



# Lighting and signaling

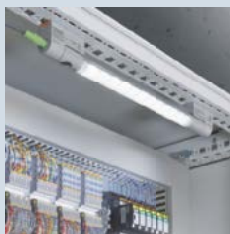
More than just light

# In dialog with customers and partners worldwide

Phoenix Contact is a globally present, Germany-based market leader. Our group is synonym for future-oriented components, systems, and solutions in the fields of electrical engineering, electronics, and automation. A global network across more than 100 countries, and 15,000 employees ensure a proximity to our customers, which we believe is particularly important.

The wide variety of our innovative products makes it easy for our customers to find future-oriented solutions for different applications and industries. We especially focus on the fields of energy, infrastructure, process and factory automation.





### Light in the control cabinet

Optimal lighting with quick installation. LED technology for control cabinets and control boxes.



### Light in the machine

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



### Light on the machine

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

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## Additional lighting and signaling solutions from Phoenix Contact



Benefit from a complete system for tower lighting of wind turbine generators, from the uninterrupted power supply to LED lights.



With LED signal lights and control technology from Phoenix Contact, you can design reliable and energy-efficient signaling systems for maritime use, e.g. 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 individual adjustment and intelligent control of lighting. Phoenix Contact offers different light distributor cabinets which are fully assembled and easy to operate.

# PLD enclosure lights – Optimal lighting with quick installation

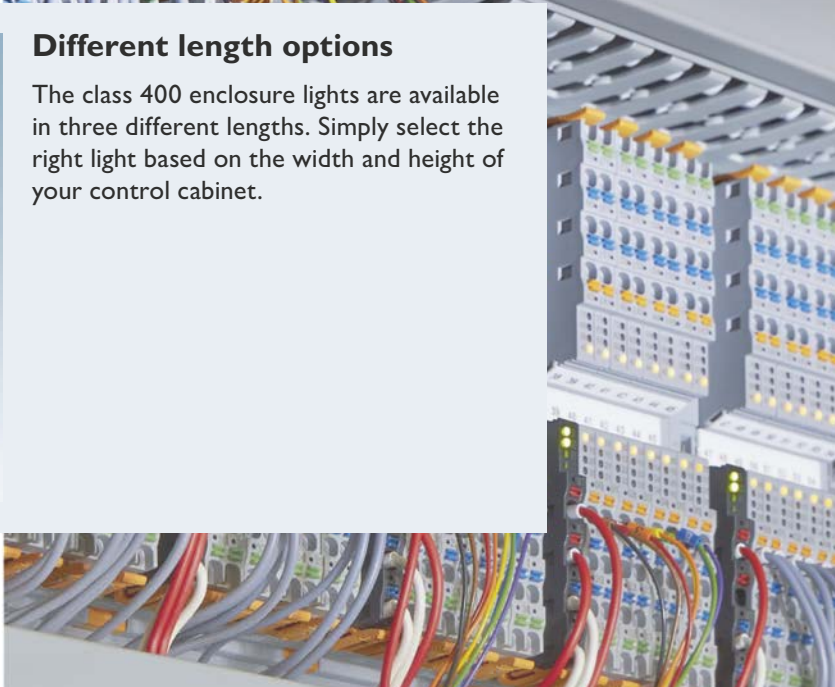
PLD enclosure lights (Phoenix Contact Lighting Devices) provide optimal lighting for your control cabinet, even at the very bottom of the cabinet. They are easy to install and no tools are needed. Choose the lights tailored to your needs from two performance classes and a particularly flexible product range.

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





## Installation

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

## Prismatics

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 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 lighting 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 lighting with quick installation

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 mounting options, you can also quickly and flexibly install the class 600 LED lights in your control cabinet.



## Variants

You can obtain the class 600 enclosure lights from 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 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 for a de-energized control cabinet
- An LED service life of at least 50,000 hours prevents maintenance costs incurred through lighting 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	Electromagnetic compatibility	
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	Supply voltage	
Service life		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

			
Type	<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

Type	<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 cable with free cable end, 0.6 m cable with M8 socket, incl. mounting material	Door position switch set: 1 m cable with M8 socket, 0.6 m cable with M8 socket, incl. mounting material
Type	<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>
Type	<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)
Type	<b>PLD E 400-PS/1AC/24DC/12W</b>	<b>PLD E 400-PS/1AC/24DC/30W</b>	
Order No.	2702435	2702436	
Description	12 W power supply unit with various country-specific plug adapters	30 W power supply unit with various 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
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### Light properties

Luminous flux	685 lm (net luminous flux)
Color temperature	4,000 K
Color rendering index (R <sub>a</sub> )	≥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 detector	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	Connector 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. Select the right LED light for your application from three performance classes.

The class 100 lights stand out due to the very narrow design. This means they can be ideally integrated into the machine, even when 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 included 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 in wet environments
- 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 extremely efficiently and without taking up too much space.



### Numerous variants

The highly efficient class 200 lights come with a 40 mm diameter with two different beam angles (40° and 85°), each available in four lengths (190 mm to 715 mm).

Mounting and wiring is easy with the M12 connector and the option of series connection.

You can therefore select the right lights for your machine's size or achieve the illumination levels you need for your application.



