



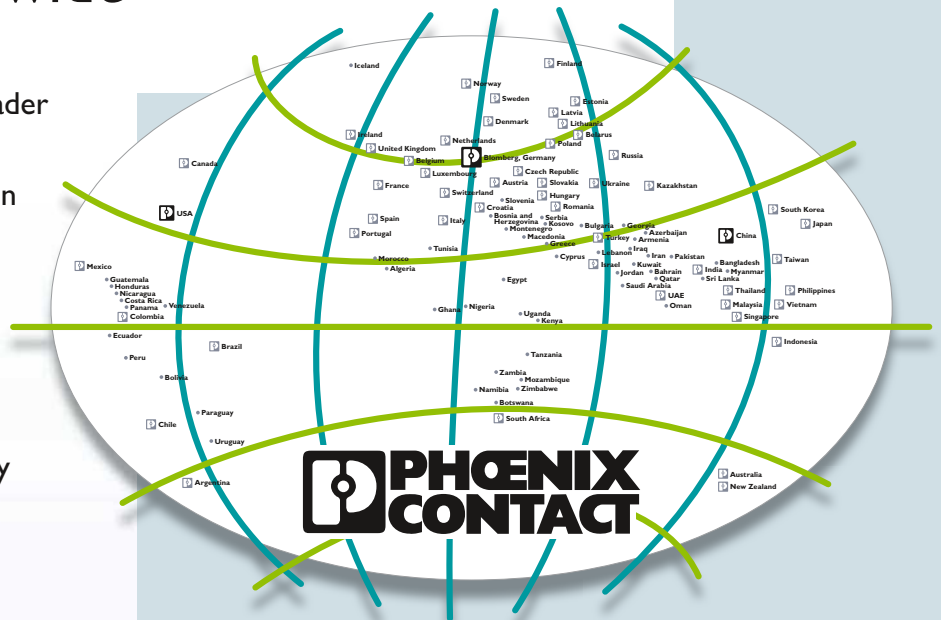
# Lighting and signaling

More than just light

# PHOENIX CONTACT – In dialog with customers and partners worldwide

Phoenix Contact is a global market leader in the field of electrical engineering, electronics and automation. Founded in 1923, the family-owned company now employs around 14,500 people worldwide. A sales network with over 50 sales subsidiaries and more than 30 additional global sales partners guarantees customer proximity directly on site, anywhere in the world.

Our range of services consists of products associated with various electrotechnical applications. This includes numerous connection technologies for device manufacturers and machine building, components for modern control cabinets, and tailor-made solutions for many applications and industries such as the automotive industry, wind energy, solar energy, the process industry or applications in the field of water management, power transmission/distribution, and transportation infrastructure.



## Global player with personal customer contact

Company independence is an integral part of our corporate policy. Phoenix Contact therefore relies on in-house competence and expertise in a range of contexts: the design and development departments constantly come up with innovative product ideas, developing special solutions to meet customer requirements. Numerous patents emphasize the fact that many of Phoenix Contact's products have been developed in-house.





### Light in the control cabinet

Optimal illumination, quick to install. LED technology for control cabinets and control boxes.



### Light in the machine

Integrate LED lighting perfectly into your machines. Machine lighting for every application.



### Light on the machine

Easily detect machine states by combining visual and acoustic signals in one module.

## Content

### PLD Enclosure Lights

Class 400	4
Class 600	6
Technical data	8

### PLD Machine Lights

Class 100	10
Class 200	12
Class 300	16
Technical data	20

### PSD Signal Towers

Overview	24
Technical data	26

## Other lighting and signaling solutions from Phoenix Contact



Benefit from a complete tower lighting system for wind turbine generators, offering an uninterrupted power supply and LED lights.



With LED signal lights and control technology from Phoenix Contact, you can design reliable and energy-efficient signaling systems for maritime use, including for locks or bridges. Thanks to the bus connection, the signaling unit can be seamlessly integrated into your network and automation environment.



To ensure that light creates a safe, concentrated and ambient atmosphere in the office and in production, it is worth investing in the adjustable and controlled lighting. Phoenix Contact offers different light distributor cabinets which are fully assembled and easy to operate.

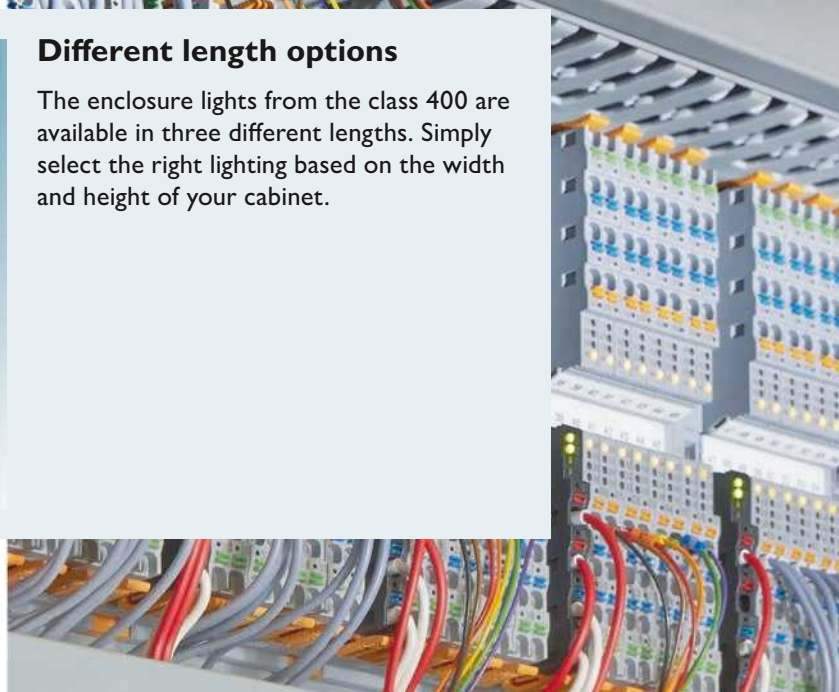
# PLD enclosure lights – Optimal illumination, quick to install

PLD enclosure lights (Phoenix Contact Lighting Devices) provide optimal illumination for your control cabinet, even at the very bottom of the cabinet. They are easy to install and no tools are needed. Choose from two performance classes and a particularly flexible product range that meet your special LED lighting needs. If you don't have much space in your control cabinet or if you are looking for a cost-effective option, but still want the perfect lighting solution, we recommend class 400. With its swiveling light emission window and various assembly options, this lighting solution gives you maximum flexibility.



## Different length options

The enclosure lights from the class 400 are available in three different lengths. Simply select the right lighting based on the width and height of your cabinet.





