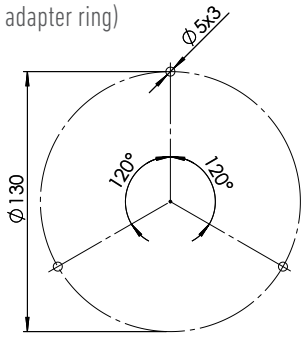
LED Warning lights 12/24V

Technical details - Standard variants with 10 flash patterns

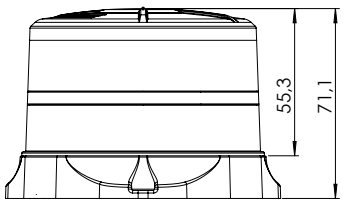
Surface mounting



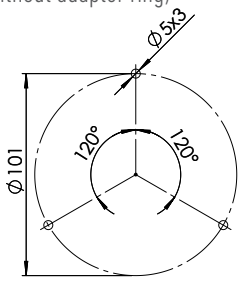
(with adapter ring)



Hole Pattern

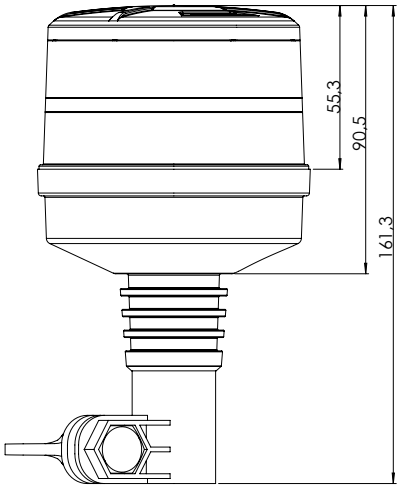


(without adapter ring)



Hole Pattern

Pole mounting/DIN



Description - Surface mounting with adapter ring

Lens:	Impact resistant polycarbonate
Housing:	Impact resistant polycarbonate
Housing top:	Impact resistant polycarbonate
Sealing:	EVA
Light colour:	Amber
Measures Ø x H:	Ø140 x 71 mm
Hole pattern:	Ø130 mm / 3 x 112 mm / Ø4,5 mm
Working temperature:	-40°C to +65C°
IP-Rating:	IP6K9K

Description - Pole mounting/DIN

Lens:	Impact resistant polycarbonate
Housing:	TPE
Housing top:	Impact resistant polycarbonate
Light colour:	Amber
Measures Ø x H:	Ø91 x 161 mm
Working temperature:	- 40°C to +65C°
IP-Rating:	IP6K9K

ECE R65 EMC

Mounting	Colour light lens	Connections	Measures	Voltage	Consumption	Flash pattern	Artikel no.
Surface	Transperent glass	500 mm cable open-end Ø6 mm, 3 x 0,75 mm²	Ø140 x 71 mm	10-30V	23W	See page 4	098 287 250
Surface	Amber glass	500 mm cable open-end Ø6 mm, 3 x 0,75 mm²	Ø140 x 71 mm	10-30V	23W		098 287 255
Pole (DIN)	Transperent glass	Integrated plug in the socket, DIN 4165	Ø91 x 161 mm	10-30V	23W		098 287 280
Pole (DIN)	Amber glass	Integrated plug in the socket, DIN 4165	Ø91 x 161 mm	10-30V	23W		098 287 285

Spareparts

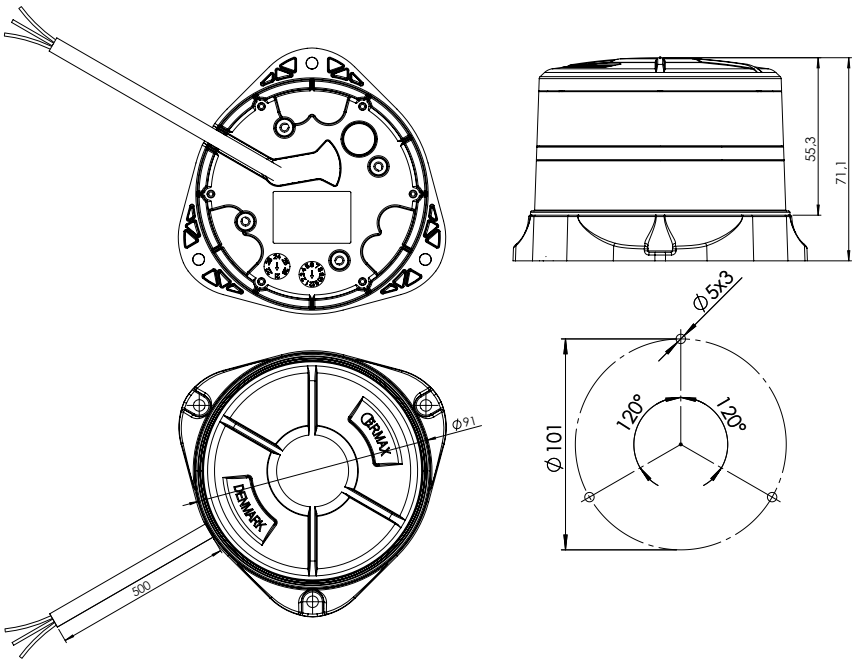
The adapter ring makes it possible to adapt the LED beacon to mounting holes Ø130 mm - Measurements, Ø x H: Ø140 x 16 mm Bolt distance: Ø130 mm / 3 x 112 mm / Ø4,5 mm Material: Polycarbonate	098 292 640
Seal - Suitable for 098 287 250 + 098 287 255 with adapter ring	098 295 251
Seal - Suitable for 098 287 250 + 098 287 255, if adapter ring is not used	098 295 250

Part numbers from original manufactures are for reference purpose only and may not be used in offers or other material

LED Warning lights 12/24V

Technical details and flash pattern selection

Surface mounting



Connection:

Red: Permanent power supply (+)
Black: Ground (-)
Yellow: Choose flash pattern / synchronizing

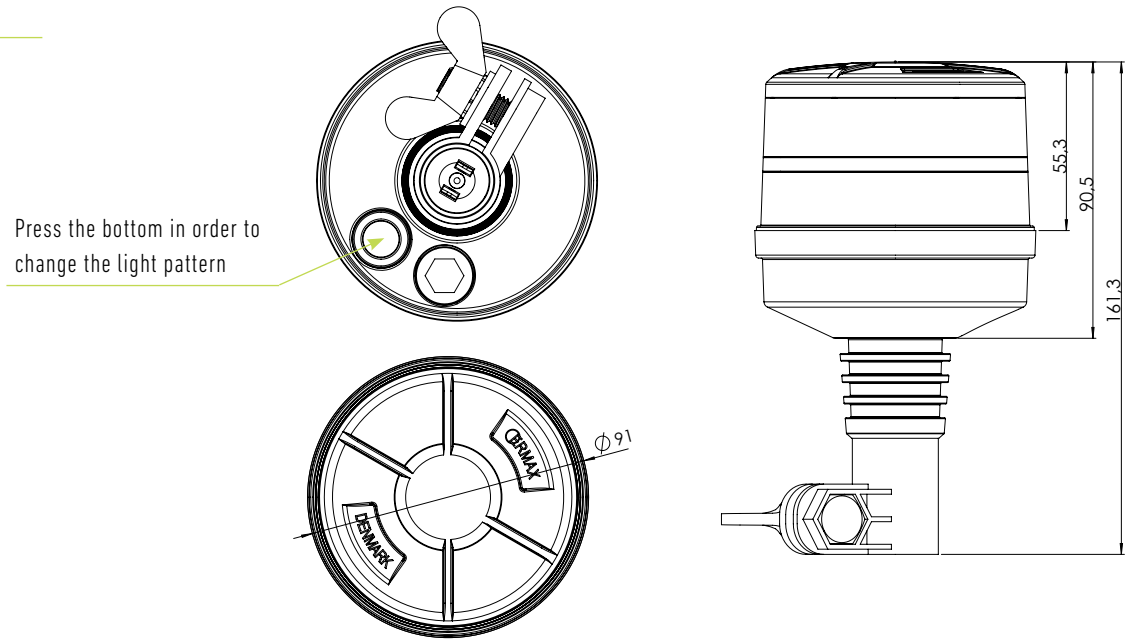
Choose flash pattern - Surface mounting

Apply yellow cable to +, hold briefly (0.5-2 sec) and select flash pattern.

To synchronize more lights, all lights must be adjusted to the same flash pattern. Then all yellow cables will be connected to each other.

If the yellow cable is placed at + for more than 2 seconds, the light return to flash pattern 1.

Pole mounting/DIN



Choose flash pattern – Pole mounting/DIN

To choose flash pattern, press the red bottom shortly (0.5 – 2 sec).

If pressed at the red bottom for more than 2 seconds, the light return to flash pattern 1.

Mounting equipment for Warning beacons

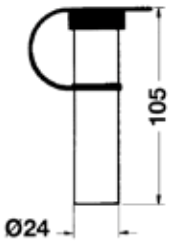
Pos. 1

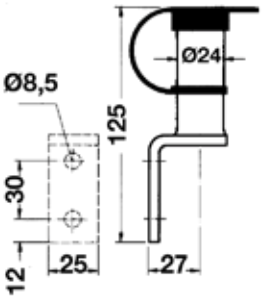
Pos. 2

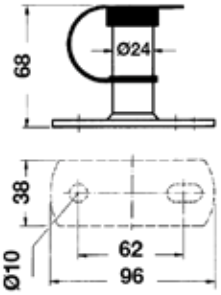
Pos. 3

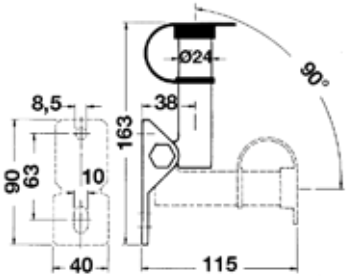
Pos. 4

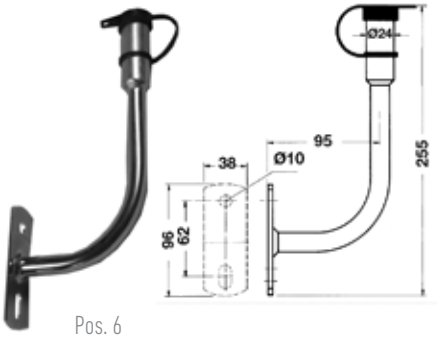
Pos. 5





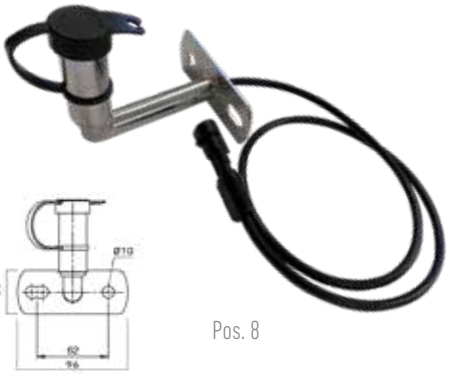






Pos. 6

Pos. 7


Pos. 8

Galvanized steel tube and with protection cap

DIN Norm	Form	Mounting	Dimension	Connection	Cable	Pos.	Article No.
DIN 72 591	Straight	-	Ø24 x 105 mm	2 poled socket	--	1	098 295 561
DIN 72 591	Straight	Angled bracket	Ø24 x 125 mm	2 poled socket	--	2	098 295 562
DIN 72 591	Straight	Angled bracket	Ø24 x 125 mm	2 poled socket	900 mm cable with Super Seal plug	3	098 295 595
DIN 72 591	Straight	Flush mounting	Ø24 x 128 mm	2 poled socket	--	4	098 295 564
DIN 72 591	Straight	adjustable bracket	Ø24 x 115 mm	2 poled socket	--	5	098 295 567
DIN 72 591	90° angled	Flush mounting	Ø24 x 255 mm	2 poled socket	--	6	098 295 565
DIN 72 591	90° angled	Flush mounting	Ø24 x 100 mm	2 poled socket	--	7	098 295 583
DIN 72 591	90° angled	Flush mounting	Ø24 x 100 mm	2 poled socket	800 mm cable with Super Seal socket	8	098 295 585

