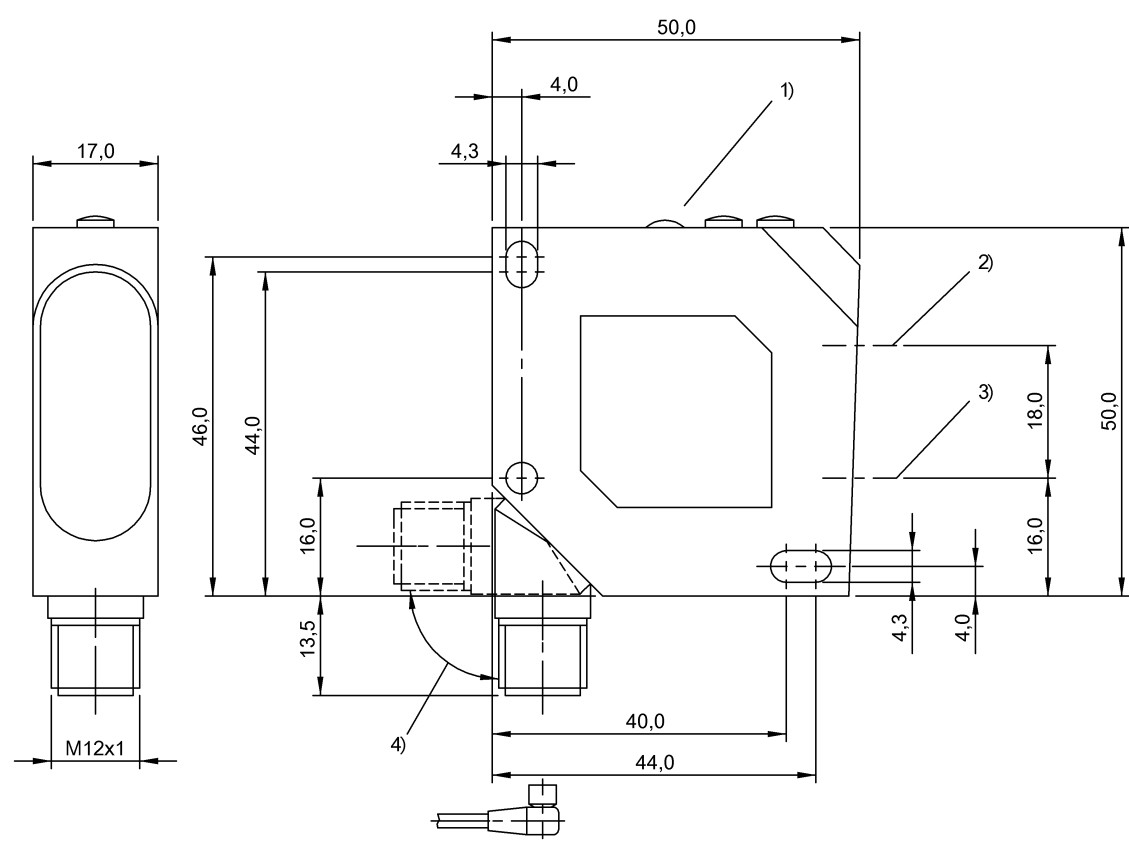
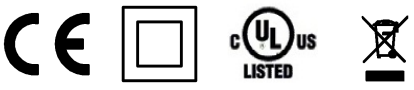


Photoelectric Sensors  
BOS 26K-PS-1LHC-S4-C  
Order Code: BOS008R



1) Display and control panel, 2) Optical axis receiver, 3) Optical axis emitter, 4) rotatable 270°



Basic features

|                        |                                     |
|------------------------|-------------------------------------|
| Approval/Conformity    | cULus<br>CE<br>WEEE                 |
| Basic standard         | IEC 60947-5-2                       |
| Principle of operation | Photoelectric sensor                |
| Series                 | 26K                                 |
| Style                  | Square<br>Connection can be rotated |

Display/Operation

|          |                                                                                                         |
|----------|---------------------------------------------------------------------------------------------------------|
| Adjuster | 2-turn potentiometer                                                                                    |
| Display  | Output function- LED yellow<br>Error - LED red<br>Switching dist. - dig. disp.<br>Stability - LED green |
| Setting  | Rated switching distance (Sn)                                                                           |

Electrical connection

|                             |                              |
|-----------------------------|------------------------------|
| Connection                  | Connector, M12x1-Male, 4-pin |
| Polarity reversal protected | yes                          |
| Short-circuit protection    | yes                          |