## Installation

A click system for fast, tool-free assembly reduces installation costs and increases flexibility.

## Prismatic system

Optimal illumination of the control cabinet's interior, even at the bottom.

## Additional advantages

- Series connections reduce the costs of cabling additional lights in control cabinets arranged in a series
- Various operating modes enable flexible use of the lights, even with door position switches
- Individual customization for your particular control cabinet through various light lengths and a swiveling light emission window
- An LED service life of at least 50,000 hours prevents maintenance costs incurred through light and light bulb replacements, and does not rely on switching cycles
- UL approval allows these systems to be used on the North American market



# PLD enclosure lights – Optimal illumination, quick to install

The class 600 lights feature a motion detector and an optional, country-specific socket for fast, easy maintenance of your control cabinet. Thanks to the integrated, high-quality optics, you achieve particularly bright illumination even in large control cabinets. Because of the variety of installation options, you can also quickly and flexibly install the class 600 LED lights in your control cabinet.



## Variants

You can obtain the enclosure lights from the class 600 with or without the country-specific socket (e.g. Europe, USA/Japan and France/Belgium).



## Installation

A patented retaining hook system for fast, tool-free assembly reduces installation costs and increases flexibility.

## Visibility

Optimal illumination of the control cabinet's interior, even at the bottom.

## Additional advantages

- An AC wide-range input enables global use, prevents order errors and reduces inventory costs
- Status LEDs indicate which of the three modes the light is operating in
- Series connections reduce the costs of cabling additional lights in control cabinets arranged in a series
- The integrated sensor saves on MRP and installation costs for door position switches
- Country-specific variants allow external devices to be operated anywhere in the world, even with a de-energized control cabinet
- An LED service life of at least 50,000 hours prevents maintenance costs incurred through light and light bulb replacements, and does not rely on switching cycles
- UL approval allows these systems to be used on the North American market



## Technical data for class 400 PLD enclosure lights

Ambient conditions		Light properties	
Temperature range (operation)	-25 °C ... +60 °C	Color temperature	5,000 K
Relative humidity (operation)	5 % ... 95 %	Color rendering index (R <sub>a</sub> )	≥ 75
Vibration	5g in acc. with EN 60068-2-6	<b>Electromagnetic compatibility</b>	
Shock	25g in acc. with EN 60068-2-27	Noise emission	In accordance with EN 61000-6-4
Continuous shock	10g in acc. with EN 60068-2-27	Noise immunity	In accordance with EN 61000-6-2
Degree of protection	IP20	<b>Supply voltage</b>	
<b>Service life</b>		Nominal voltage	24 V DC
LED service life (L70)	50,000 h	Permissible range	19.2 V DC ... 30 V DC

## Product overview of the class 400 PLD enclosure lights

			
<b>Type</b>	<b>PLD E 400 W 250</b>	<b>PLD E 400 W 375</b>	<b>PLD E 400 W 500</b>
Order No.	2702221	2702222	2702223
Dimensions L x W x H	250 mm x 23 mm x 38 mm	375 mm x 23 mm x 38 mm	500 mm x 23 mm x 38 mm
Luminous flux	140 lm (net luminous flux)	340 lm (net luminous flux)	560 lm (net luminous flux)
Protection class	III	III	III
Power consumption	1.5 W	3 W	5 W

## Accessories

<b>Type</b>	<b>SAC-3P- 3,0-PUR/M 8SIFS AE</b>	<b>PLD E 400-DS-3,0/FS/0,6</b>	<b>PLD E 400-DS-MS/1,0-FS/0,6</b>
Order No.	1417698	2702336	2702337
Description	Connection cable with socket and free cable end, halogen-free PUR, black, 3 m, 3 x 0.25 mm <sup>2</sup>	Door position switch set: 3 m line with free cable end, 0.6 m line with M8 socket, incl. mounting material	Door position switch set: 1 m line with M8 plug, 0.6 m line with M8 socket, incl. mounting material
<b>Type</b>	<b>SAC-3P-M 8MS/ 0,6-PUR/M 8SIFS</b>	<b>SAC-3P-M 8MS/ 1,0-PUR/M 8SIFS</b>	<b>SAC-3P-M 8MS/ 3,0-PUR/M 8SIFS</b>
Order No.	1417699	1417700	1417701
Description	Cable for series connection with M8 socket and M8 plug, halogen-free PUR, black, 0.6 m, 3 x 0.25 mm <sup>2</sup>	Cable for series connection with M8 socket and M8 plug, halogen-free PUR, black, 1 m, 3 x 0.25 mm <sup>2</sup>	Cable for series connection with M8 socket and M8 plug, halogen-free PUR, black, 3 m, 3 x 0.25 mm <sup>2</sup>
<b>Type</b>	<b>PLD E 400-ME MM</b>	<b>PLD E 400-ME SM</b>	<b>PLD E 400-ME CM</b>
Order No.	2702312	2702313	2702314
Description	2 magnets for magnet mounting	2 fasteners for screw mounting, including screws and washers	2 clip holders (replacement parts)
<b>Type</b>	<b>PLD E 400-DS/1AC/24DC/12W</b>	<b>PLD E 400-DS/1AC/24DC/30W</b>	
Order No.	2702435	2702436	
Description	12 W power supply unit with country-specific plug adapters	30 W power supply unit with diverse, country-specific plug adapters	



## Technical data for class 600 PLD enclosure lights

### Ambient conditions

Temperature range (operation)	-25 °C ... +60 °C
Relative humidity (operation)	5 % ... 95 %
Vibration	5g in acc. with EN 60068-2-6
Shock	25g in acc. with EN 60068-2-27
Continuous shock	10g in acc. with EN 60068-2-27
Degree of protection	IP20

### Service life

LED service life (L70)	50,000 h
------------------------	----------

### Light properties

Luminous flux	685 lm (net luminous flux)
Color temperature	4,000 K
Color rendering index (Ra)	≥ 80

### Electromagnetic compatibility

Noise emission	In accordance with EN 61000-6-3
Noise immunity	In accordance with EN 61000-6-2

### Supply voltage

Permissible range	85 V AC ... 265 V AC
Frequency	50 Hz/60 Hz

## Product overview of the class 600 PLD enclosure lights

				
Type Order No.	<b>PLD E 608 W 265</b> 2702224	<b>PLD E 608 W 315/F</b> 2702226	<b>PLD E 608 W 315/B</b> 2702227	<b>PLD E 608 W 315/E</b> 2702228
Dimensions L x W x H	265 mm x 91 mm x 44 mm	315 mm x 91 mm x 44 mm	315 mm x 91 mm x 44 mm	315 mm x 91 mm x 44 mm
Socket	–	Type F (Schuko)	Type B	Type E
Motion sensor	Yes	Yes	Yes	Yes
Protection class	I	I	I	I
Power consumption	10 W	10 W	10 W	10 W