Part numbers from original manufactures are for reference purpose only and may not be used in offers or other material

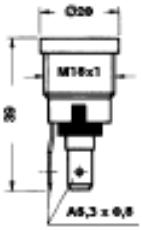
Mounting equipment for warning beacons

Pos 1

Pos 2

Pos 3

Pos 4



Spare parts

	Pos	Article no.
2 poled socket - DIN 72 591	1	098 295 650
2 poled socket - DIN 72 591	2	098 295 651
Protection cap	3	098 295 560
Protection cap	4	098 295 599

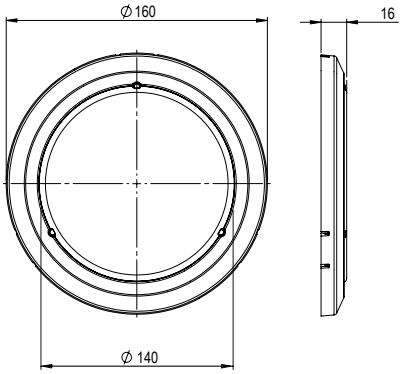
INTERIOR LIGHTING

ERMAX®

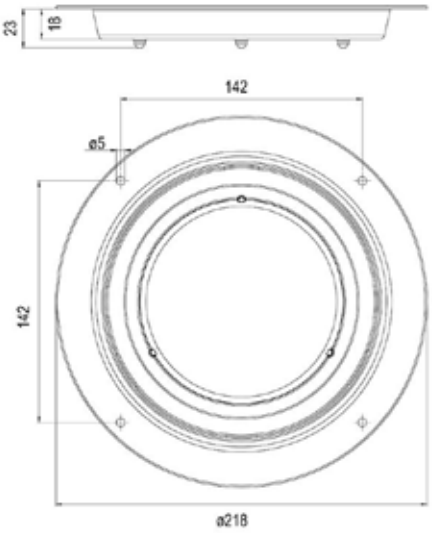
Interior lights LED - Surface mounting and built-in

EMC

Surface mounting



Built-in



Lens: Impact resistant polycarbonate
Housing: Impact resistant polycarbonate

Bolt distance with surface mounting: 3 pcs. Ø3,8 mm - Ø138 mm

Bolt distance with built-in: 4 pcs. Ø5 mm - Ø201 mm
Depth: 18 mm

IP-Rating: IP67

Functions

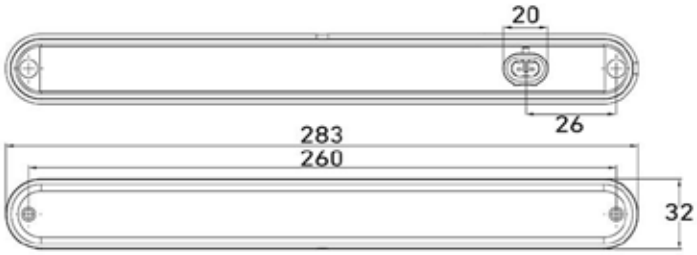
Light source	Lumen	Dimension	Operating voltage	Surface mounting	Built-in	Connection	Article no.
LED	294	Ø160 x 15,7 mm	12/24V	✓		1.500 mm cable with click-in	098 274 070
LED	294	Ø160 x 15,7 mm	12/24 V	✓		2.500 mm cable with Open end	098 274 071
LED	294	Ø218 x 20 mm	12/24V		✓	1.500 mm cable with click-in	098 274 072
LED	294	Ø218 x 20 mm	12/24 V		✓	2.500 mm cable with Open end	098 274 073

Spare parts

Bowl for LED interior light. Dimension: Built-in Ø175 mm, outside Ø218 mm	098 291 070

Interior lights LED - Surface mounting and built-in

EMC



Lens: PMMA
Housing/holder: Polypropylen (PP)
Dimension: 283 x 32
Bolt distance: 260 mm
IP-Rating: IP67

Functions

Light souce	Lumen	Dimension	Operating voltage	Surface mounting	Built-in	Connection	Article no.
LED	60	283 x 24 x 32 mm	24V	✓	✓	500 mm Cable with Super Seal socket	098 274 725

Part numbers from original manufactures are for reference purpose only and may not be used in offers or other material

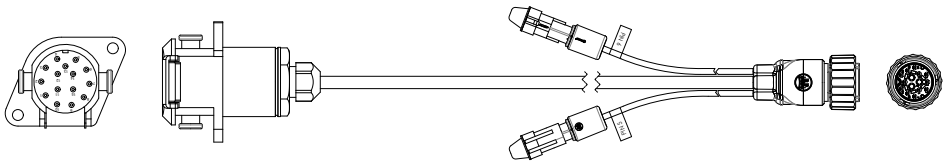
CABLES - UNIVERSAL

ERMAX®

Front cable

Application / Description	Article no.
Front cable with 15 poled socket, straight ISO Standard: 12098 With Ermax Bayonet plug Conductor cross-section: 12x1 mm^2 + 3x2,5 mm^2 Cable type: FLRYY / PVC	
15 core cable 600 mm	194 006 500
15 core cable 6000 mm	194 060 500
15 core cable 7.500 mm	194 075 500

15 core cable 600 mm 2x2 core outlet with Super Seal socket ISO 12098 pin 5 position Left + pin 6 position Right	194 006 501

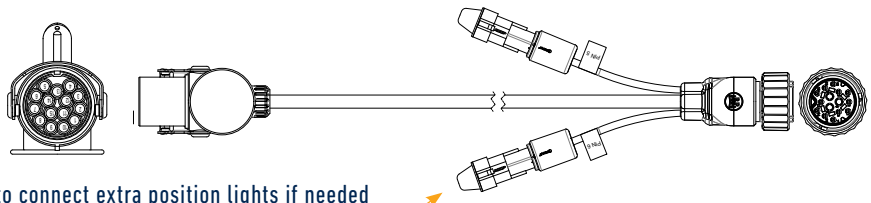


Easy to connect extra position lights if needed
by using the 2 poled Super Seal outlets

Main cable

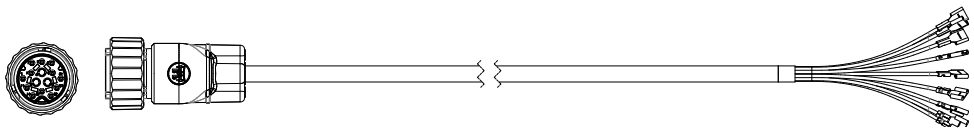
Application / Description	Article no.
Front cable with 15 poled plug, straight ISO Standard: 12098 With Ermax Bayonet plug Conductor cross-section: 12x1 mm² + 3x2,5 mm² Cable type: FLRYY / PVC	
15 core cable 1.000 mm	294 010 500
15 core cable 3.500 mm	294 035 500
15 core cable 4.800 mm	294 048 500

15 core cable 4.800 mm 2x2 core outlet with Super Seal socket ISO 12098 pin 5 position Left + pin 6 position Right	294 048 501

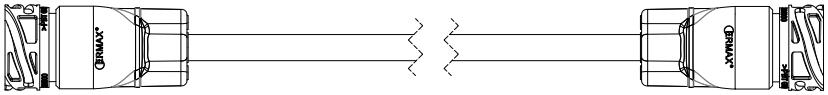


Easy to connect extra position lights if needed
by using the 2 poled Super Seal outlets

Main cable 9 core Ermax 15 poled bayonet plug > Open end with blade receptacles 6,3 x 0,8 Conductor cross-section: 8x1 mm²+1x2,5 mm² Cable type: FLRYY / PVC	
9 core 6.000 mm	394 060 171



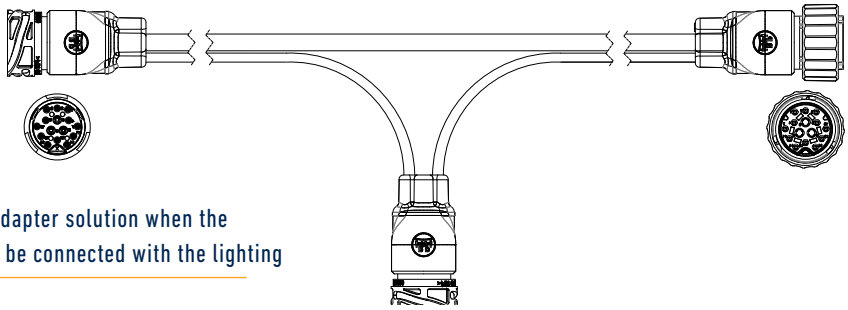
Main cable Adapter 15 core Ermax bayonet socket > socket Conductor cross-section: 12x1 mm²+3x2,5 mm² Cable type: FLRYY / PVC	
15 core 300 mm	394 003 560



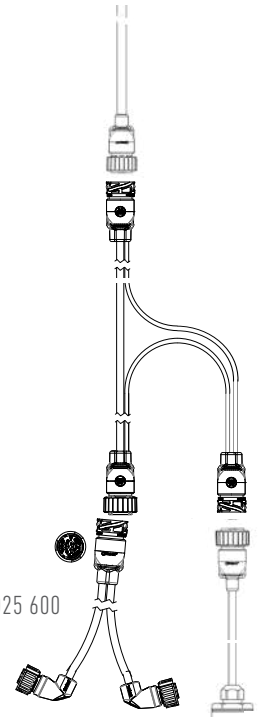
Part numbers from original manufactures are for reference purpose only and may not be used in offers or other material

Main cable

	Application / Description	Article no.
	Main cable Adapter 9 core Ermax 15 poled bayonet plug > 2 x Ermax 15 poled bayonet socket Cable length for the 15 poled outlet: 500 mm Connection for pin 13 (ISO12098) is not in the 15 poled outlet Conductor cross-section: 8x1,0 mm^2+1x2,5 mm^2 / 7x1,0 mm^2 Cable type: FLRYY / PVC	
	9 core 300 mm	394 003 160



OBS: Ideal and easy adapter solution when the forklift needs to be connected with the lighting



