

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 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 Input function - LED green Setup mode - LED green, flashing Function selected - LED red Stability - LED green Time function active: LED green Additional function active: LED green

Photoelectric Sensors  
**BOD 26K-LBR04-S115-C**  
Order Code: BOD000C

**BALLUFF**

<b>Setting</b>	Key disable on/off Switching distance, 2 values Working range On-/off delay Characteristic curve mode off/0%/50% Analog value output mode Master/Slave for differential measurement Output/input for Q1 Switching-/Supplementary output for Q2 Averaging mode off/4ms/40ms Light-on/dark-on Input mode for Q1 Factory setting (Reset)
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### Electrical connection

<b>Connection</b>	Connector, M12x1-Male, 8-pin
<b>Polarity reversal protected</b>	yes
<b>Short-circuit protection</b>	yes

### Electrical data

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

### Environmental conditions

<b>Ambient temperature</b>	-10...60 °C
<b>IP rating</b>	IP67

### 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.

### Functional safety

<b>MTTF (40 °C)</b>	9 a
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### Interface

<b>Analog output</b>	Analog, current 4...20 mA
<b>Duration of time function</b>	50 ms
<b>Interface</b>	RS485
<b>Output characteristic</b>	linear rising/falling
<b>Switching output</b>	3x PNP normally open/normally closed (NO/NC)
<b>Time function</b>	switch-off delay

### Material

<b>Housing material</b>	ABS
<b>Material sensing surface</b>	PMMA

### Mechanical data

<b>Dimension</b>	17 x 50 x 50 mm
<b>Mounting part</b>	Screw M4

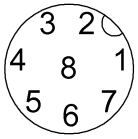
### Optical features

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

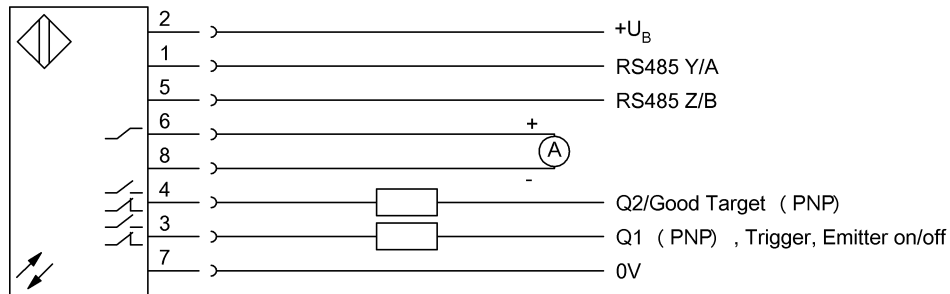
### Range/Distance

<b>Accuracy</b>	±0.25 % FS
<b>Range</b>	30...100 mm, adjustable
<b>Rated operating distance Sn</b>	100 mm Adjustable
<b>Repeat accuracy</b>	0.25 %FS
<b>Resolution</b>	0.1 %FS

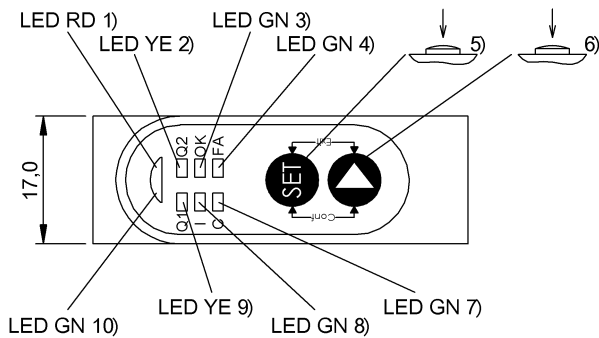
**Connector Drawings**



**Wiring Diagrams**



**Help Views**

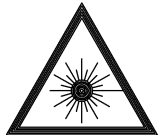


- 1) Function activated
- 2) Output function
- 3) Stability
- 4) Ancillary function active
- 5) Confirm teach-in/selection
- 6) Function/mode select
- 7) Master/Slave active
- 8) Input function active
- 9) Output/input function.
- 10) Ready/Setup mode

## Opto Symbols



## Warning Symbols



LASER BEAM - DO NOT STARE INTO THE LIGHT BEAM!

LASER CLASS 2 per IEC60825-1: 2003-10