## Accessories

Type Order No.	<b>PLD E 608-CA-3,0/FS AM</b> 2702302	<b>PLD E 608-CA-3,0/FS/UL</b> 2702306		
Description	Connection cable with socket, free cable end, orange, 3 m, 3 x 1.5 mm <sup>2</sup>	Connection cable with socket, free cable end, black, 3 m, 3 x 1.5 mm <sup>2</sup> , UL approval		
Type Order No.	<b>PLD E 608-CA-MS/0,6/FS AM</b> 2702303	<b>PLD E 608-CA-MS/1,0/FS AM</b> 2702304	<b>PLD E 608-CA-MS/4,0/FS AM</b> 2702305	<b>PLD E 608-CA-MS/0,6/FS/UL</b> 2702307
Description	Cable for series connection with socket and plug, orange, 0.6 m, 3 x 1.5 mm <sup>2</sup>	Cable for series connection with socket and plug, orange, 1 m, 3 x 1.5 mm <sup>2</sup>	Cable for series connection with socket and plug, orange, 4 m, 3 x 1.5 mm <sup>2</sup>	Cable for series connection with socket and plug, black, 0.6 m, 3 x 1.5 mm <sup>2</sup> , UL approval
Type Order No.	<b>PLD E 608-CO-MS</b> 2702308	<b>PLD E 608-CO-FS</b> 2702309	<b>PLD E 608-CO-MS/FS/FR</b> 2702310	
Description	Plug for series connection, black, 3-pos.	Socket for power supply and series connection, black, 3-pos.	T-distributor with 2 sockets and 1 plug, black, 3-pos.	
Type Order No.	<b>PLD E 608-ME MM</b> 2702315	<b>PLD E 608-ME SM</b> 2702316	<b>PLD E 608-ME SFM</b> 2702317	
Description	2 magnets for magnet mounting	2 fasteners for screw mounting, including screws	2 fasteners with retaining hooks (replacement part)	

# PLD machine lights

## Class 100 – Lots of light for tight spaces

PLD machine lights (Phoenix Contact Lighting Devices) guarantee the best illumination for your machine. You can now select the right light for your application from three performance classes.

The class 100 lights stand out due to their very narrow design. This means they can be ideally integrated into the machine, even if there is not much space.

As they can be rotated, these lights also provide extremely good illumination at small to medium distances from the surface that you wish to illuminate.



### Different length options

Class 100 machine lights come in five different lengths. You can therefore select the right lights for your machine's size or achieve the illumination levels you need for your application.



## Design

The very narrow design of these lights allows them to be integrated in almost any machine area, even when space is tight.

## Illumination

Outstanding and targeted illumination for small to medium distances during alignment and maintenance work, also because of its swivel feature.

## Additional advantages

- The 24 V supply makes servicing easier and increases safety
- Ready to connect through the attached 3 m supply line
- Ready to install using the light mounts provided in the scope of delivery
- Maintenance-free due to very high LED service life of at least 50,000 hours (L70 value)
- IP67 protection allows use even under wet conditions
- ETL approval allows these systems to be used on the North American market

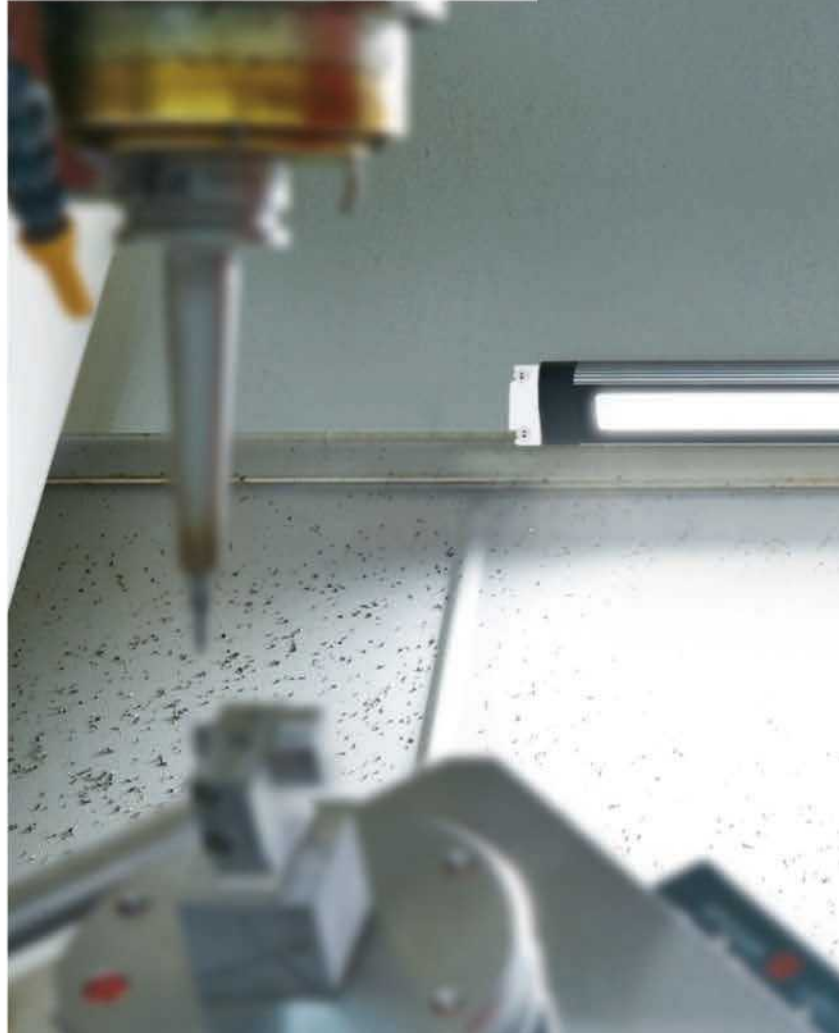


# PLD machine lights

## Class 200 – High illumination for any application

Class 200 LED machine lights are impressive due to their bright illumination. In comparison to the class 100 LED machine lights, these are ideal for medium to large distances to the target area.

Do you need lighting in a harsh environment? The lights from this class are the perfect answer to this because of their high vibration and shock resistance as well as their resistance to cooling agents and lubricants. You can ideally integrate the variants with 40 mm diameter into new machines. This enables you to illuminate your machine's interior efficiently and without taking up too much space.