Main cable f.eks 394 003 160

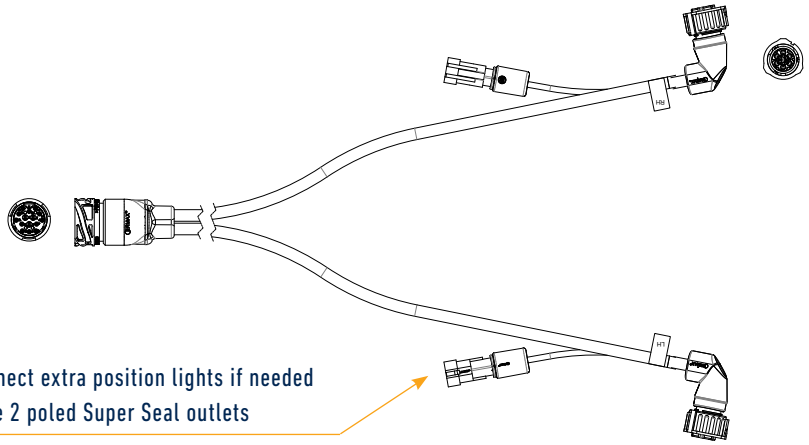
Rear cable f.eks 494 025 600

Front cable f.eks 194 060 500

Coil cable 15 poled ISO 12098
f.eks 090 165 816
Connected to the forklift

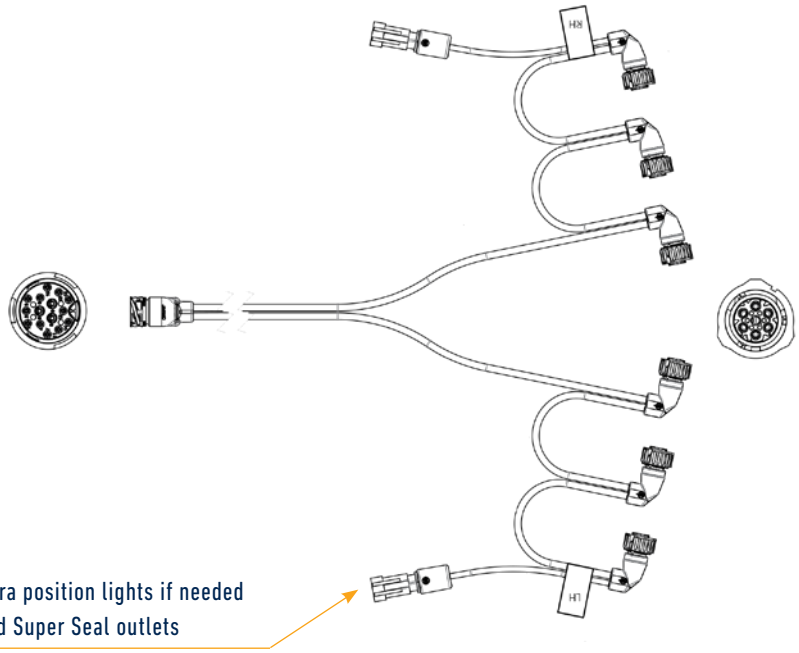
Rear cable

Application / Description	Article no.
Rear cable 2 x 6 core Ermax 15 poled bayonet socket > 2 x 7 poled AMP 1,5 plug, angled Cable type: FLRYY / PVC	
2 x 6 core 2.500 mm Conductor cross-section: 6x1 mm²	494 025 600
2 x 6 core 2.500 mm With 2 x 2 core outlet with Super Seal for the outer end marker lights Conductor cross-section: 6x1 mm² / 2x1 mm²	494 025 601



Easy to connect extra position lights if needed
by using the 2 poled Super Seal outlets

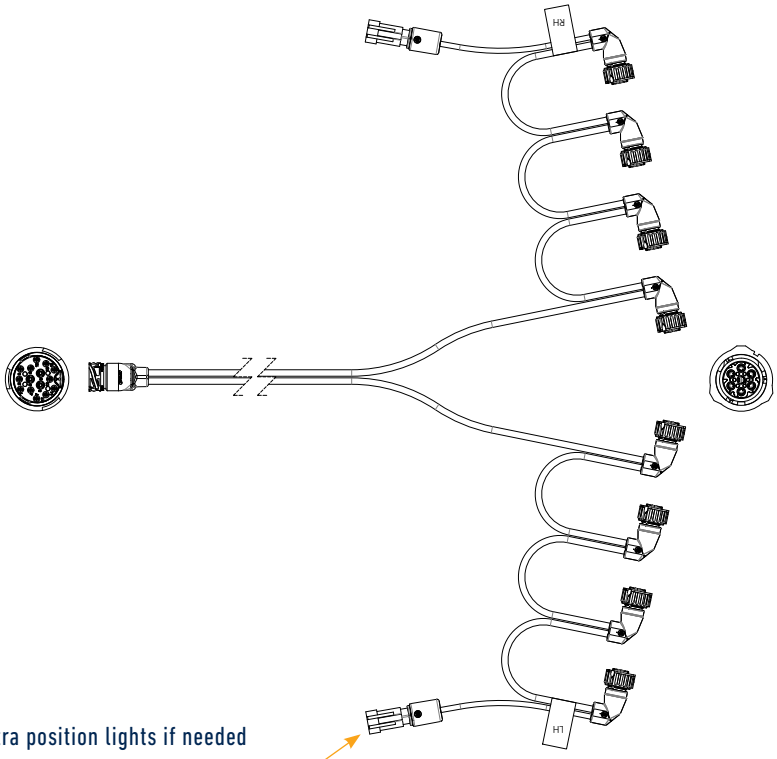
Application / Description	Article no.
Rear cable 6 core, chain 2 x 3 plug Ermax 15 poled bayonet socket > 2 x 3 pcs. 7 poled AMP 1,5 plug, angled Conductor cross-section: 6x1 mm² / 2x1 mm² Cable type: FLRYY / PVC	
2 x 6 core 2.500 mm With 2 x 2 core outlet with Super Seal for outer end marker lights	494 025 606



Easy to connect extra position lights if needed
by using the 2 poled Super Seal outlets

Rear cable

Application / Description	Article no.
Real cable 6 core, chain 2 x 4 plug Ermax 15 poled bajynet socket > 2 x 4 pcs. 7 poled AMP 1,5 plug, angled Conductor cross-section: 6x1 mm^2 / 2x1 mm^2 Cable type: FLRYY / PVC	
2 x 6 core 2.900 mm With 2 x 2 core outlet with Super Seal for the outer end marker lights	494 029 608



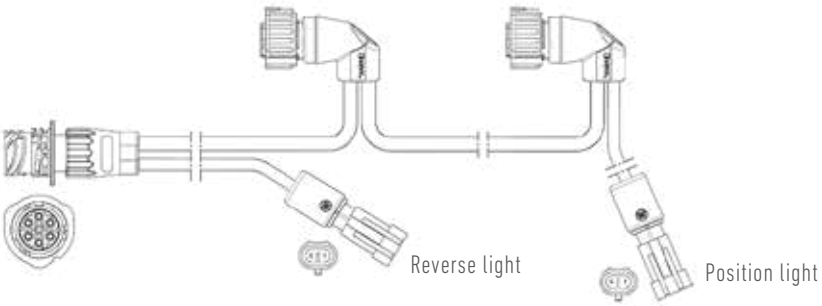
Easy to connect extra position lights if needed by using the 2 poled Super Seal outlets

Rear cable

Application / Description	AArticle no. rtikel-nr.
Rear cable 6 core, single 7 poled AMP 1.5 plug, straight > 7 poled AMP 1.5-plug, angled For mounting in ERMAX junction box Cable type: FLRYY / PVC	
6 core 1.500 mm Conductor cross-section: 6x1 mm^2	494 015 610
6 core 2.000 mm Conductor cross-section: 6x1 mm^2	494 020 610
6 core 2.000 mm With 2 poled Super Seal outlets for outer end marker lights Conductor cross-section: 6x1 mm^2 / 2x1 mm^2	494 020 611
6 core 2.500 mm Conductor cross-section: 6x1 mm^2	494 025 610
6 core 2.500 mm With 2 poled Super Seal outlets for outer end marker lights Conductor cross-section: 6x1 mm^2 / 2x1 mm^2	494 025 611
6 core 3.000 mm Conductor cross-section: 6x1 mm^2	494 030 610
6 core 5.000 mm Conductor cross-section: 6x1 mm^2	494 050 610

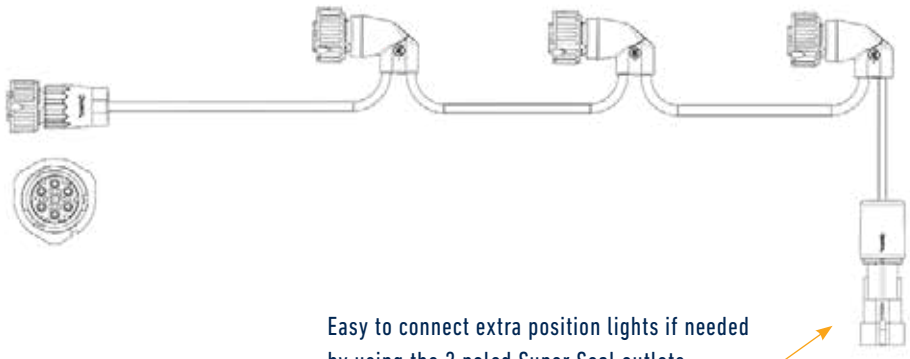
Rear cable

Application / Description	Article no.
Rear cable 6 core – single, chain 7 poled AMP 1,5 socket, straight > 2 x 7 poled AMP 1,5 plug, angled With 2 x 2 core outlet with Super Seal for position and reverse light Conductor cross-section: 6x1 mm² / 2x1mm² Cable type: FLRYY / PVC	
6 core 800 mm	494 008 664



Easy to connect extra reverse and position lights if needed by using the 2 poled Super Seal outlets

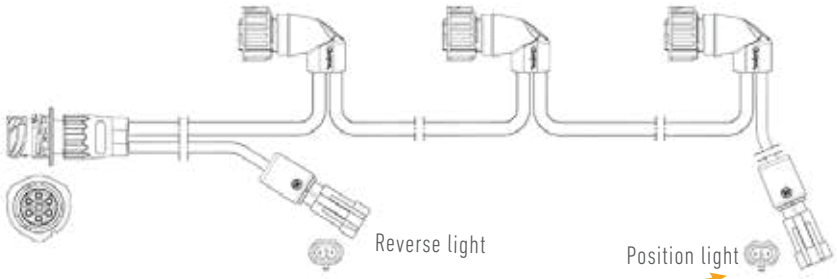
Application / Description	Article no.
Rear cable 6 core – single, chain 7 poled AMP 1,5 plug, straight > 3 x 7 poled AMP 1,5 plug, angled With 2 x 2 core outlet with Super Seal for outer end marker lights For mounting in ERMAX junction box Conductor cross-section: 6x1 mm² / 2x1mm² Cable type: FLRYY / PVC	
6 core 2.100 mm	494 021 631



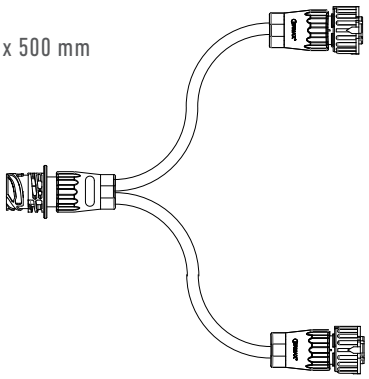
Easy to connect extra position lights if needed by using the 2 poled Super Seal outlets