Electrical data

|                                     |             |
|-------------------------------------|-------------|
| No-load current $I_o$ max. at $U_e$ | 50 mA       |
| Operating voltage $U_b$             | 10...30 VDC |
| Protection class                    | II          |
| Rated insulation voltage $U_i$      | 75 V DC     |
| Rated operating current $I_e$       | 200 mA      |
| Rated operating voltage $U_e$ DC    | 24 V        |
| Ripple max. (% of $U_e$ )           | 10 %        |
| Switching frequency                 | 2500 Hz     |
| Turn-off delay $t_{off}$ max.       | 0.2 ms      |
| Turn-on delay $t_{on}$ max.         | 0.2 ms      |
| Utilization category                | DC -13      |
| Voltage drop $U_d$ max. at $I_e$    | 2.4 V       |

Photoelectric Sensors  
**BOS 26K-PS-1LHC-S4-C**  
Order Code: BOS008R

**BALLUFF**

Environmental conditions

|                         |                                            |
|-------------------------|--------------------------------------------|
| Ambient temperature     | -20...45 °C                                |
| EN 60068-2-27, Shock    | Half-sinus, 30 g <sub>n</sub> , 11 ms, 3x6 |
| EN 60068-2-6, Vibration | 10...55 Hz, amplitude 0.5 mm, 3x30 min     |
| IP rating               | IP67                                       |

Functional safety

|              |     |
|--------------|-----|
| MTTF (40 °C) | 9 a |
|--------------|-----|

Interface

|                                       |                                 |
|---------------------------------------|---------------------------------|
| Supplementary output                  | Error output PNP                |
| Switch function, supplementary output | Normally closed (NC)            |
| Switching output                      | 2x PNP normally open (NO) Pin 4 |

Material

|                          |      |
|--------------------------|------|
| Housing material         | ABS  |
| Material sensing surface | PMMA |

Mechanical data

|               |                 |
|---------------|-----------------|
| Dimension     | 17 x 50 x 50 mm |
| Mounting part | Screw M4        |

Optical features

|                                |                               |
|--------------------------------|-------------------------------|
| Ambient light max.             | 5000 Lux                      |
| Average power Po max.          | 1 mW                          |
| Laser class per IEC 60825-1    | 2                             |
| Light type                     | Laser red light               |
| Principle of optical operation | Diffuse sensor, triangulation |
| Pulse duration t max.          | 10.0 µs                       |
| Pulse frequency                | 14 kHz                        |
| Pulse power Pp max.            | 4.8 mW                        |
| Special optical feature        | Background suppression        |
| Switching function, optical    | Light-on                      |
| Wave length                    | 670 nm                        |

Range/Distance

|                                        |                   |
|----------------------------------------|-------------------|
| Distance deviation 18 % max. (% of Sr) | 5 % on 90 % rem.  |
| Range                                  | 50...300 mm       |
| Rated operating distance Sn            | 300 mm Adjustable |

Remarks

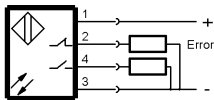
Order accessories separately.  
For additional information, refer to user's guide.  
The sensor is functional again after the overload has been eliminated.  
Reference object (target): gray card, 200 x 200, 90 % remission, axial approach.  
Only for applications per NFPA 79 (machines with a supply voltage of maximum 600 V). Use an R/C (CYJV2) cable with suitable properties for attaching the device.  
For more information about MTTF and B10d see MTTF / B10d Certificate

Indication of the MTTF- / B10d value does not represent a binding composition and/or life expectancy assurance; these are simply experiential values with no warranty implications. These declared values also do not extend the expiration period for defect claims or affect it in any way.

Connector Drawings



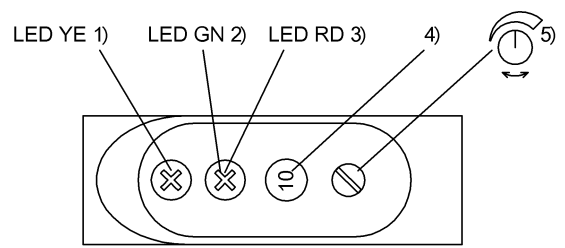
Wiring Diagrams



Photoelectric Sensors  
BOS 26K-PS-1LHC-S4-C  
Order Code: BOS008R

**BALLUFF**

Help Views

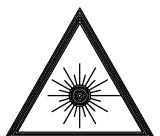


- 1) Output function
- 2) Stability
- 3) Error
- 4) Switching dist. dig. displ.
- 5) Sensitivity

Opto Symbols



Warning Symbols



LASER BEAM - DO NOT STARE INTO THE LIGHT BEAM!

LASER CLASS 2 per IEC60825-1: 2003-10