### Different length options

The class 200 machine lights with a 40 mm diameter come in four different lengths. This means you can select the right lights for your machine size or the illumination you need to achieve for your application.



## Illumination

The most modern, highly efficient LED technology and a wide emission angle ensure low-glare and homogenous illumination even over larger target areas.

## Cabling

Free selection of cable lengths and simple installation thanks to the molded M12 connector.

## Additional advantages

- Compact thanks to small diameter
- 4 mm safety glass allows these lights to also be used in environments with potential mechanical load
- Resistant to many cooling agents and lubricants thanks to Viton® seal
- Can be used at high temperatures and can be subjected to strong vibrations and shock
- Flexible assembly options because its swivel feature comes in both assembly variants (angle or holder)
- ETL approval allows these systems to be used on the North American market



# PLD machine lights

## Class 200 – Fast switch to LED technology

Do you want to switch the lighting in your existing machines over to the most modern LED technology? You can easily accomplish this with the 70 mm diameter variant because these lights can be mounted in already installed pipe brackets.



### Different length options

The class 200 machine lights with a 70 mm diameter come in five different lengths. You can therefore select the right lights for your machine's size or achieve the illumination levels you need for your application.



## Illumination

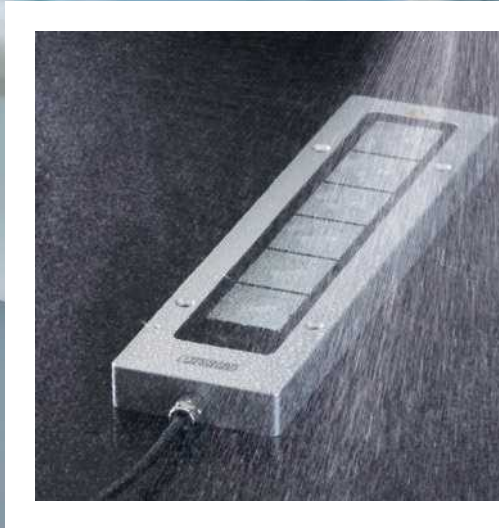
Low-glare illumination thanks to larger light emission window.

## Retrofitting

Exterior diameter of 70 mm to allow easy mechanical replacement of traditional tube lights.

## Additional advantages

- 4 mm safety glass allows these lights to also be used in environments with potential mechanical load
- Resistant to many cooling agents and lubricants thanks to Viton® seal
- Can be used at high temperatures and can be subjected to strong vibrations and shock
- Flexible assembly options because its swivel feature comes in both assembly variants (angle or holder)
- ETL approval allows these systems to be used on the North American market



## Optimal protection for your lights

For machine and system types which place the strictest demands on the degree of protection of the installed components, this class 200 version with IP69 protection is the ideal solution. Due to the narrow beam angle, the light is ideal for lighting smaller areas.

# PLD machine lights

## Class 300 – Fully integrated light

Make the most of your machine lighting: with the class 300 PLD machine lights you can benefit from all the advantages of LED technology and additionally save on material costs and installation time.

The use of a lighting interface opens up brand new possibilities for the class 300 PLD machine lights, thus increasing the efficiency of your machine.

Thanks to extensive mounting accessories and various integration options in your machine, you can achieve the necessary flexibility, even for system expansions or conversions.



### Different length options

The class 300 machine lights come in three different lengths, each with two emission angles. You can therefore select the right lights for your machine's size or achieve the illumination level you need for your application.





## Installation

Series connections with the SPEEDCON M12 fast locking system saves on cabling time and materials.

## Control

Flexible control and mounting – the PLD machine lights can be integrated into the machine in different ways.

## Additional advantages

- Cold switching eliminates the need for additional relays and switches with a high current-carrying capacity
- Lightning-fast processes become easy and cost-effective to manage due to the use of the stroboscopic effect
- Continuous dimming provides individualized light settings and a further reduction in energy costs
- Error indication – early error detection increases machine availability
- High-quality LEDs ensure a longer service life of at least 65,000 hours
- Excellent protective functions against polarity reversal, excessively high supply voltage, and overtemperature prevent the early failure of the light
- Laminated safety glass protects people and machinery from shards of glass
- UL approval allows these systems to be used on the North American market

## Visibility

Glare protection prevents the machine operator's performance from being impaired.

Various emission angles for individualized and optimal illumination.