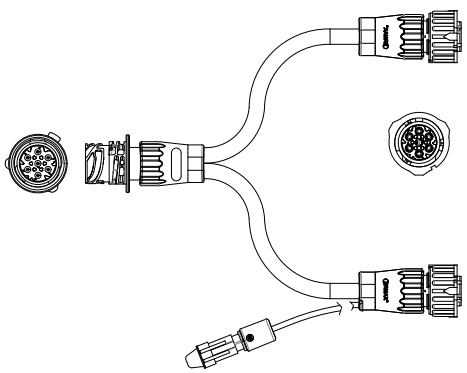
Rear cable

	Application / Description	Article no.
	Rear cable 6 core – single, chain 7 poled AMP 1,5 socket, straight > 3 x 7 poled AMP 1,5 plug, angled With 2 x 2 core outlet with Super Seal for position and reverse light Conductor cross-section: 6x1 mm² / 2x1 mm² Cable type: FLRYY / PVC **6 leder 1.200 mm**	494 012 666
	Y-Adapter cable 6 core 1 x 7 poled AMP 1.5 socket, straight > 2 x 7 poled AMP 1.5 plug, straight Conductor cross-section: 5x1mm² + 1x2,5 mm² Cable type: FLRYY / PVC 6 core 2 x 500 mm	894 005 640
	2 x 300 mm With 1x2 poled outlet (200 mm) with Super Seal socket for tail light or outer end marker light Conductor cross-section: 5x1mm² + 1x2,5 mm² / 2x1 mm²	894 003 641



Easy to connect extra reverse and position lights if needed by using the 2 poled Super Seal outlets

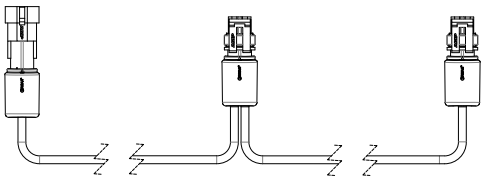
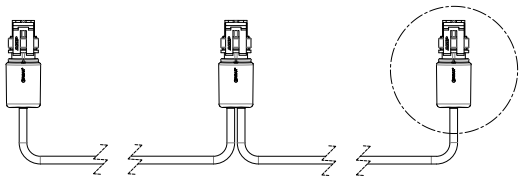
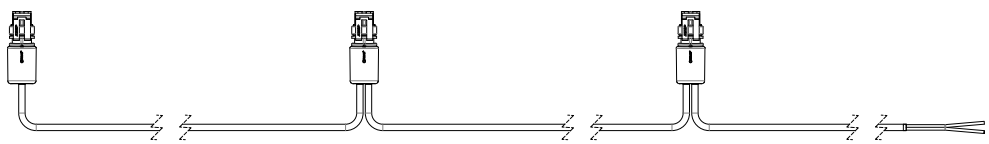




Cable for side marker

	Application / Description	Article no.
	Side cable, flat For click-in system with Super Seal plug Conductor cross-section: 2x1,5 mm^2 Cable type: FLYYF	
	2.000 mm for "Click-in" System	594 020 000
	4.000 mm for Click-In System	594 040 000
	7.000 mm for Click-In System	594 070 000
	9.000 mm for Click-In System	594 090 000
	10.000 mm for Click-In System	594 100 000
	13.000 mm for Click-In System	594 130 000

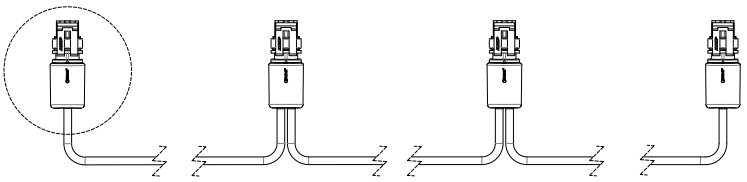
Cable for side marker

	Application / Description	Article no.
Suitable as extension cable for side cables with Super Seal plugs	**Side cable,chain** 1 x inlet with Super Seal socket + 2 x outlets with Super Seal plugs Conductor cross-section: 2x0,5 mm² Cable type: FLRYY / PVC	
	3.900 mm Distance between plugs: 1x200 mm + 1x3700 mm	694 039 201
	5.200 mm Distance between plugs: 1 x 200mm + 1 x 5000 mm	694 052 201
		
	Side cable, chain 1 x inlet + 2 x outlets with Super Seal plugs Conductor cross-section: 2x0,5 mm² Cable type: FLRYY / PVC	
	3.000 mm Distance between plugs: 1x1700 mm + 1x1300 mm	694 030 200
	4.200 mm Distance between plugs: 1x1200 mm + 1x3000 mm.	694 042 200
	5.300 mm Distance between plugs: 1x300 mm + 1x5000 mm.	694 053 200
		
	Sidecable, kæde 1 x inlet with open end with blade receptacles 6,3x0,8 mm > + 3 x outlets with Super Seal plugs Conductor cross-section: 2x0,5 mm² Cable type: FLRYY / PVC	
	600 mm Distance between plugs: 250 mm +200 mm + 200 mm	694 006 350
		

Part numbers from original manufactures are for reference purpose only and may not be used in offers or other material

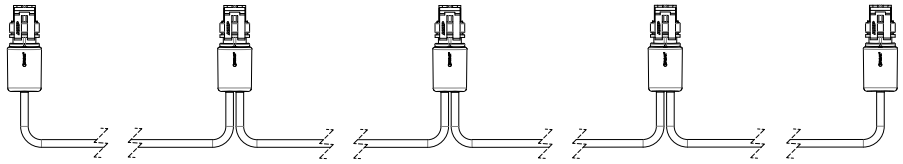
Cable for side marker

	Application / Description	Article no.
	Side cable, chain 1 x inlet + 3 x outlets with Super Seal plugs Conductor cross-section: 2x0,5 mm^2 Cable type: FLRYY / PVC	
	2.500 mm Distance between plugs: 500 mm + 1500 mm + 500 mm	694 025 300
	3.200 mm Distance between plugs: 500 mm + 1700 mm + 1000 mm	694 032 300
	4.000 mm Distance between plugs: 1000 mm + 2000 mm + 1000 mm	694 040 300
	8.000 mm Distance between plugs: 2000 mm + 2000 mm + 4000 mm	694 080 300
	9.400 mm Distance between plugs: 2000 mm + 3700 mm + 3700 mm	694 094 300
	11.500 mm Distance between plugs: 1500 mm + 5000 mm + 5000 mm	694 115 300
	13.500 mm Distance between plugs: 4100 mm + 3900 mm + 5500 mm	694 135 300

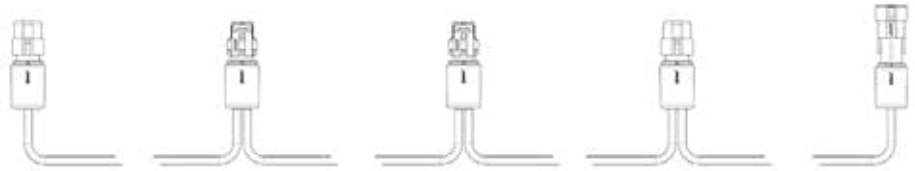


Cable for side marker

	Application / Description	Article no.
	Side cable, chain 1 x inlet + 4 x outlets with Super Seal plug Conductor cross-section: 2x0,5 mm² Cable type: FLRYY / PVC.	
	800 mm Distance between plugs: 200 mm	694 008 400
	6.750 mm Distance between plugs: 500 mm + 1.750 mm + 1.500 mm + 3.000 mm	694 675 400
	11.700 mm Distance between plugs: 1.200 mm + 500 mm + 5.000 mm + 5.000 mm	694 117 400
	12.400 mm Distance between plugs: 3.200 mm + 2.800 mm + 3.200 mm + 3.200 mm	694 124 400
	17.500 mm Distance between plugs: 7.000 mm + 3.500 mm + 3.500 mm + 3.500 mm	694 175 400
	19.500 mm Distance between plugs: 9.000 mm + 3.500 mm + 3.500 mm + 3.500 mm	694 195 400



	Side cable, chain 1 x inlet with Super Seal socket + 4 x outlets with Super Seal plugs Conductor cross-section: 2x1 mm² Cable type: FLRYY / PVC	
	800 mm Distance between plugs: 200 mm - 200 mm - 200 mm - 200 mm	694 008 401



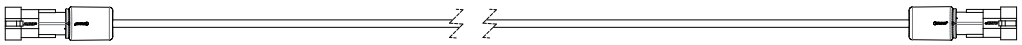
Extension cable

Application / Description	Article no.
Extension cable, 2 core Super Seal socket > Super Seal plug Conductor cross-section: 2x1 mm² Cable type: FLRYY / PVC	
1.000 mm	794 010 200
1.500 mm	794 015 200
2.000 mm	794 020 200
3.000 mm	794 030 200
4.000 mm	794 040 200
5.000 mm	794 050 200
6.000 mm	794 060 200
15.000 mm	794 150 200

Application / Description	Article no.
Extension cable, 2 core Super Seal plug > Super Seal plug Conductor cross-section: 2x1 mm² Cable type: FLRYY / PVC	
200 mm	794 002 230
500 mm	794 005 230
1.000 mm	794 010 230
1.500 mm	794 015 230
2.000 mm	794 020 230
2.500 mm	794 025 230
3.000 mm	794 030 230
5.000 mm	794 050 230
6.000 mm	794 060 230
7.500 mm	794 075 230
10.000 mm	794 100 230
11.500 mm	794 115 230
15.000 mm	794 150 230

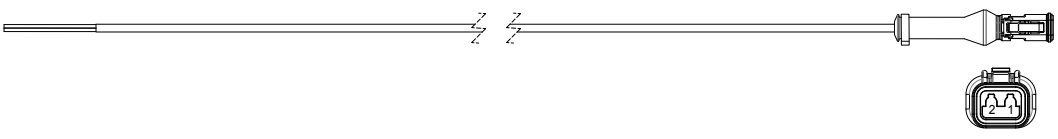
Extension cable

Application / Description	Article no.
Extension cable, 2 core Super Seal socket > Super Seal socket Conductor cross-section: 2x1 mm² Cabletype: FLRYY / PVC	
1.500 mm	794 015 240



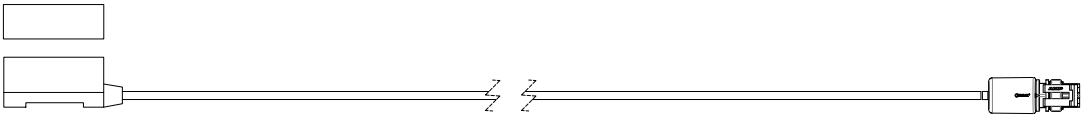
Extension cable, 2 core Super Seal plug > Open end with blade recpetacles 6,3x0,8 mm Conductor cross-section: 2x1 mm² Cable type: FLRYY / PVC	
500 mm	794 005 251
1.000 mm	794 010 251
1.500 mm	794 015 251
2.000 mm	794 020 251
4.000 mm	794 040 251
6.000 mm	794 060 251
8.000 mm	794 080 251
10.500 mm	794 105 251

Extension cable, 2 core 2 poled Deutsch (DT2) plug > Open-end The open end cable is stripped 20 mm Conductor cross-section: 2x1 mm² Cable type: FLRYY / PVC	
2.500 mm	794 025 255

