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LED signal light, 3 colors, 24 V DC, point design



Product description

The signal light is intended for signaling functional states in machines and systems. The multi-colored LED signal light has a robust, UV-resistant housing with an M22 thread for mounting. The device is connected via a 5-pos. M12 connector and can be controlled with positive or negative switching. Numerous signaling functions and high color rendering index ensure smart and clear signaling. The signal light is equipped with active temperature management to extend the LED service life.

Your advantages

- Function-oriented signaling
- Large signaling range
- Clear identification of system states
- Quick and easy mounting and installation
- Electronically and mechanically robust design

Commercial data

|                                      |               |
|--------------------------------------|---------------|
| Item number                          | 1691142       |
| Packing unit                         | 1 pc          |
| Minimum order quantity               | 1 pc          |
| Sales key                            | DR07          |
| Product key                          | DRL112        |
| GTIN                                 | 4067923252936 |
| Weight per piece (including packing) | 64.6 g        |
| Weight per piece (excluding packing) | 48 g          |
| Customs tariff number                | 85318070      |
| Country of origin                    | AT            |

# PSD-SL GN/AM/RD-P - Optical signaling device



1691142

<https://www.phoenixcontact.com/us/products/1691142>

## Technical data

### Product properties

|                |                  |
|----------------|------------------|
| Product type   | Signaling device |
| Product family | PSD-SL           |

### Electrical properties

|                   |             |
|-------------------|-------------|
| Switch-on time    | < 10 ms     |
| Power consumption | max. 1.45 W |

### Supply

|                      |                     |
|----------------------|---------------------|
| Supply voltage (DC)  | 24 V DC             |
| Supply voltage range | 18 V DC ... 30 V DC |
| Pulse current        | max. 185 mA         |
| Leakage current      | 1 mA                |
| Inrush current       | 0.5 A               |

### Output data

|                 |      |
|-----------------|------|
| Leakage current | 1 mA |
|-----------------|------|

### Connection data

|                   |                       |
|-------------------|-----------------------|
| Connection method | M12 connector, 5-pos. |
|-------------------|-----------------------|

### Signaling

|                        |                 |
|------------------------|-----------------|
| Signal element type    | optical         |
| Type of optical signal | Permanent light |
|                        | Blinking light  |
|                        | Color change    |
|                        | Triple flash    |

### Light properties

|                                  |               |
|----------------------------------|---------------|
| Source of light type             | LED           |
| Service life, lighting appliance | 60000 h       |
| Luminous intensity               | 21 Cd (green) |
|                                  | 18 Cd (amber) |
|                                  | 6.4 Cd (red)  |

### Dimensions

#### Item dimensions

|          |       |
|----------|-------|
| Height   | 65 mm |
| Diameter | 50 mm |

#### Calotte

|        |       |
|--------|-------|
| Height | 34 mm |
|--------|-------|

## Material specifications

|                 |                               |
|-----------------|-------------------------------|
| Color (Housing) | black (RAL 9005)              |
| Color (Calotte) | Transparent white             |
| Material        | Polycarbonate (UV stabilized) |

## Mechanical tests

|                                                                    |                                                                                       |
|--------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| Vibration resistance in accordance with EN 60068-2-6/IEC 60068-2-6 | : 0.4 g ... 12 g, 10 Hz ... 55 Hz, amplitude 1.0 mm, sweep 5 min., dwell time 30 min. |
| Vibration resistance in accordance with MIL-STD-202F               | : 10g                                                                                 |
| Shock in accordance with EN 60068-2-27/IEC 60068-2-27              | : 30g, 11 ms period, half-sine shock pulse                                            |