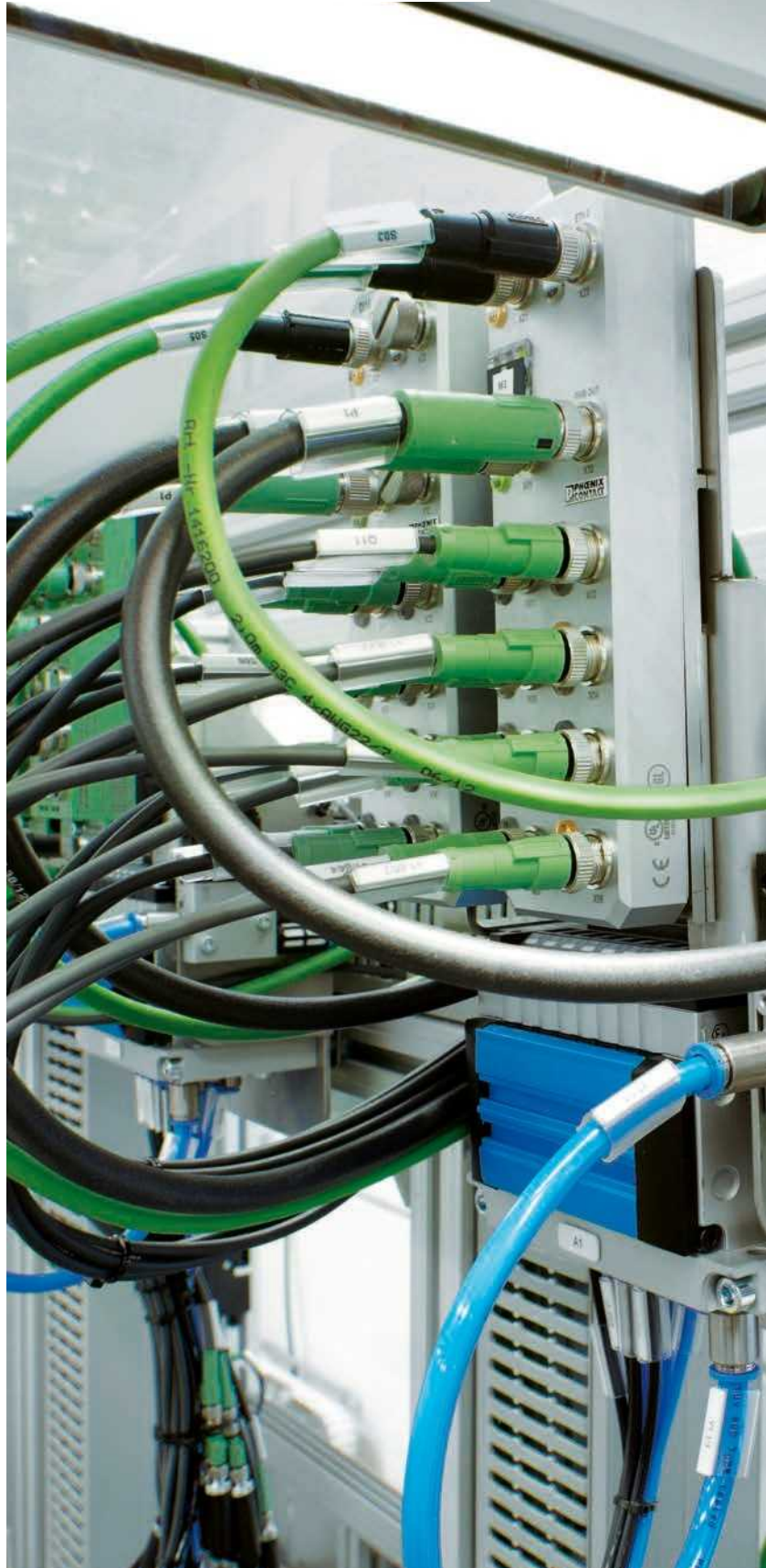


# PLD machine lights

## Class 300 – Fully integrated light

The class 300 PLD machine lights can be integrated into your machine in a variety of ways – individually suited to your requirements.

The lighting interface allows the lights to be controlled using an already existing I/O system. A PWM terminal block enables all functional options to be exhausted so that a machine conversion is quickly completed. If only the basic functions are required, then the machine can be switched on and off via a digital output or switch.



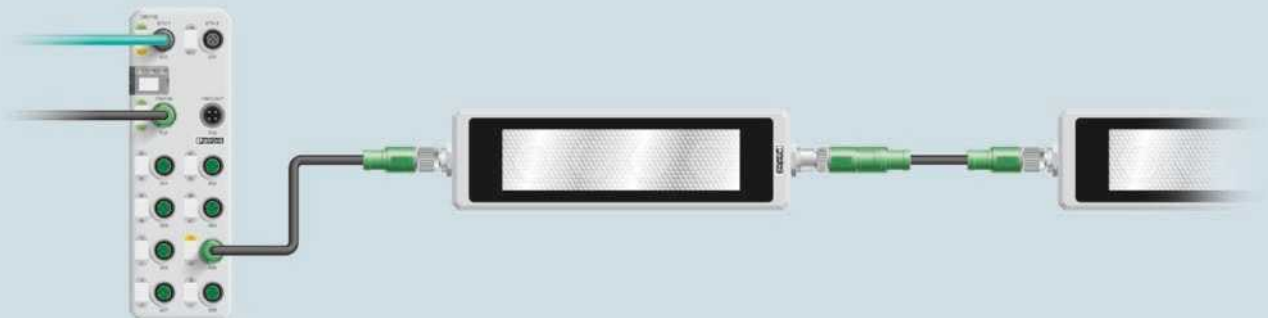
## Control from the control cabinet

The control of the PLD machine lights via a PWM terminal block enables integration into the existing IP20 I/O system.



## Control in the field

The control of PLD machine lights via a digital output module enables the use of basic functions.



## Technical data for class 100 PLD machine lights

### Ambient conditions

Temperature range (operation)	0 °C ... +25 °C
Relative humidity (operation)	95 %
Degree of protection	IP67
Resistant to cooling agents/lubricants	No

### Light properties

Color temperature	5,800 K
Color rendering index (R <sub>a</sub> )	≥ 70

### Electromagnetic compatibility

Noise emission	In accordance with EN 61000-6-3
Noise immunity	In accordance with EN 61547

### Service life

LED service life (L70)	50,000 h
------------------------	----------

### Supply voltage

Nominal voltage	24 V DC
Permissible range	22 V DC ... 29 V DC

## Product overview of class 100 PLD machine lights

			
<b>Type</b>	<b>PLD M 160 W-95/105 196</b>	<b>PLD M 160 W-95/105 336</b>	<b>PLD M 160 W-95/105 616</b>
Order No.	<a href="#">2702475</a>	<a href="#">2702476</a>	<a href="#">2702477</a>
Dimensions L x W x H	196 mm x 22.5 mm x 23 mm	336 mm x 22.5 mm x 23 mm	616 mm x 22.5 mm x 23 mm
Emission angle	95°/105°	95°/105°	95°/105°
Swivel range	±35°	±35°	±35°
Average illumination (1 m <sup>2</sup> area at a distance of 0.5 m)	89 lx	169 lx	336 lx
Maximum illumination (distance of 0.5 m)	206 lx	391 lx	691 lx
Power consumption	3.5 W	7 W	14 W

			
<b>Type</b>	<b>PLD M 160 W-95/105 896</b>	<b>PLD M 160 W-95/105 1176</b>	
Order No.	<a href="#">2702478</a>	<a href="#">2702479</a>	
Dimensions L x W x H	896 mm x 22.5 mm x 23 mm	1176 mm x 22.5 mm x 23 mm	
Emission angle	95°/105°	95°/105°	
Swivel range	±35°	±35°	
Average illumination (1 m <sup>2</sup> area at a distance of 0.5 m)	449 lx	535 lx	
Maximum illumination (distance of 0.5 m)	833 lx	908 lx	
Power consumption	21 W	28 W	

## Technical data for class 200 PLD machine lights

### Ambient conditions

Relative humidity (operation)	95 %
Resistant to cooling agents/lubricants	Yes

### Electromagnetic compatibility

Noise emission	In accordance with EN 61000-6-3
Noise immunity	In accordance with EN 61547