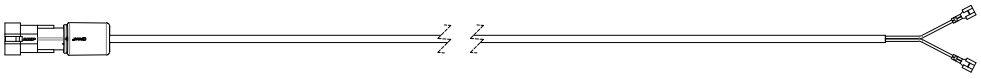


Extension cable

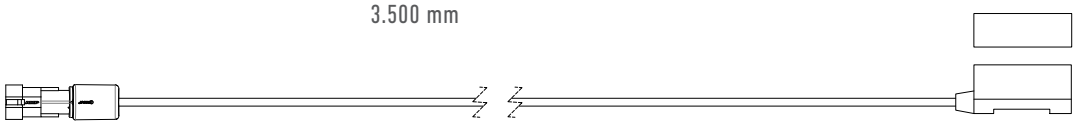
Application / Description	Article no.
Extension cable, 2 core Click-in adapter > Super Seal plug Conductor cross-section: 2x1 mm² Cable type: FLRYY / PVC	
500 mm	794 005 220
1.500 mm	794 015 220
2.500 mm	794 025 220
3.500 mm	794 035 220
5.000 mm	794 050 220



Application / Description	Article no.
Extension cable, 2 core Super Seal socket > Open end with blade recpetacles 6,3x0,8 mm Conductor cross-section: 2x1 mm² Cable type: FLRYY / PVC	
500 mm	794 005 261
1.000 mm	794 010 261
1.500 mm	794 015 261

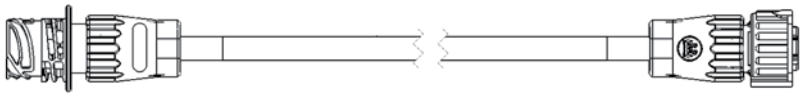


Application / Description	Article no.
Extension cable, 2 core Click-in adapter > Super Seal socket Conductor cross-section: 2x1 mm² Cable type: FLRYY / PVC	
500 mm	794 005 270
1.500 mm	794 015 270
3.500 mm	794 035 270

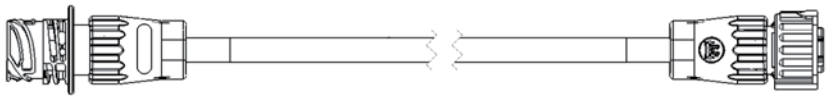


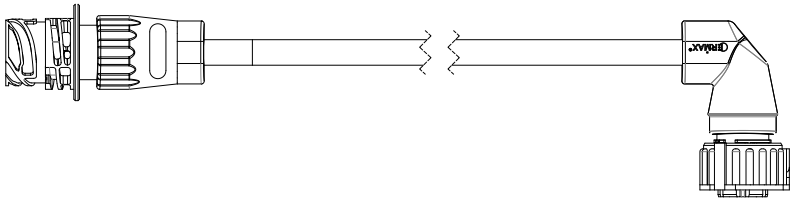
Extension cable

Application / Description	Article no.
Extension cable, 6 core AMP 1.5 socket, straight > AMP 1.5 plug straight Conductor cross-section: 5x1mm²+1x2,5mm² Cable type: FLRYY / PVC	
5.000 mm	794 050 600
6.000 mm	794 060 600
12.500 mm	794 125 600



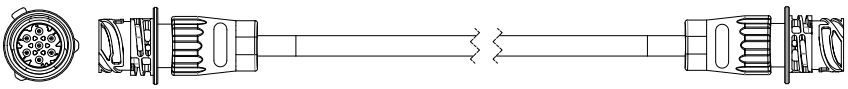
Extension cable, 7 core Conductor cross-section: 6x1 mm² + 1x2,5 mm² Cable type: FLRYY / PVC	
1.000 mm AMP 1.5 socket, straight > AMP 1.5 plug, straight	794 010 700
1.000 mm AMP 1.5 socket, straight > AMP 1.5 plug, angled	794 010 701
2.000 mm AMP 1.5 socket, straight > AMP 1.5 plug, straight	794 020 700
2.000 mm AMP 1.5 socket, straight > AMP 1.5 plug, straight	794 020 700

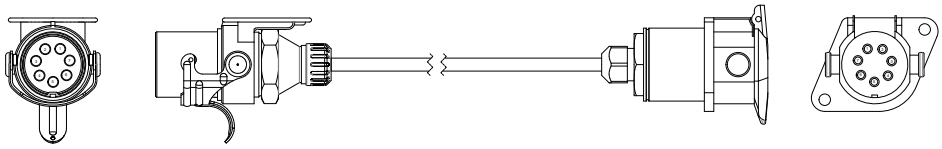




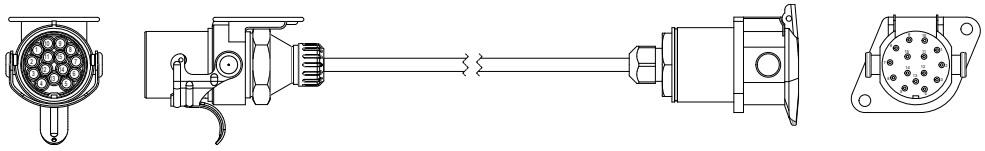
Extension cable

	Application / Description	Article no.
	Adapter cable, 7 core Conductor cross-section: 6x1 mm^2 + 1x2,5 mm^2 Cable type: FLRYY / PVC **300 mm** AMP 1,5 socket, straight > AMP 1,5 socket, straight	794 003 740
	Extension cable EBS 7 core – ISO 7638 Conductor cross-section: 5x1,5mm^2 + 2x4mm^2 Cable type: FLRYY/PVC Not ADR-approved **1500 mm** Socket ISO 7638 > plug ISO 7638	994 015 075
	Extension cable 15 core – ISO 12098 Conductor cross-section: 12x1mm^2 + 3x2,5mm^2 Cable type: FLRYY/PVC Not ADR-approved **1500 mm** Socket ISO 12098 > plug ISO 12098	994 015 155



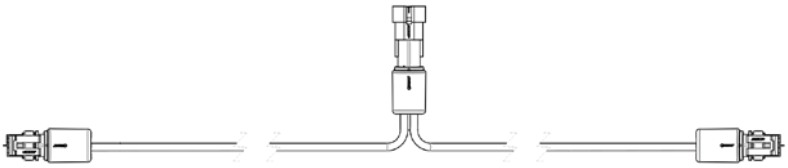
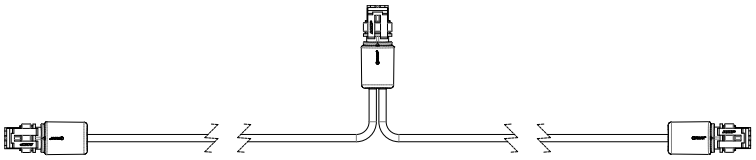
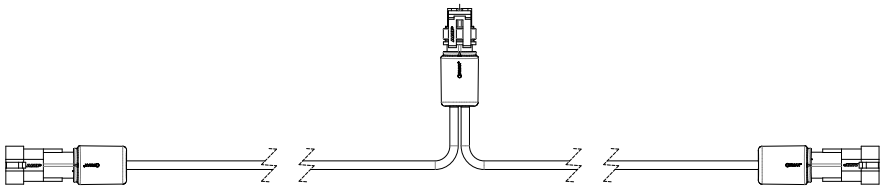


Should be used for extension of the chassis.
The cable is extended with 1500 mm from the original plug - removal of the original plug is avoided, hence time is saved

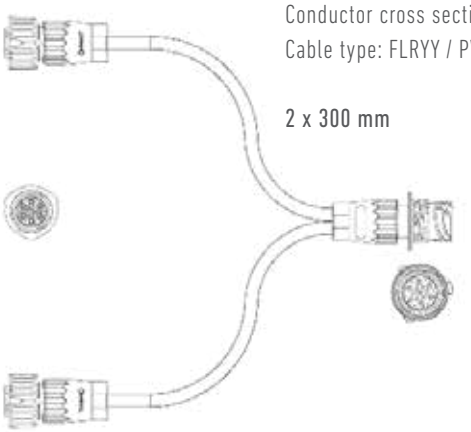
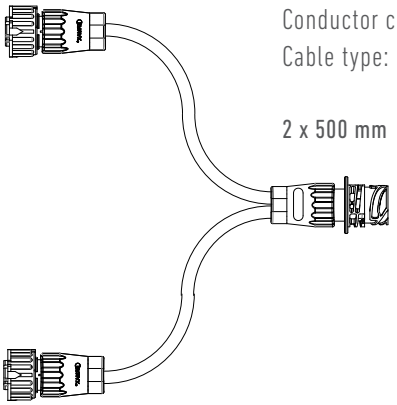
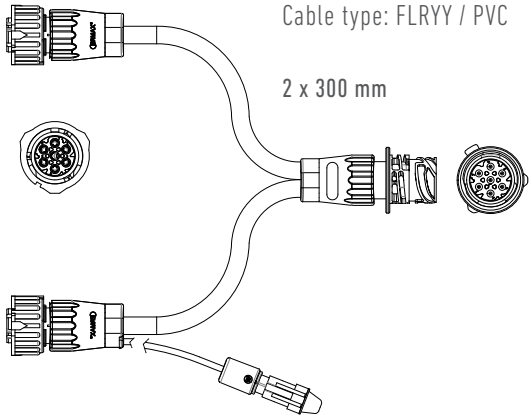


Should be used for extension of the chassis.
The cable is extended with 1500 mm from the original plug - removal of the original plug is avoided, hence time is saved

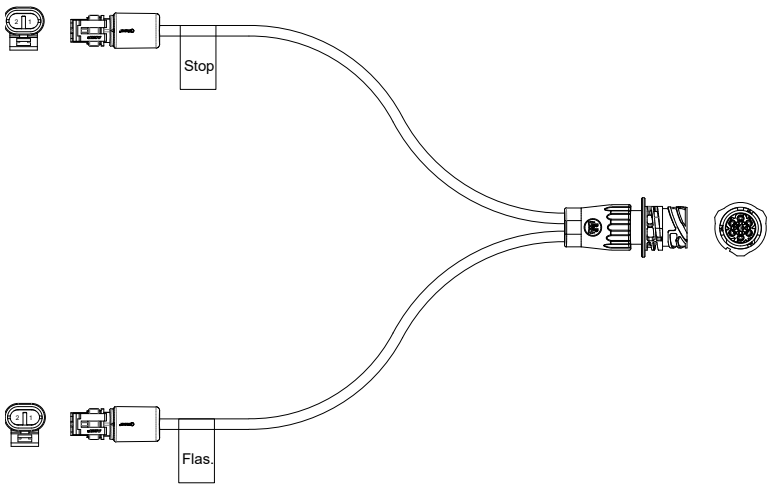
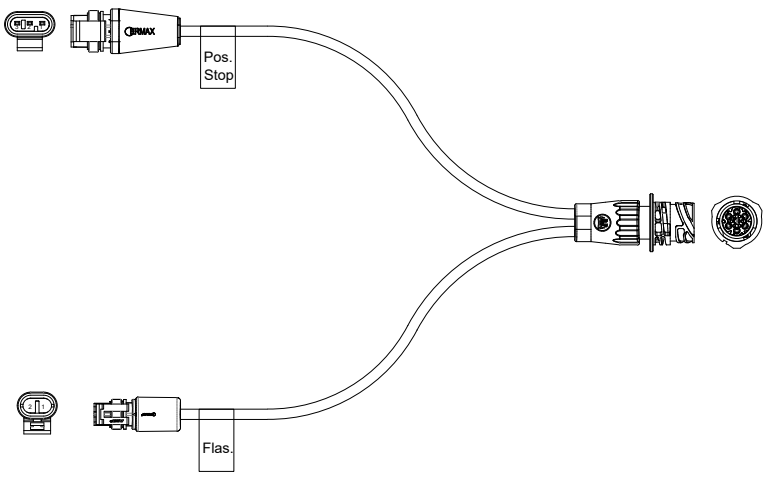
Y-Adapter cable