## Cabling

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

## Illumination

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

## Additional advantages

- Space-saving, thanks to small diameter
- 4 mm safety glass allows these lights to also be used in environments with potential mechanical strain
- Resistant to many cooling agents and lubricants thanks to Viton<sup>®</sup> 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 mounting versions (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 pre-installed tube 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**

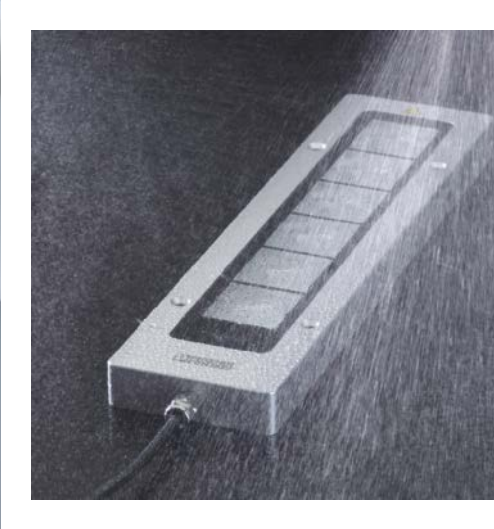
Low-glare lighting thanks to larger light emission window

### **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 strain
- 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 mounting versions (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.

## Technical data for class 100 PLD machine lights

### Ambient conditions

Temperature range (operation)	0°C ... +40°C
Relative humidity (operation)	95%
Degree of protection	IP67
Resistant to cooling agents/lubricants	No

### Light properties

Color temperature	6,200 K
Color rendering index (Ra)	≥ 70
Emission angle (C0-180/C90-270)	95°/105°

### 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
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### Supply voltage

Nominal voltage	24 V DC
Permissible range	22 V DC ... 25 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
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	
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, Ø 40 mm

### Ambient conditions

Temperature range (operation)	0°C ... 50°C
Relative humidity (operation)	95%
Vibration	4g in acc. with EN 60068-2-6
Shock	50g in acc. with EN 60068-2-27
Degree of protection	IP67
Resistant to cooling agents/lubricants	Yes

### Light properties

Color temperature	5,000 K
Color rendering index (R <sub>a</sub> )	≥80
Emission angle (C0-180/C90-270)	85°/95°

### Electromagnetic compatibility

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

### Service life

LED service life (L70)	60,000 h
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### Supply voltage

Nominal voltage	24 V DC
Permissible range	20 V DC ... 28 V DC

## Class 200 with 85°/95° emission angle

				
<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
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
Series connection	No	No	No	No

				
<b>Type</b> Order No.	<b>PLD M 260 W-85/95 190/D40/SC</b> 2702933	<b>PLD M 260 W-85/95 365/D40/SC</b> 2702934	<b>PLD M 260 W-85/95 540/D40/SC</b> 2702935	<b>PLD M 260 W-85/95 715/D40/SC</b> 2702936
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
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
Series connection	Yes	Yes	Yes	Yes

## 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 MB/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, Ø 40 mm

### Ambient conditions

Temperature range (operation)	0°C ... 50°C
Relative humidity (operation)	95%
Vibration	4g in acc. with EN 60068-2-6
Shock	50g in acc. with EN 60068-2-27
Degree of protection	IP67
Resistant to cooling agents/lubricants	Yes

### Service life

LED service life (L70)	60,000 h
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### Light properties

Color temperature	5,000 K
Color rendering index (Ra)	≥80
Emission angle (C0-180/C90-270)	40°/80°

### 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
Permissible range	20 V DC ... 28 V DC

## Class 200 with 40°/80° emission angle

				
<b>Type</b> Order No.	<b>PLD M 260 W-40/80 190/D40</b> 2702938	<b>PLD M 260 W-40/80 365/D40</b> 2702939	<b>PLD M 260 W-40/80 540/D40</b> 2702940	<b>PLD M 260 W-40/80 715/D40</b> 2702941
Dimensions L x W x H	190 x 40 x 30 mm	365 x 40 x 30 mm	540 x 40 x 30 mm	715 x 40 x 30 mm
Average illumination (1 m² area at a distance of 1 m)	223 lx	487 lx	746 lx	1001 lx
Maximum illumination (distance of 1 m)	393 lx	846 lx	1270 lx	1692 lx
Power consumption	5 W	10 W	16 W	21 W
Series connection	No	No	No	No

## 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 MB/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, 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
Color temperature	5,000 K	5,000 K	5,000 K	5,000 K
Color rendering index (Ra)	≥ 85	≥ 85	≥ 85	≥ 85
Emission angle	75°/95°	75°/95°	75°/95°	75°/95°
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
Vibration	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	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
Degree of protection	IP67	IP67	IP67	IP67

		
<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
Color temperature	5,000 K	6,500 K
Color rendering index (Ra)	≥ 85	≥ 65
Emission angle	75°/95°	40°
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	4g in acc. with EN 60068-2-6	
Shock	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°

# PSD signal towers – Optimal detection of machine states

Reducing downtimes and thus costs is the only way to ensure a competitive advantage. 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) are characterized by 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: base 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 optical signal elements or up to four optical and one audible signal element.

5a

**Optical 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 22)



**Audible signal elements**

- Siren, buzzer, voice output
- (for ordering information, see page 23)



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 optical 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 panel for tube mounting</b> • Complete with mounting material	Order No. <a href="#">2700148</a> <b>End cover (replacement part)</b>



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PHOENIX CONTACT GmbH & Co. KG  
Flachsmarktstraße 8  
32825 Blomberg, Germany  
Phone: +49 52 35 3-00  
Fax: +49 52 35 3-4 12 00  
E-mail: [info@phoenixcontact.com](mailto:info@phoenixcontact.com)  
[phoenixcontact.com](http://phoenixcontact.com)