### Supply voltage

Nominal voltage	24 V DC
-----------------	---------

## Product overview for class 200 PLD machine lights, Ø 40 mm

				
<b>Type</b> Order No.	<b>PLD M 260 W-85/95 190/D40</b> 2702480	<b>PLD M 260 W-85/95 365/D40</b> 2702481	<b>PLD M 260 W-85/95 540/D40</b> 2702482	<b>PLD M 260 W-85/95 715/D40</b> 2702483
Dimensions L x W x H	190 mm x 40 mm x 30 mm	365 mm x 40 mm x 30 mm	540 mm x 40 mm x 30 mm	715 mm x 40 mm x 30 mm
Supply voltage range	20 V DC ... 28 V DC	20 V DC ... 28 V DC	20 V DC ... 28 V DC	20 V DC ... 28 V DC
Emission angle	85°/95°	85°/95°	85°/95°	85°/95°
Color temperature	5,000 K	5,000 K	5,000 K	5,000 K
Color rendering index (Ra)	≥ 85	≥ 85	≥ 85	≥ 85
LED service life (L70)	60,000 h	60,000 h	60,000 h	60,000 h
Average illumination (1 m <sup>2</sup> area at a distance of 1 m)	156 lx	348 lx	541 lx	718 lx
Maximum illumination (distance of 1 m)	216 lx	477 lx	732 lx	957 lx
Power consumption	5 W	10 W	16 W	21 W
Temperature range (operation)	0 °C ... +50 °C	0 °C ... +50 °C	0 °C ... +50 °C	0 °C ... +50 °C
Degree of protection	IP67	IP67	IP67	IP67
Vibration (in acc. EN 60068-2-6)	4g in acc. with EN 60068-2-6	4g in acc. with EN 60068-2-6	4g in acc. with EN 60068-2-6	4g in acc. with EN 60068-2-6
Shock (in acc. with EN 60068-2-27)	50g in acc. with EN 60068-2-27	50g in acc. with EN 60068-2-27	50g in acc. with EN 60068-2-27	50g in acc. with EN 60068-2-27

## Mounting accessories for class 200 PLD machine lights, Ø 40 mm

				
<b>Type</b> Order No.	<b>PLD M-ME MC/D40</b> 2702492	<b>PLD M-ME MC/D40</b> 2702527		
Description	Two mounting holders for lights PLD M 260 .../D40, swivel range ±20°	Two mounting brackets for lights PLD M 260 .../D40, swivel range ±45°		



## Technical data for class 200 PLD machine lights

### Product overview for class 200 PLD machine lights, Ø 70 mm and IP69 variant

				
<b>Type</b> Order No.	<b>PLD M 260 W-75/95 370/D70</b> 2702484	<b>PLD M 260 W-75/95 510/D70</b> 2702485	<b>PLD M 260 W-75/95 650/D70</b> 2702486	<b>PLD M 260 W-75/95 790/D70</b> 2702488
Dimensions L x W x H	370 mm x 70 mm x 58 mm	510 mm x 70 mm x 58 mm	650 mm x 70 mm x 58 mm	790 mm x 70 mm x 58 mm
Supply voltage range	18 V DC ... 30 V DC	18 V DC ... 30 V DC	18 V DC ... 30 V DC	18 V DC ... 30 V DC
Emission angle	75°/95°	75°/95°	75°/95°	75°/95°
Color temperature	5,000 K	5,000 K	5,000 K	5,000 K
Color rendering index (Ra)	≥ 85	≥ 85	≥ 85	≥ 85
LED service life (L70)	60,000 h	60,000 h	60,000 h	60,000 h
Average illumination (1 m <sup>2</sup> area at a distance of 1 m)	340 lx	506 lx	657 lx	814 lx
Maximum illumination (distance of 1 m)	443 lx	662 lx	856 lx	1056 lx
Power consumption	12 W	18 W	24 W	30 W
Temperature range (operation)	0 °C ... +45 °C	0 °C ... +45 °C	0 °C ... +45 °C	0 °C ... +45 °C
Degree of protection	IP67	IP67	IP67	IP67
Vibration (in acc. EN 60068-2-6)	4g in acc. with EN 60068-2-6	4g in acc. with EN 60068-2-6	4g in acc. with EN 60068-2-6	4g in acc. with EN 60068-2-6
Shock (in acc. with EN 60068-2-27)	50g in acc. with EN 60068-2-27	50g in acc. with EN 60068-2-27	50g in acc. with EN 60068-2-27	50g in acc. with EN 60068-2-27

		
<b>Type</b> Order No.	<b>PLD M 260 W-75/95 1070/D70</b> 2702489	<b>PLD M 280 W-40 284</b> 2702491
Dimensions L x W x H	1070 mm x 70 mm x 58 mm	284 mm x 74 mm x 20 mm
Supply voltage range	18 V DC ... 30 V DC	22 V DC ... 26 V DC
Emission angle	75°/95°	40°
Color temperature	5,000 K	6,500 K
Color rendering index (Ra)	≥ 85	≥ 65
LED service life (L70)	60,000 h	50,000 h
Average illumination (1 m <sup>2</sup> area at a distance of 1 m)	1089 lx	347 lx
Maximum illumination (distance of 1 m)	1391 lx	869 lx
Power consumption	42 W	13 W
Temperature range (operation)	0 °C ... +45 °C	0 °C ... +40 °C
Degree of protection	IP67	IP67/IPX9
Vibration (in acc. EN 60068-2-6)	4g in acc. with EN 60068-2-6	
Shock (in acc. with EN 60068-2-27)	50g in acc. with EN 60068-2-27	

### Mounting accessories for class 200 PLD machine lights, Ø 70 mm

	
<b>Type</b> Order No.	<b>PLD M-ME MC/D70</b> 2702493
Description	Two mounting holders for lights PLD M 260 .../D70, swivel range ±30°
	
<b>Type</b> Order No.	<b>PLD M-ME MB/D70</b> 2702494
Description	Two mounting brackets for lights PLD M 260 .../D70, swivel range ±65°

## Technical data for class 300 PLD machine lights

### Ambient conditions

Temperature range (operation)	-25 °C ... +60 °C
Relative humidity (operation)	95 %
Vibration	5g in acc. with EN 60068-2-6
Shock	25g in acc. with EN 60068-2-27
Continuous shock	10g in acc. with EN 60068-2-27
Degree of protection	IP67

### Light properties

Color temperature	5,000 K
Color rendering index (Ra)	≥ 80

### Electromagnetic compatibility

Noise emission	Class B in acc. with EN 61000-6-3
Noise immunity	In accordance with EN 61000-6-2

