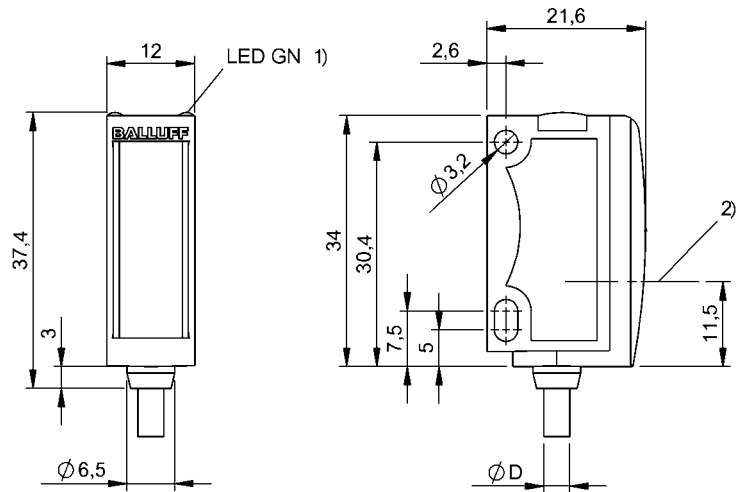


Photoelectric Sensors  
BOS 6K-XT-RS10-PU-03  
Order Code: BOS027J

**BALLUFF**



1) Operating voltage, 2) Optical axis



Basic features

Approval/Conformity	cULus CE Ecolab WEEE
Basic standard	IEC 60947-5-2
Principle of operation	Photoelectric sensor
Reference receiver	BOS 6K-...RE10-..
Series	6K
Style	Square Connection 90°

Display/Operation

Display	LED green: Power
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Electrical connection

Cable diameter D	3.50 mm
Cable length L	3 m
Conductor cross-section	0.14 mm <sup>2</sup>
Connection	Cable, 3 m, TPU
Number of conductors	3
Polarity reversal protected	yes
Protection against device mix-ups	yes

Electrical data

No-load current I <sub>o</sub> max. at U <sub>e</sub>	30 mA
Operating voltage U <sub>b</sub>	10...30 VDC
Protection class	II
Rated operating voltage U <sub>e</sub> DC	24 V
Ripple max. (% of U <sub>e</sub> )	12 %

Environmental conditions

Ambient temperature	-20...60 °C
EN 60068-2-27, Shock	Half-sinus, 30 g <sub>n</sub> , 11 ms, 3x6
EN 60068-2-6, Vibration	10...55 Hz, amplitude 0.5 mm, 3x30 min
IP rating	IP67
IP rating per DIN 40050	IP69K

Functional safety

MTTF (40 °C)	499 a
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Material

Housing material	ABS
Material jacket	TPU
Material sensing surface	PMMA

Mechanical data

Dimension	12 x 37.4 x 21.6 mm
Mounting part	Screw M3

Optical features

Beam characteristic	Divergent
Light spot size	1200 x 1200 mm at 15 m
Light type	LED, red light
Principle of optical operation	Through-beam sensor (Emitter)

Wave length 660 nm

Range/Distance

Range	0...13 m
Rated operating distance Sn	13 m Adjustable

Remarks

For additional information, refer to user's guide.

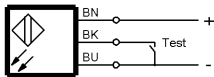
Order accessories separately.

When using as a UL product the ambient temperature Ta max. must not exceed 50°C.

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



Opto Symbols

