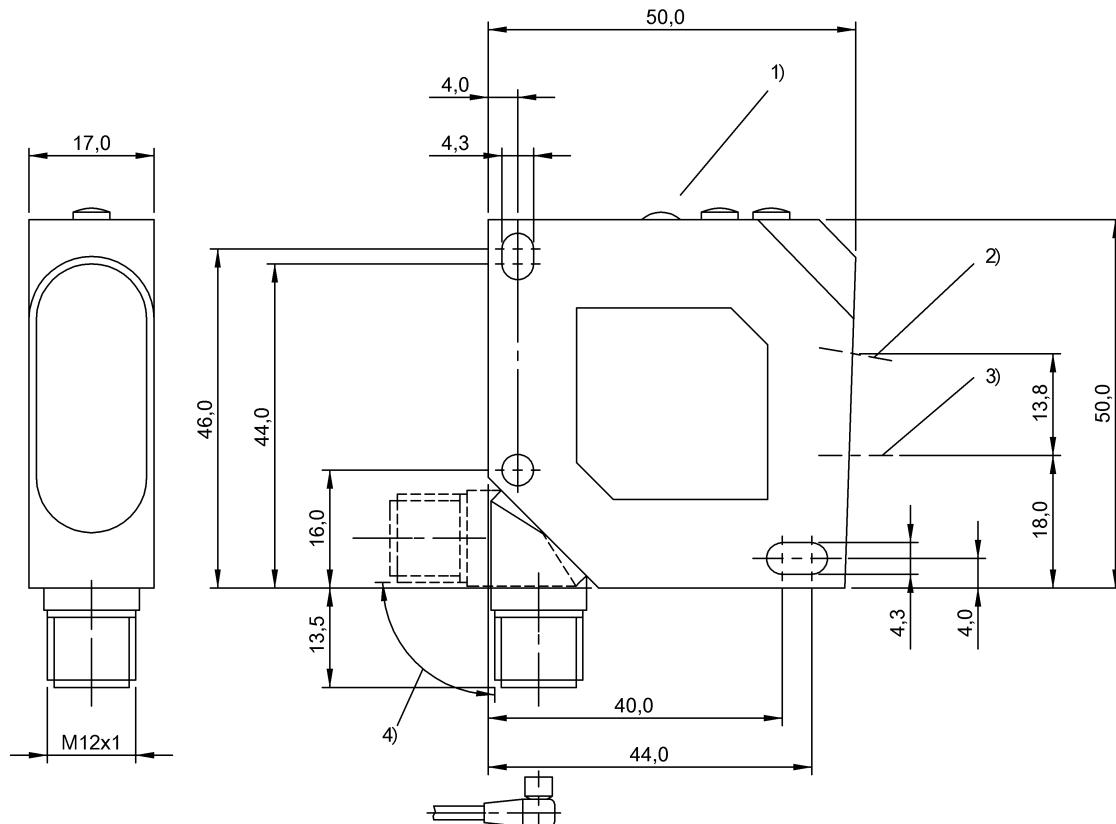


Photoelectric Sensors  
BOD 26K-LA02-S4-C  
Order Code: BOD0004

**BALLUFF**



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

Display	LED green: Power Error - LED red
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#### Electrical connection

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

#### Electrical data

No-load current $Io$ max. at $Ue$	35 mA
Operating voltage $Ub$	18...28 VDC
Protection class	II
Rated insulation voltage $Ui$	50 V DC
Rated operating voltage $Ue$ DC	24 V

#### Environmental conditions

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

#### Functional safety

MTTF (40 °C)	265 a
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#### Interface

Analog output	Analog, voltage 0...10 V
Output characteristic	linear increasing

#### 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.	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	±1 % FS
Range	45...85 mm
Resolution	≤ 20 µm

#### 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.

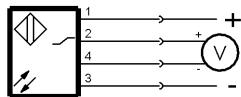
For more information about MTTF and B10d see MTTF / B10d Certificate

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.

#### Connector Drawings



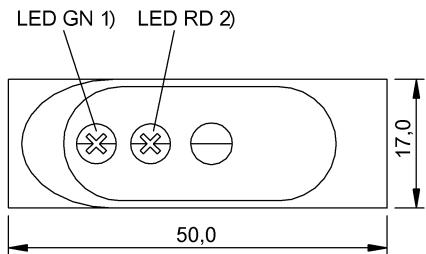
#### Wiring Diagrams



Photoelectric Sensors  
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**BALLUFF**

### Help Views

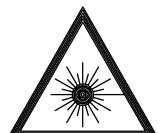


- 1) Operating voltage
- 2) Error

### Opto Symbols



### Warning Symbols



LASER BEAM - DO NOT STARE INTO THE LIGHT BEAM!

LASER CLASS 2 per IEC60825-1: 2003-10