

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



Basic features

| | |
|-------------------------------|-------------------------------------|
| Application | Distance measurement |
| Approval/Conformity | CE cULus WEEE |
| Basic standard | IEC 60947-5-2, IEC 60947-5-7 |
| Principle of operation | Photoelectric distance sensor |
| Series | 26K |
| Style | Square Connection can be rotated |

Display/Operation

| | |
|-----------------|--|
| Adjuster | Key (2x) |
| Display | Output function- LED yellow Ready - LED green Setup mode - LED green, flashing Function activated - LED red Switching function NC - LED green Stability - LED green Factory setting active: LED green Additional function active: LED green |
| Setting | Switching distance, 2 values Working range Factory setting (Reset) Averaging mode off/4ms/40ms Light-on/dark-on |

Electrical connection

| | |
|------------------------------------|------------------------------|
| Connection | Connector, M12x1-Male, 5-pin |
| Polarity reversal protected | yes |
| Short-circuit protection | yes |

Photoelectric Sensors
BOD 26K-LB06-S92-C
Order Code: BOD0007

BALLUFF

Electrical data

| | |
|------------------------------------|-------------------------------|
| Input function | Key disable Emitter on/off |
| Load capacitance max. at Ue | 0.1 µF |
| Load resistance RL max. (Analog I) | 500 ohms |
| Mean life expectancy | 50,000 h, 40 °C |
| No-load current Io max. at Ue | 40 mA |
| Operating voltage Ub | 18...30 VDC |
| Protection class | II |
| Rated insulation voltage Ui | 50 V DC |
| Rated operating current Ie | 100 mA |
| Rated operating voltage Ue DC | 24 V |
| Ready delay tv max. | 300 ms |
| Switching frequency | 1000 Hz |
| Turn-off delay toff max. | 0.5 ms |
| Turn-on delay ton max. | 0.5 ms |

Environmental conditions

| | |
|---------------------|-------------|
| Ambient temperature | -10...60 °C |
| IP rating | IP67 |

Functional safety

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

Interface

| | |
|-----------------------|---|
| Analog output | Analog, current 4...20 mA |
| Output characteristic | linear rising/falling |
| Switching output | PNP normally open/normally closed (NO/NC) |

Remarks

Order accessories separately.

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 additional information, refer to user's guide.

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.

Material

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

Mechanical data

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

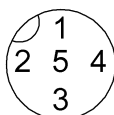
Optical features

| | |
|--------------------------------|-------------------------|
| Ambient light max. | 5000 Lux |
| Average power Po max. | 1 mW |
| Beam characteristic | Divergent |
| Laser class per IEC 60825-1 | 2 |
| Light spot size | 1.5 x 3.25 mm at 100 mm |
| Light type | Laser red light |
| Principle of optical operation | Triangulation |
| Switching function, optical | Light/dark switching |
| Wave length | 650 nm |

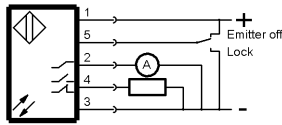
Range/Distance

| | |
|-----------------------------|-------------------------|
| Accuracy | ±0.25 % FS |
| Range | 30...100 mm, adjustable |
| Rated operating distance Sn | 100 mm Adjustable |
| Resolution | 0.1 %FS |

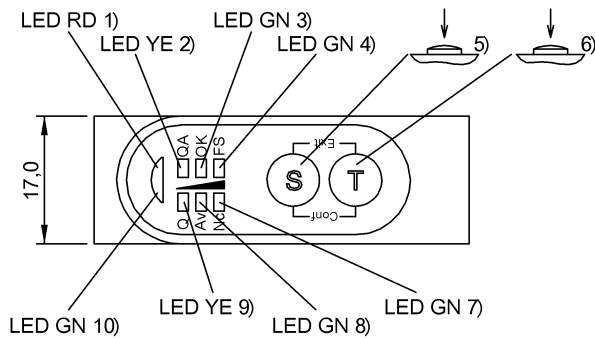
Connector Drawings



Wiring Diagrams



Help Views

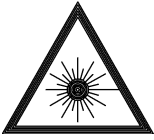


- 1) Function activated
- 2) Object in range
- 3) Stability
- 4) Factory default active
- 5) Confirm teach-in/selection
- 6) Function/mode select
- 7) Dark-on active
- 8) Average value mode active
- 9) Output function
- 10) Ready/Setup mode

Opto Symbols



Warning Symbols



LASER BEAM - DO NOT STARE INTO THE LIGHT BEAM!

LASER CLASS 2 per IEC60825-1: 2003-10