Application / Description	Article no.
Y-Adapter cable, 2 core Conductor cross-section: 2x1 mm² Cable type: FLRYY / PVC	
2 x 500 mm 1 x Super Seal socket + 2 x Super Seal plug	894 005 200
2 x 1.000 mm 1 x Super Seal socket + 2 x Super Seal plug	894 010 200
	
Y-Adapter cable, 2 core 3 x Super Seal plug Conductor cross-section: 2x1 mm² Cable type: FLRYY / PVC	
2 x 500 mm	894 005 230
2 x 2000 mm	894 020 230
2 x 3000 mm	894 030 230
2 x 4000 mm	894 040 230
2 x 6000 mm	894 060 230
	
Y-Adapter cable, 2 core 1 x Super Seal plug + 2 x Super Seal socket Conductor cross-section: 2x1 mm² Cable type: FLRYY / PVC	
2 x 500 mm Super Seal socket	894 005 240
	

Y-Adapter cable

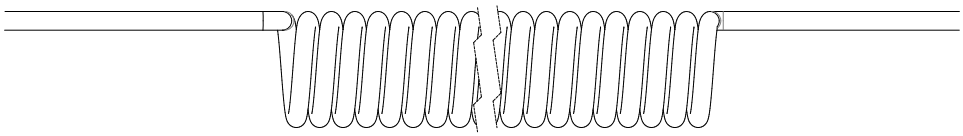
	Application / Description	Artikel-Nr.
	**Y-adapter cable 7 core** Y-adapter cable 7 core, 2 x 300 mm 2 x 7-poled AMP plug > 1 x 7-poled AMP 1,5 socket Conductor cross section: 7x1 mm^2 Cable type: FLRYY / PVC **2 x 300 mm**	894 003 740
	**Y-Adapter cable, 6 core** 1 x AMP 1.5 socket, straight + 2 x AMP 1.5 plug, straight Conductor cross-section: 5x1mm^2 + 1x2,5 mm^2 Cable type: FLRYY / PVC **2 x 500 mm**	894 005 640
	**Y-Adapter cable, 6 core** 1 x AMP 1,5 plug, straight + 2 x AMP 1,5 socket, straight With 1x2 core outlet (200 mm) with Super Seal socket for connection of position or side marker lights Conductor cross-section: 5x1mm^2 + 1x2,5 mm^2 / 2x1 mm^2 Cable type: FLRYY / PVC **2 x 300 mm**	894 003 641

Y-Adapter cable

	Application / Description	Article no.
Pin configuration 7 poled AMP socket: 1 = Ground 4 = Direction indicator 5 = Stop Pin configuration 2 poled super seal plug: 1 = Ground 2 = Stop / direction indicator **Complementary to the TM14 Slim-Line light series**	**Y-Adapter cable, 7 core** 7 poled AMP socket > 2 x Super Seal plug with outlet for stop and direction indicator light Conductor cross-section: 2 x 0,5 mm² Cable type: FLRYY / PVC **2 x300 mm** 	994 003 282
Pin configuration 7 poled AMP socket: 1 = Ground 2 = Position 4 = Direction indicator 5 = Stop Pin configuration 3 poled super seal plug: 1 = Ground 2 = Position 3 = Stop Pin configuration 2 poled super seal plug: 1 = Ground 2 = Direction indicator **Complementary to the TM14 Slim-Line light series**	**Y-Adapter cable, 7 core** 7 poled AMP socket > 1 x 3 poled Super Seal plug with outlet for stop and direction indicator light + 1 x 2 poled Super Seal plug with outlet for direction indicator light Conductor cross-section: 2 x 0,5 mm² Cable type: FLRYY / PVC **2 x 300 mm** 	994 003 285

Part numbers from original manufactures are for reference purpose only and may not be used in offers or other material

Coil cable

Application / Description	Article no.
Coil cable 9 core Open end > Open end Number of coils: 26 Inside diameter: Ø 50 mm Conductor cross-section: 7x1mm²+2x2,5mm² Cable type: PUR **Working length 3.500 mm**	994 035 990
	
Coil cable 15 core 15 poled plug ISO 12098 Inside diameter: ø 38 mm Outside diameter: Ø 66 mm Conductor cross-section: 12x1,5mm²+3x2,5mm² Cable type: PUR **Working length 4.000 mm**	090 165 813
Coil cable ABS 5 core Socket ISO 7638-1 Inside diameter: Ø 22 mm Outside diameter: Ø 48 mm Conductor cross-section: 2x4mm²+3x1,5mm² Cable type: PUR **Working length 4.000 mm**	090 195 440

Accessories

	Application / Description	Article no.
	Plate grip for Click-In system For cable with click-in system Flexible and uncomplicated assembly	099 859 970
	Click-In cable 1,5 mm² with open end 500 mm 1.500 mm 3.500 mm	 794 005 280 794 015 280 794 035 280
	Cap for Click-in cable 1,5 mm² 10 pcs per plastic bag	098 291 950
	Adapter, double click-in 1,5 mm For connection of two flat cables Suitable for 1,5 mm² flat cable Must be mounted with 2 pcs. of 098 291 950 clamps (included) Dimension: 68 x15 x 22,1 x 15,4 mm	099 110 032
	Adapter, double click-in 1,5 mm For connection of two flat cables Suitable for 1,5 mm² flat cable Must be mounted with 2 pcs. of 098 291 950 clamps (not included) Dimension: 68 x15 x 22,1 x 15,4 mm.	099 110 030
	Adapter, double click-in For connection of two flat cables, 1,50 <> 0,75 mm Length: 120 mm Incl. clamps	099 110 031
	End plug for flat cable for 1,5 mm² click-in Dimension: Ø15 x 35 mm.	099 110 031

JUNCTION BOX

ERMAX®

Junction boxes
- standardized solutions for optimal configuration

Universal Junction Box

The universal junction box is without pre-configurated connections and cable exits and is universal for various applications.

The cable entries are prepared for different cable dimensions and can - if needed - be replaced with other cabling sizes, Super Seal sockets or 7 poled AMP sockets.

Junction box for crane modules - with many possibilities

By integrating the EEMAX junction box in the cables system, it is possible to get all AUX functions, which normally exist on a trailer.

With other words - With this junction box it is possible to use all pre-configurated ISO12098 connections (pin 9-15). E.g. for the work light, warning light or other ordinary power supply.

All functions are available by using the Super Seal socket or cable glands. For crane module solutions it is necessary that the tail lights are installed in the junction box, as the tail lights can thus be passed on to the crane module.

Your advantages with ERMAX solution:

- Unique flexibility due to fast and easy replacement of cable entries and sockets (2 poled Super Seal and 7 poled AMP sockets)
- Time-saving and easy built-in of the junction box due to pre-cabling
- Various free cables entries for universal use
- 2 sizes are available. The flat version can easily be re-built into double size
- 15 poled sockets can be integrated

Spare part overview - see the end of this section

Junction box - Universal

Junction box - Crane module

Junction box standard program - overview

Ø13-11 mm

Ø10-7 mm

Ø6-4 mm

Ø5,5 mm x 2

Box type	Cover	Inlet	Outlet	Connection - Cable gland	Article no.
Junction box universal	Low	PG Ø13-11 mm	--	4 x Ø5,5 mm x 2 2 x Ø6-4 mm 1 x Ø10-7 mm	099 866 700
	Hight	PG Ø13-11 mm	--	1 x Ø5,5 mm x 2 8 x Ø6-4 mm 4 x Ø10-7 mm	099 866 750
Junction box Crane module	Hight	1 x 15 poled Ermax Bayonet socket	4 x 7 poled AMP socket	4 x Ø5,5 mm x 2 2 x Super Seal, Position Right / Left 1 x Super Seal, reverse 1 x Super Seal, AUX1 1 x Super Seal, AUX2 1 x Super Seal, AUX3	099 866 767

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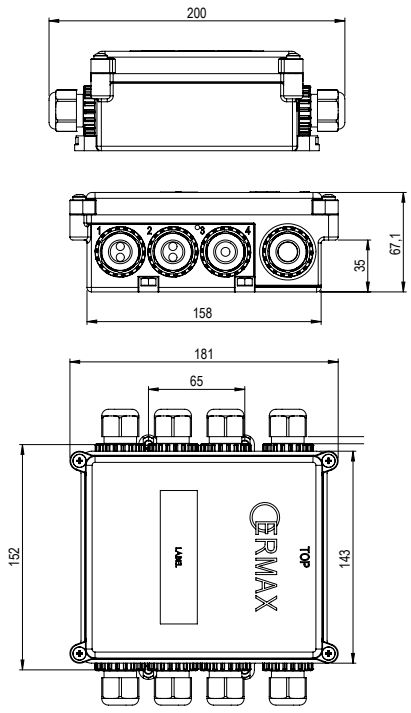
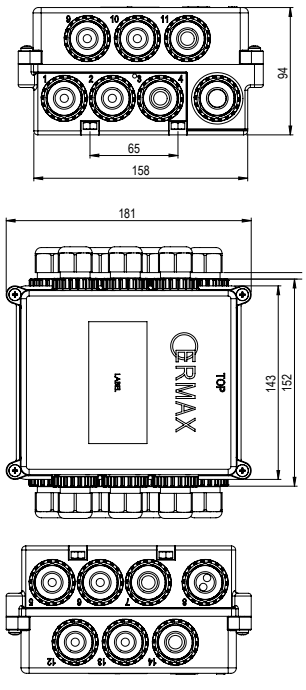
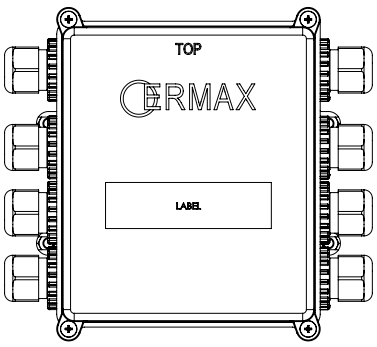
Junction box, Universal

	Application / Description	Article no.
	**Junction box** Housing of black plastic IP-Rating: IP 67 **Low cover - Connections:** **Inlet**: Cable gland Ø13-11 mm Cable glands: 4 x Ø5,5 mm x 2 2 x Ø6-4 mm 1 x Ø10-7 mm	099 866 700
	High cover - Connections: **Inlet:** Cable gland Ø13-11 mm Cable glands: 1 x Ø5,5 mm x 2 8 x Ø6-4 mm 4 x Ø10-7 mm	099 866 750