### Supply voltage

Nominal voltage	24 V DC
Permissible range	19.2 V DC ... 28.8 V DC

### Service life

LED service life (L70)	65,000 h
------------------------	----------

## Product overview for class 300 PLD machine lights

			
<b>Type</b>	<b>PLD M 360 W-50 200</b>	<b>PLD M 360 W-50 365</b>	<b>PLD M 360 W-50 695</b>
Order No.	2701689	2701690	2701691
Dimensions L x W x H	200 mm x 60 mm x 35 mm	365 mm x 60 mm x 35 mm	695 mm x 60 mm x 35 mm
Emission angle	50°	50°	50°
Average illumination (1 m² area at a distance of 1 m)	250 lx	490 lx	905 lx
Maximum illumination (distance of 1 m)	535 lx	1005 lx	1755 lx
Power consumption	5.5 W	11 W	22 W
<b>Type</b>	<b>PLD M 360 W-100 200</b>	<b>PLD M 360 W-100 365</b>	<b>PLD M 360 W-100 695</b>
Order No.	2701692	2701693	2701694
Dimensions L x W x H	200 mm x 60 mm x 35 mm	365 mm x 60 mm x 35 mm	695 mm x 60 mm x 35 mm
Emission angle	100°	100°	100°
Average illumination (1 m² area at a distance of 1 m)	150 lx	310 lx	585 lx
Maximum illumination (distance of 1 m)	220 lx	450 lx	830 lx
Power consumption	9 W	18 W	36 W

## Mounting accessories for class 300 PLD machine lights

				
<b>Type</b>	<b>PLD M-ME MB/90</b>	<b>PLD M-ME MB</b>	<b>PLD M-ME AP</b>	<b>PLD M-ME MP</b>
Order No.	2701878	2701879	2701880	2701881
Description	Mounting bracket for lights PLD M 360 ..., permanent 90° angle	Swivel mounting bracket for lights PLD M 360 ..., adjustable angle: 0 ... 180°	Adapter plate for lights PLD M 360 ... for mounting on narrow machine parts	Mounting plate for lights PLD M 360 ... (replacement part)

# PSD signal towers – Optimal detection of machine states

Reducing downtime and avoiding costs – this is the only way to ensure critical competitive advantages. A clear signaling of the machine or system state is an important prerequisite for this. The modular signal towers of the PSD product range (Phoenix Contact Signaling Devices) feature a wide range of visual and audible signals. If space is tight, then you can map up to seven different states with just one multi-colored element.

## Construction of a PSD signal tower – modular and flexible

Follow these steps to assemble your signal tower:

- ① Select the type of mounting appropriate for your use of the signal tower: surface or tube mounting.
- ② Where appropriate, select the mounting bracket and the junction box.
- ③ Where appropriate, select the foot and the tube with the desired length: 110 mm ... 1000 mm.
- ④ Select the connection element that corresponds to the mounting type: screw or spring-cage connection.
- ⑤ Select
  - (a) the required visual elements
  - (b) the audible element, where appropriate.



④



Order No. [2700093](#)  
**Connection element with screw connection**



Order No. [2700091](#)  
**Connection element with spring-cage connection**

②



Order No. [2700160](#)  
**Bracket for one-sided surface mounting**



Order No. [2700161](#)  
**Bracket for two-sided surface mounting**

①



Order No. [2700153](#)  
**Junction box with lateral cable entry**



Order No. [2700144](#)  
**Bracket for surface mounting**

**Surface mounting**



You can combine up to five visual signal elements or up to four visual elements and one audible signal element.

5a

**Visual signal elements**

- LED permanent light
  - LED blinking light
  - LED flashing light
  - LED random flashing light
  - LED rotating light
  - LED multi-color permanent light
- (for ordering information, see page 26)



**Audible signal elements**

- Siren, buzzer, voice output
- (for ordering information, see page 27)



5b



Order No. 2700095  
**Connection element with screw connection**



Order No. 2700092  
**Connection element with spring-cage connection**

4



Order No. 2700150  
**Adapter for single-hole mounting**



Order No. 2700156  
**Foot with integrated tube, 110 mm long**

- 250 mm Order No. 2700157
- 400 mm Order No. 2700158
- 1000 mm Order No. 2700154

**Tube, Ø 25 mm**



Order No. 2700152  
**Tube for direct mounting on the foldaway base**



Order No. 2700163  
**Foot for tube, Ø 25 mm, plastic**



Order No. 2700164  
**Foot for tube, Ø 25 mm, aluminum**



Order No. 2700151  
**Foldaway base, pitch 7.5°**

3



Order No. 2700153  
**Junction box with lateral cable entry**



Order No. 2700155  
**Junction box with magnetic base and lateral cable entry**



Order No. 2700149  
**Bracket for base mounting with concealed cable routing**




Order No. 2700143  
**Bracket for base mounting**

2

**Tube mounting**

1

## Technical data for PSD signal towers

General data		Visual elements	
Input voltage	24 V DC	Type of visual signal	LED permanent light
Ambient temperature	-20 °C ... +50 °C		LED blinking light
Degree of protection	IP65, when installed		LED flashing light (double flash)
Diameter	70 mm		LED random flashing light
Mounting position	Any		LED rotating light
Approvals			LED multi-color permanent light
Audible elements			
Type of audible signal	Siren, buzzer, voice output		
Volume	Max. 105 dB(A)		

### Visual signal elements

					
LED permanent light	<b>PSD-S OE LED RD</b> Order No. <a href="#">2700107</a> • 24 V AC/DC	<b>PSD-S OE LED YE</b> Order No. <a href="#">2700122</a> • 24 V AC/DC	<b>PSD-S OE LED GN</b> Order No. <a href="#">2700119</a> • 24 V AC/DC	<b>PSD-S OE LED CL</b> Order No. <a href="#">2700127</a> • 24 V AC/DC	<b>PSD-S OE LED BU</b> Order No. <a href="#">2700131</a> • 24 V AC/DC
LED blinking light	<b>PSD-S OE LED BL RD</b> Order No. <a href="#">2700114</a> • 24 V AC/DC	<b>PSD-S OE LED BL YE</b> Order No. <a href="#">2700123</a> • 24 V AC/DC	<b>PSD-S OE LED BL GN</b> Order No. <a href="#">2700121</a> • 24 V AC/DC	<b>PSD-S OE LED BL CL</b> Order No. <a href="#">2700128</a> • 24 V AC/DC	<b>PSD-S OE LED BL BU</b> Order No. <a href="#">2700132</a> • 24 V AC/DC
LED flashing light	<b>PSD-S OE LED FL RD</b> Order No. <a href="#">2700115</a> • Double flash • 24 V DC	<b>PSD-S OE LED FL YE</b> Order No. <a href="#">2700124</a> • Double flash • 24 V DC		<b>PSD-S OE LED FL CL</b> Order No. <a href="#">2700129</a> • Double flash • 24 V DC	<b>PSD-S OE LED FL BU</b> Order No. <a href="#">2700134</a> • Double flash • 24 V DC
LED random flashing light	<b>PSD-S OE LED RFL RD</b> Order No. <a href="#">2700118</a> • 24 V DC	<b>PSD-S OE LED RFL YE</b> Order No. <a href="#">2700126</a> • 24 V DC		<b>PSD-S OE LED RFL CL</b> Order No. <a href="#">2700130</a> • 24 V DC	<b>PSD-S OE LED RFL BU</b> Order No. <a href="#">2700135</a> • 24 V DC
LED rotating light	<b>PSD-S OE LED RL RD</b> Order No. <a href="#">2700116</a> • 24 V AC/DC	<b>PSD-S OE LED RL YE</b> Order No. <a href="#">2700125</a> • 24 V AC/DC			
LED multi-color permanent light				<b>PSD-S OE LED MC</b> Order No. <a href="#">2702090</a> • 24 V DC • 7 colors	

