

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



## Basic features

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

## Display/Operation

<b>Adjuster</b>	Key (2x)
<b>Display</b>	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
<b>Setting</b>	Switching distance, 2 values Working range Factory setting (Reset) Averaging mode off/4ms/40ms Light-on/dark-on

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

**BALLUFF**

**Electrical connection**

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

**Electrical data**

Input function	Key disable Emitter on/off
Load capacitance max. at Ue	0.1 µF
Load resistance RL max. (Analog I)	500 Ohm
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
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**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	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

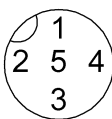
**Output/Interface**

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

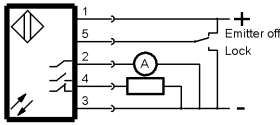
**Range/Distance**

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

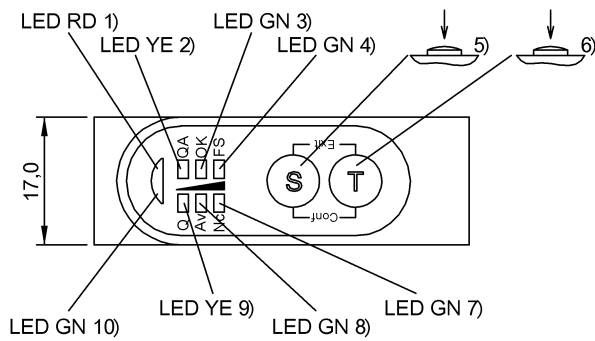
**Connector Drawings**



## Wiring Diagrams



## Help Views

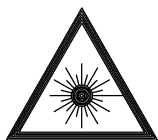


- 1) Function activated
- 2) Object in range
- 3) Stability
- 4) Factory default active
- 5) Confirm teach-in/selection
- 6) Function/mode select
- 7) Dark-on active
- 8) Average value mode active
- 9) Output function
- 10) Ready/Setup mode

## Opto Symbols



## Warning Symbols



LASER BEAM - DO NOT STARE INTO THE LIGHT BEAM!

LASER CLASS 2 per IEC60825-1: 2003-10