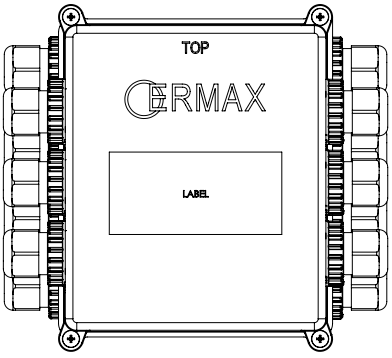
Low cover



High cover



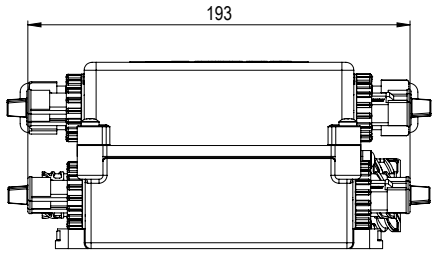
Low cover

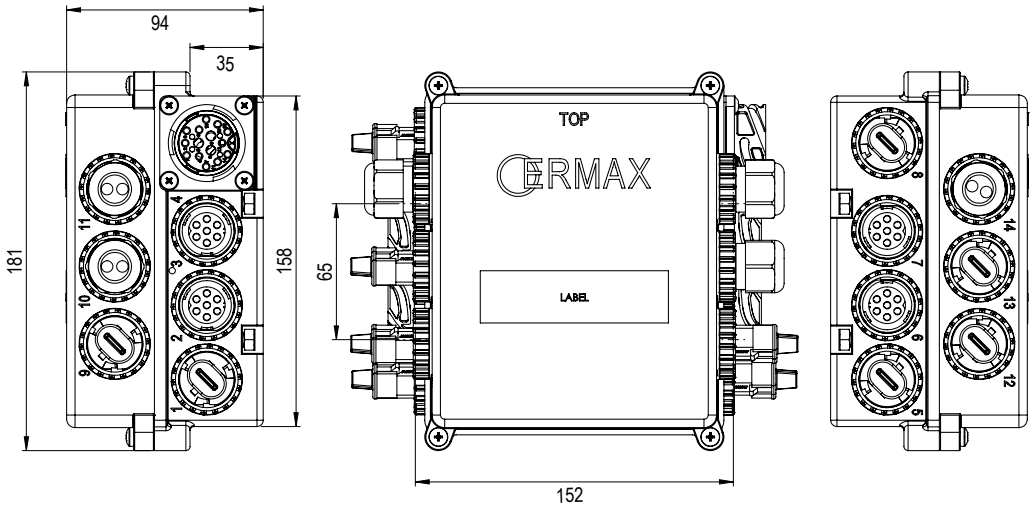


High cover

Junction box, Crane module

	Application / Description	Article no.
	Junction box **For crane module** **(in connection with coil cable 994 030 250)** Housing of black plastic IP-Rating: IP 67 **High cover - Connections:** **Inlet:** 1 x 15 poled Ermax Bayonet socket **Outlet:** 4 x 7 poled AMP socket (Pos. 2, 3, 6, 7) 3 x Cable glands, 2 x ø5,5 mm (Pos. 10, 11, 14) 1 x Super-Seal socket, position light Right (Pos. 5) 1 x Super-Seal socket, position light Left (Pos. 1) 1 x Super-Seal socket, reverse light (Pos. 8) 1 x Super-Seal socket, AUX1 (Pos. 12) 1 x Super-Seal socket, AUX2 (Pos. 9) 1 x Super-Seal socket, AUX3 (Pos. 13) The functions of the orginal vehicle's tail lights must be connected in the junction box, e.g. via the adapter cable to the 7 poled AMP socket. The tail lights should be connected to the 7 poled AMP socket.	099 866 767





Spare parts Junction box

Pos. 1

Pos. 2

Pos. 3

Pos. 4

Pos. 5

Pos. 6

Pos. 7

Pos. 8

Pos. 9

Pos. 10

Pos.11

Pos. 12

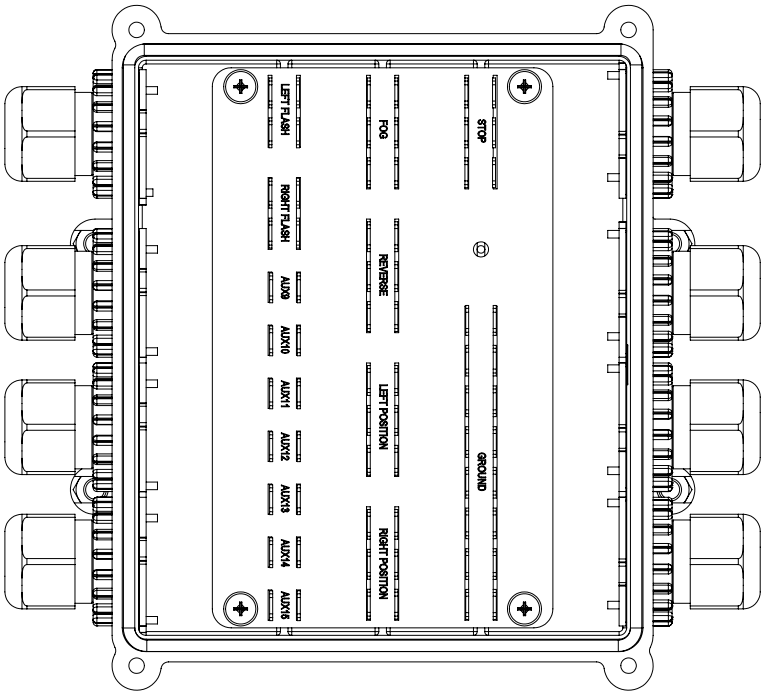
Pos. 13

Pos. 14

Spare parts / Accessories for the ERMAX Junction box

Junction box without cover and connections (basic model). 14 x in-/outlet. 158 x 143 mm	1	099 110 200
Cover for junction box, low model, 158 x 143 x18 mm	2	099 110 201
Cover for junction box, high model, 158 x 143 x 45 mm	3	099 110 202
Seal for in-and outlet in junction box	4	099 110 203
Bayonet ring for in- and outlet in junction box	5	099 110 204
Cable gland M22/2,0 for junction box	6	099 110 205
Nut for cable gland M22/2,0 for junction box	7	099 110 206
Rubber blind for cable gland Ø16/Ø13-11 mm for junction box	8	099 110 207
Rubber blind for cable gland Ø16/Ø7-11 mm for junction box	9	099 110 208
Rubber blind for cable gland Ø16/ø6-4 mm for junction box	10	099 110 209
Rubber blind for cable gland Ø16/2 x ø5,5 mm for junction box	11	099 110 210
Super Seal socket for mounting in the junction box. Black and white (-) wire	12	099 110 211
AMP 1,5 7 poled socket for junction box	13	099 110 212
Heating cable (resistor) 24V / 5W with blade receptacles. Length: 545 mm	14	093 865 125

Connection ISO 12098 Pin connection / Number of flat plugs 6,3 x 0,8 mm



		Description	Pcs
	1	Left Direction indicator light	4 pcs.
	2	Right Direction indicator light	4 pcs.
	3	Rear fog light	6 pcs.
	4	Ground	16 pcs.
	5	Left position light	6 pcs.
	6	Right position light	6 pcs.
	7	Stop light	6 pcs.
	8	Reverse light	6 pcs.
	9	Power supply. permanent positive	2 pcs.
	10	Aux 1, brake-wear sensor	2 pcs.
	11	Aux 2, stop control for trailers	2 pcs.
	12	Aux 3, lift axle	2 pcs.
	13	Ground for pin 9-15 (ISO12098)	2 pcs.
	14	CANH - Data communication	2 pcs.
	15	CANL - Data communication	2 pcs.

Part numbers from original manufactures are for reference purpose only and may not be used in offers or other material

Junction box

Pos 1

Pos 2

Pos 3

Plastic housing

Funktions

IP-Rating	Connection	Dimension L x B x H	Fastening	Outlet	Pos	Article no.
IP56	8 x 6 blade terminals 6,3 x 0,8 mm	155 x 100 x 50 mm	Hole Ø5,5 mm	4 outlets (2 x M20 x 1,5 + 2 x M16 x 1,5)	1	099 868 249
IP56	8 x 6 blade terminals 6,3 x 0,8 mm	155 x 130 x 50 mm	Hole Ø5,5 mm	6 outlets (2 x M20 x 1,5 + 4 x M16 x 1,5)	2	099 868 269
IP56	13 x 6 blade terminals 6,3 x 0,8 mm	245 x 170 x 70 mm	Hole Ø5,5 mm	7 outlets (1 x M25 x 1,5 + 4 x M20 x 1,5 + 2 x M16 x 1,5)	3	099 868 314

Spare parts

Cable connector - 8 poled	099 868 291
Cable connector - 13 poled	099 868 392

Seal, rubber

Functions

For cable diameter Ø	Hole Ø	Thickness	Article no.
5-7 mm	16 mm	1-4 mm	999 876 309
7-10 mm	19 mm	1-4 mm	999 876 311
10-14 mm	23 mm	1-4 mm	999 876 316
14-20 mm	29 mm	1-4 mm	999 876 321

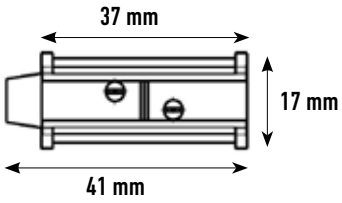
PLUG TYPE & PIN CONFIGURATION

ERMAX®

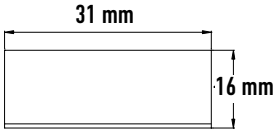
OVERVIEW - PLUG CONNECTION FOR ERMAX LIGHTING SYSTEMS