## Environmental and real-life conditions

### Ambient conditions

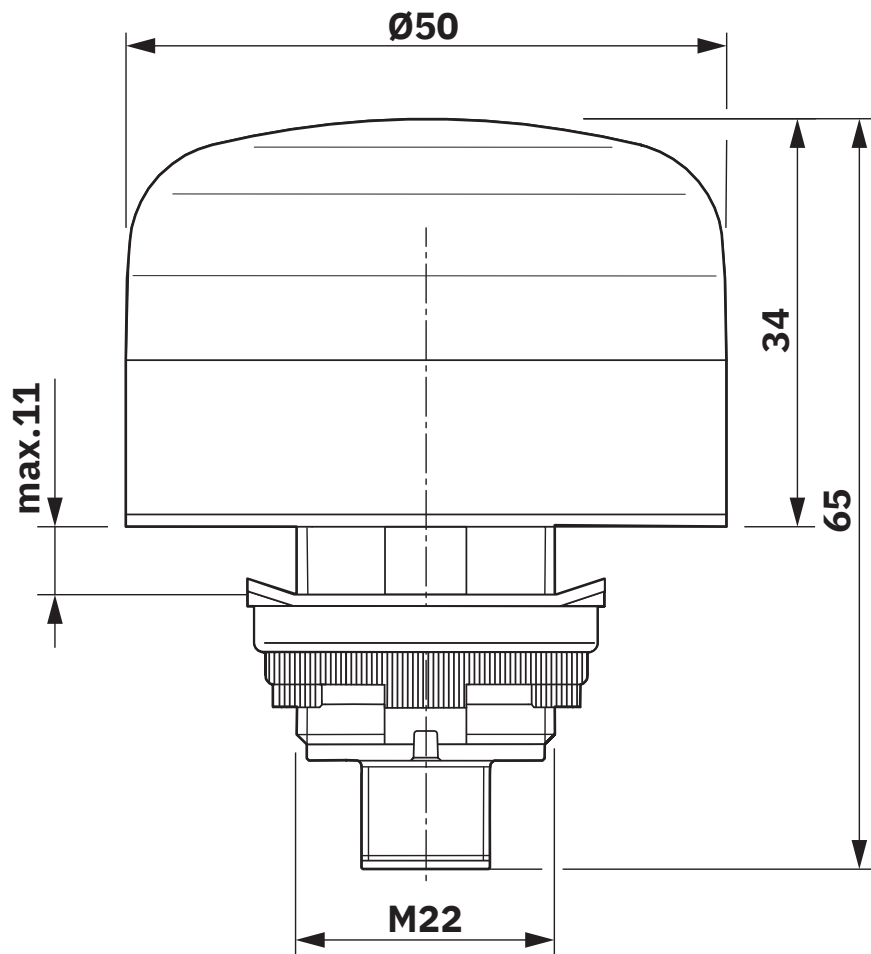
|                                 |                                       |
|---------------------------------|---------------------------------------|
| Degree of protection (IP)       | IP66                                  |
|                                 | IP67                                  |
|                                 | IP69                                  |
|                                 | IP6K9K (In accordance with ISO 20653) |
| Degree of protection (IK)       | IK08 (Impact resistance level)        |
| Degree of protection (UL type)  | UL Type 4                             |
|                                 | UL Type 4X                            |
| Ambient temperature (operation) | -40 °C ... 70 °C                      |

## Mounting

|                   |                                   |
|-------------------|-----------------------------------|
| Mounting type     | Single-hole mounting (M22 thread) |
| Mounting position | any                               |

## Drawings

Dimensional drawing



Dimensions (in mm)

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## Approvals

 To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1691142>



**cULus Listed**

Approval ID: E140324

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## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-13.0 | 27371220 |
| ECLASS-15.0 | 27371220 |

### ETIM

|           |          |
|-----------|----------|
| ETIM 10.0 | EC000232 |
|-----------|----------|

### UNSPSC

|             |          |
|-------------|----------|
| UNSPSC 21.0 | 46171600 |
|-------------|----------|

## Environmental product compliance

### EU RoHS

|                                         |      |
|-----------------------------------------|------|
| Fulfills EU RoHS substance requirements | Yes  |
| Exemption                               | 6(c) |

### China RoHS

|                                        |                                                                                                                                                                                                                                   |
|----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Environment friendly use period (EFUP) | EFUP-25                                                                                                                                                                                                                           |
|                                        | An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required. |

### EU REACH SVHC

|                                     |                      |
|-------------------------------------|----------------------|
| REACH candidate substance (CAS No.) | Lead(CAS: 7439-92-1) |
|-------------------------------------|----------------------|