## Audible signal elements

					
<b>PSD-S AE SC1-2 105DB</b>	<b>PSD-S AE BM2-1 85DB</b>	<b>PSD-S AE SP1-3 100DB/2</b>	<b>PSD-S AE SM8-5 100DB/1</b>	<b>PSD-S AE SM7-4 100DB/3</b>	<b>PSD-S AE V15/1</b>
Order No. <a href="#">2700139</a> <b>Siren</b> • Alternating continuous tone • Max. 105 dB(A) • Degree of protection IP40 • 24 V DC	Order No. <a href="#">2700136</a> <b>Buzzer</b> • Continuous/pulse tone • Max. 85 dB(A) • 24 V AC/DC	Order No. <a href="#">2700137</a> <b>Siren</b> • Pulse tone • Automatic volume control • Max. 100 dB(A) • 24 V DC	Order No. <a href="#">2700138</a> <b>Siren</b> • 8 tones • Max. 100 dB(A) • Tones can be selected via DIP switch • 24 V AC/DC	Order No. <a href="#">2700141</a> <b>Siren</b> • 7 tones • Max. 100 dB(A) • Tone selection via 3 signal lines • 24 V DC	Order No. <a href="#">2700140</a> <b>Voice output</b> • Up to 15 sound sequences • Max. play time of 60 minutes • 24 V DC




## Connection and mounting elements for surface mounting

<b>PSD-S ME OB</b>	<b>PSD-S ME BR-SM</b>	<b>PSD-S ME BR-SM/1S</b>	<b>PSD-S ME BR-SM/2S</b>	<b>PSD-S CE-SM SPRING</b>	<b>PSD-S CE-SM SCREW</b>
Order No. <a href="#">2700153</a> <b>Junction box with lateral cable entry</b>	Order No. <a href="#">2700144</a> <b>Bracket for surface mounting</b>	Order No. <a href="#">2700160</a> <b>Bracket for one-sided surface mounting</b>	Order No. <a href="#">2700161</a> <b>Bracket for two-sided surface mounting</b>	Order No. <a href="#">2700091</a> <b>Connection element</b> • Spring-cage connection	Order No. <a href="#">2700093</a> <b>Connection element</b> • Screw connection

## Connection and mounting elements for tube mounting

<b>PSD-S ME OB</b>	<b>PSD-S ME OB/MB</b>	<b>PSD-S ME BR-BM/HCR</b>	<b>PSD-S ME BR-BM</b>	<b>PSD-S ME A-SH M18</b>
Order No. <a href="#">2700153</a> <b>Junction box with lateral cable entry</b>	Order No. <a href="#">2700155</a> <b>Junction box with magnetic base and lateral cable entry</b>	Order No. <a href="#">2700149</a> <b>Bracket for base mounting with concealed cable routing</b>	Order No. <a href="#">2700143</a> <b>Bracket for base mounting</b>	Order No. <a href="#">2700150</a> <b>Adapter for single-hole mounting</b>
<b>PSD-S ME FB</b>	<b>PSD-S ME T-P 45</b>	<b>PSD-S ME BT 110</b>	<b>PSD-S ME B-P</b>	<b>PSD-S ME B-M</b>
Order No. <a href="#">2700151</a> <b>Foldaway base</b>	Order No. <a href="#">2700152</a> <b>Tube for direct mounting on foldaway base</b>	Order No. <a href="#">2700156</a> <b>Foot with integrated tube</b> • 110 mm long	Order No. <a href="#">2700163</a> <b>Foot for tube</b> • Plastic	Order No. <a href="#">2700164</a> <b>Foot for tube</b> • Metal
<b>PSD-S ME T-M 250</b>	<b>PSD-S ME T-M 400</b>	<b>PSD-S ME T-M 1000</b>	<b>PSD-S CE-TM SPRING</b>	<b>PSD-S CE-TM SCREW</b>
Order No. <a href="#">2700157</a> <b>Tube</b> • 250 mm long	Order No. <a href="#">2700158</a> <b>Tube</b> • 400 mm long	Order No. <a href="#">2700154</a> <b>Tube</b> • 1000 mm long	Order No. <a href="#">2700092</a> <b>Connection element</b> • Spring-cage connection	Order No. <a href="#">2700095</a> <b>Connection element</b> • Screw connection

## Accessories

		
<b>PSD-S AS CABLE GLAND M16X1.5</b>	<b>PSD-S AS LABEL BOARD</b>	<b>PSD-S AS END COVER</b>
Order No. <a href="#">2700145</a> <b>Cable gland</b> • M16 x 1.5 mm	Order No. <a href="#">2700147</a> <b>Labeling board for tube mounting</b> • Complete with mounting material	Order No. <a href="#">2700148</a> <b>End cover (replacement part)</b>



Always up-to-date, always available to you. Here you'll find everything on our products, solutions and service:

[phoenixcontact.com](http://phoenixcontact.com)

## Product range

- Cables and wires
- Connectors
- Controllers
- Electronics housings
- Electronic switchgear and motor control
- Fieldbus components and systems
- Functional safety
- HMIs and industrial PCs
- I/O systems
- Industrial communication technology
- Industrial Ethernet
- Installation and mounting material
- Lighting and signaling
- Marking and labeling
- Measurement and control technology
- Monitoring
- PCB terminal blocks and PCB connectors
- Power supply units and UPS
- Protective devices
- Relay modules
- Sensor/actuator cabling
- Software
- Surge protection and interference filters
- System cabling for controllers
- Terminal blocks
- Tools
- Wireless data communication

PHOENIX CONTACT GmbH & Co. KG  
Flachsmarktstraße 8  
32825 Blomberg, Germany  
Phone: + 49 5235 3-00  
Fax: + 49 5235 3-41200  
E-mail: [info@phoenixcontact.com](mailto:info@phoenixcontact.com)  
[phoenixcontact.com](http://phoenixcontact.com)



INSPIRING INNOVATIONS