Plug type, designation and dimension

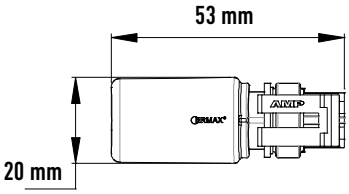
2 poled Click-in plug



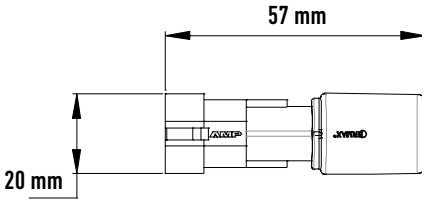
Click-in cap



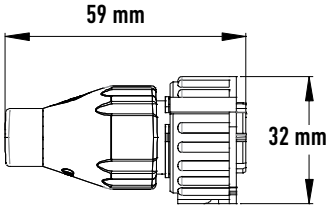
2 poled Super Seal plug



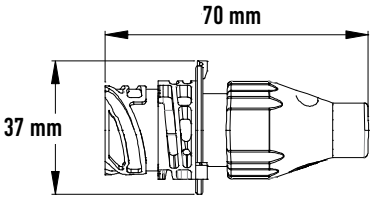
2 poled Super Seal socket



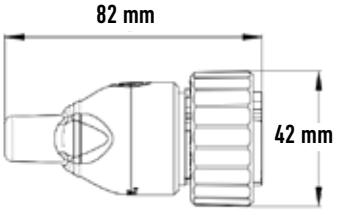
7 poled AMP 1.5 plug



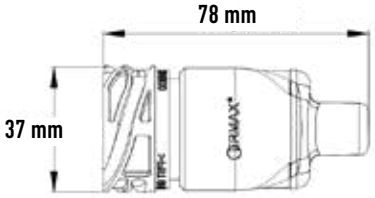
7 poled AMP 1.5 socket



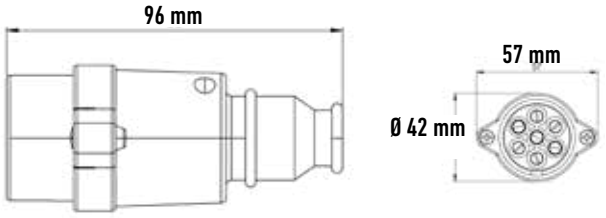
15 poled Bayonet plug



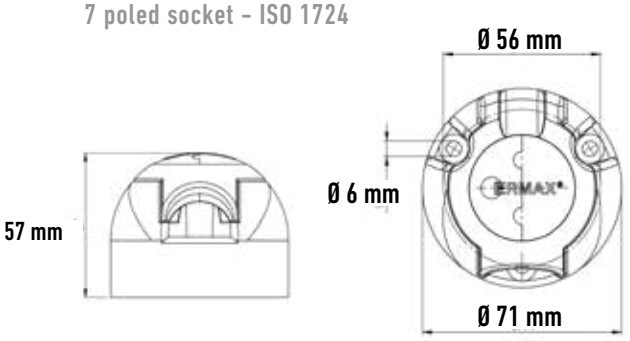
15 poled Bayonet socket



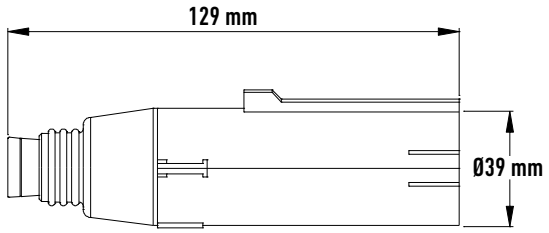
7 poled plug - ISO 1724



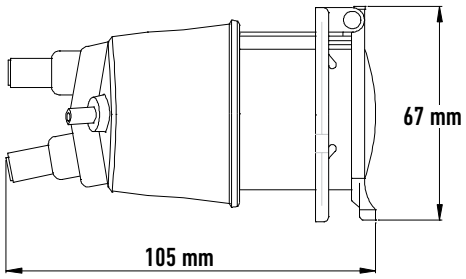
7 poled socket - ISO 1724



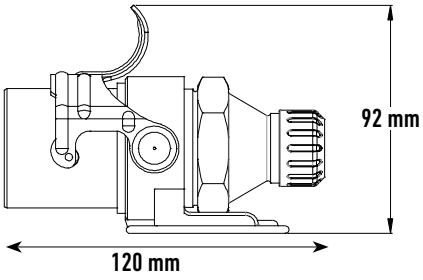
7 poled plug - ISO 3731 / ISO 1185



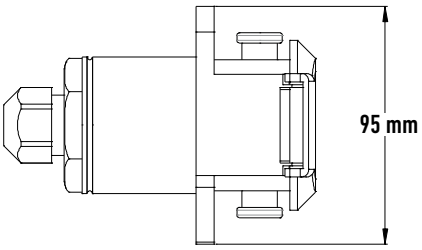
7 poled socket - ISO 3731 / ISO 1185



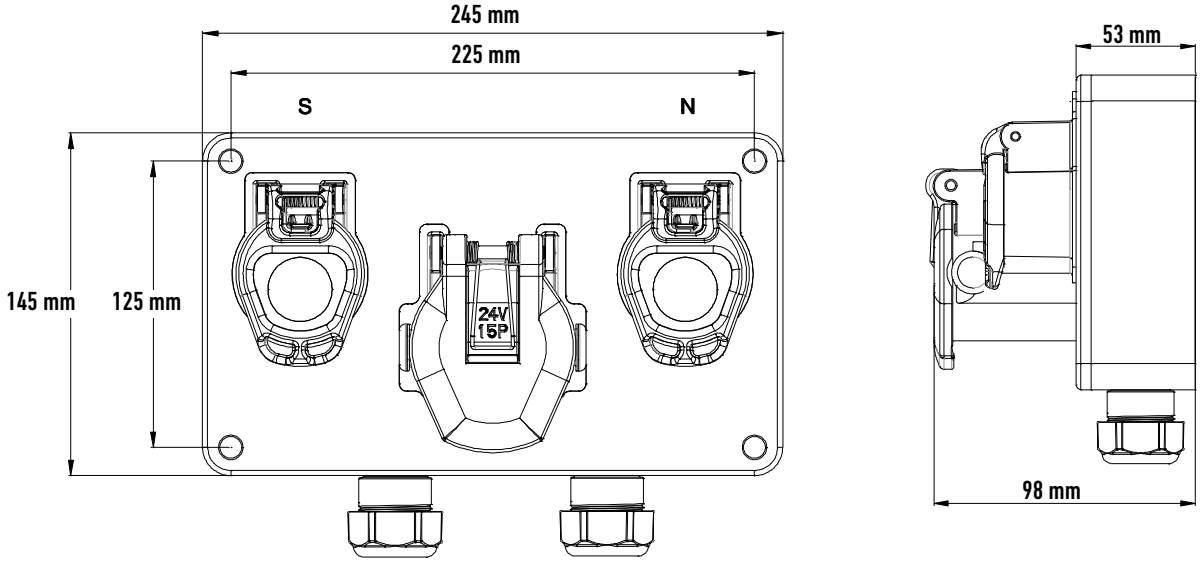
15 poled ADR plug - ISO 12098



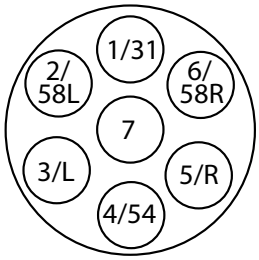
15 poled ADR socket - ISO 12098



Frontbox



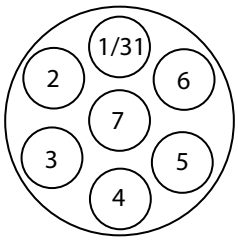
Pin configuration Type N 24V, 7 poled ISO 1185



	Color	Description
1 / 31	White	Ground (-)
2 / 58L	Black	Position and marker light Left [1]
3 / L	Yellow	Direction indicator light Left
4 / 54	Red	Stop light
5 / R	Green	Direction indicator light Right
6 / 58R	Brwon	Position and marker light Left [1]
7	Blue	Aux2 / Stop control for trailer

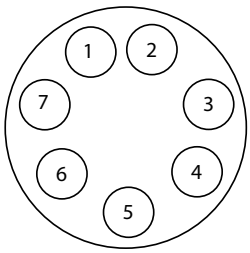
[1] The license plate light must be connected so that no lights of this illumination have common connection with pin 2 and 6

Pin configuration Type S 24V, 7 poled ISO 3731



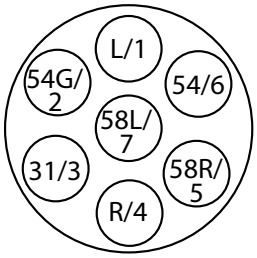
	Color	Description
1 / 31	White	Ground for pin 9-15 (ISO 12098)
2	Black	No allocation (CANH, Data communication)
3	Yellow	Reverse light
4	Red	Permanent power supply (+)
5	Green	No allocation (CANL, Data communication)
6	Brown	Aux3 / Lift axle
7	Blue	Rear fog light

Pin configuration ABS-EBS 24V, 5/7 poled ISO 7638



	Color	Description
1	Red	Plus electro valve
2	Black	Plus electronic
3	Yelow	Minus electronic
4	Brown	Minus electro valve
5	White	Warning unit
6	White-Green	Data communication
7	White-Brown	Data communication

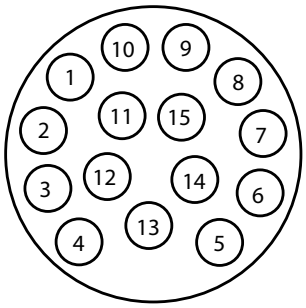
Pin configuration N-type 12V, 7 poled ISO 1724



	Color	Description
L / 1	Yellow	Direction indicator light Left
54G / 2	Blue	Rear fog light
31 / 3	White	Ground (-)
R / 4	Green	Direction indicator light Right
58R / 5	Brown	Position-, side markers-and license plate light, Right [1]
54 / 6	Red	Stop light
58L / 7	Black	Position-, side markers-and license plate light, Left [1]

[1] The license plate light must be connected so that no lights of this illumination have common connection with pin 5 and 7

Pin configuration 24V, 15 poled ISO 12098



	Color	Description
1	Yellow	Direction indicator light Left
2	Green	Direction indicator light Right
3	Blue	Rear fog light
4	White	Ground (-)
5	Black	Position and marker light Left [1)]
6	Brown	Position and marker light Right [1)]
7	Red	Stop light
8	Pink	Reverse light
9	Orange	Permanent power supply (+)
10	Gray	Aux1 / Brake-wear-sensor
11	White / Black	Aux2 / Stop control for trailer
12	White / Blue	Aux3 / Lift axle
13	White / Red	Ground for pin 9-15 (ISO 12098)
14	White / Green	CANH, Data communication
15	White / Brown	CANL, Data communication

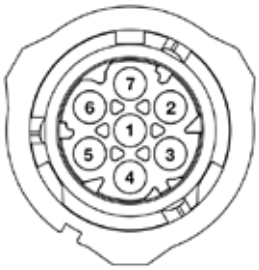
[1)] The license plate light must be connected so that no lights of this illumination have common connection with pin 5 and 7

Pin configuration Ermax 15 poled Bayonet plug

	Color	Description
1	Black	Position and marker light Left
2	Yellow	Direction indicator light Left
3	Red	Stop light
4	White / green	CANH, Data communication
5	White	Ground (-)
6	Pink	Reverse light
7	White / Black	Aux2 / Stop control for trailer
8	White / red	Ground for pin 9-15 (ISO 12098)
9	Orange	Permanent power supply (+)
10	Blue	Rear fog light
11	Gray	Aux1 / Brake-ware sensor
12	White / brown	CANL, Data communication
13	Brown	Position and marker light Right
14	White / blue	Aux3 / Lift axle
15	Green	Direction indicator light Right

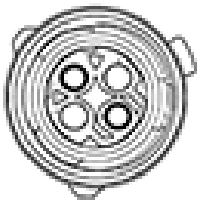
Part numbers from original manufactures are for reference purpose only and may not be used in offers or other material

Pin configuration AMP plug 7 poled



	Color	Description
1	White	Ground (-)
2	Green	Position light
3	Brown	Reverse light
4	Yellow	Direction indicator light
5	Red	Stop light
6	Blue	Rear fog light
7	-	-

Pin configuration AMP plug 4 poled



	Color	Description
1	Blue	Permanent power supply (+)
2	Brown	Ground (-)
3	-	(not connected)
4	-	(not connected)

Pin configuration Super Seal plug 3 poled

	Color	Description
1	Brown	Ground (-)
2	Blue	Position light
3	Yellow / Green	Stop light

Pin configuration Super Seal plug 2 poled

	Color	Description
1	Brown	Ground (-)
2	Blue	Permanent power supply (+)

Pin configuration Deutsch (DT2) plug 2 poled

	Color	Description
1	Blue	Permanent power supply (+)
2	Brown	Ground (-)

Part numbers from original manufactures are for reference purpose only and may not be used in offers or other material

Brands of the BPW Group:

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