

1) Display and control panel, 2) Optical axis receiver, 3) Optical axis emitter



## Basic features

<b>Application</b>	Distance measurement
<b>Approval/Conformity</b>	CE cULus WEEE
<b>Basic standard</b>	IEC 60947-5-2, IEC 60947-3
<b>Principle of operation</b>	Photoelectric distance sensor
<b>Series</b>	26K
<b>Style</b>	Square Connection 45°

## Display/Operation

Display LED green: Power  
Error - LED red

## Electrical connection

Cable diameter D	5.00 mm
Cable length L	6 m
Conductor cross-section	0.25 mm <sup>2</sup>
Connection	Cable, 6.00 m, PVC
Number of conductors	4
Polarity reversal protected	yes
Short-circuit protection	yes

## Electrical data

No-load current $I_{0\max}$ at $U_e$	35 mA
Operating voltage $U_b$	18...28 VDC
Protection class	II
Rated insulation voltage $U_i$	50 V DC
Rated operating voltage $U_e$ DC	24 V

## Environmental conditions

Ambient temperature	0...45 °C
IP rating	IP67

Functional safety

MTTF (40 °C) 265 a

Interface

Analog output Analog, voltage 0...10 V

Output characteristic linear increasing

Material

Housing material ABS

Material jacket PVC

Material sensing surface PMMA

Mechanical data

Dimension 17 x 50 x 50 mm

Mounting part Screw M4

Optical features

Ambient light max. 3000 Lux

Average power Po max. 1 mW

Beam characteristic Divergent

Laser class per IEC 60825-1 2

Light spot size Ø 0.8 mm at 65 mm

Light type Laser red light

Principle of optical operation Triangulation

Pulse duration t max. 8 µs

Pulse frequency 6 kHz

Pulse power Pp max. 2.0 mW

Wave length 670 nm

Range/Distance

Accuracy  $\pm 1\%$  FS

Range 45...85 mm

Resolution  $\leq 80\text{ }\mu\text{m}$

Remarks

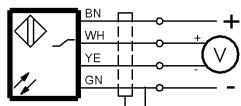
Order accessories separately.

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.

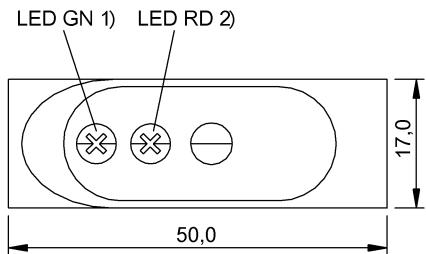
Wiring Diagrams



Photoelectric Sensors  
BOD 26K-LA01-C-06  
Order Code: BOD0001

**BALLUFF**

### Help Views

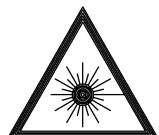


- 1) Operating voltage
- 2) Error

### Opto Symbols



### Warning Symbols



LASER BEAM - DO NOT STARE INTO THE LIGHT BEAM!

LASER CLASS 2 per IEC60825-1: 2003-10