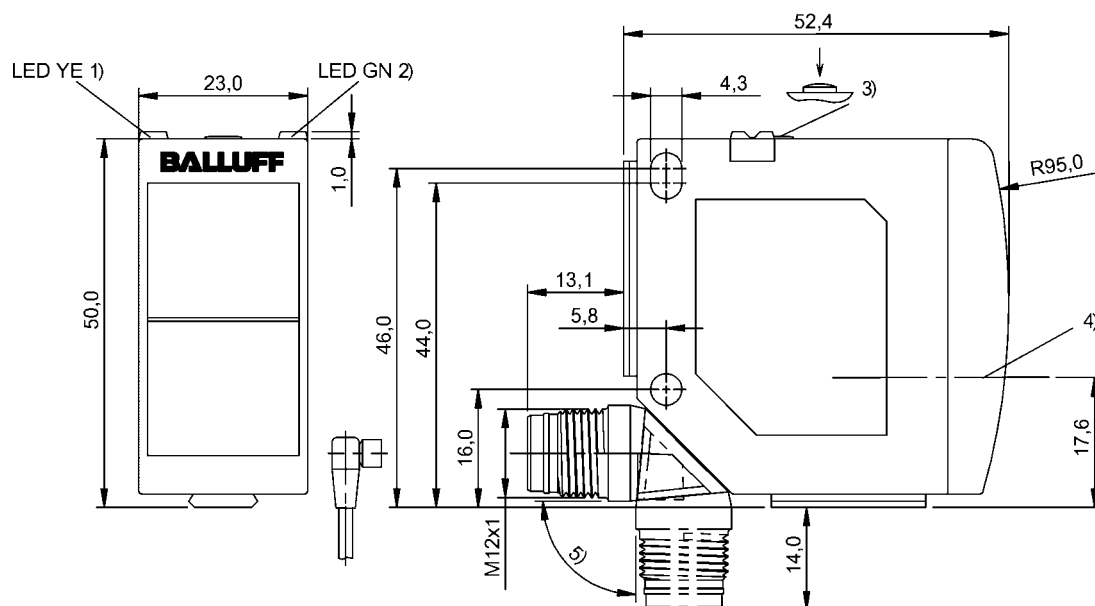


BOS 23K-XT-RS11-S4
Order Code: BOS016E

BALLUFF



1) Alignment mode active, 2) Power/alignment mode active, 3) Alignment mode on/off, 4) Optical axis, 5) rotatable 270°

**ECOLAB®**

Basic features

Approval/Conformity	CE Ecolab cULus WEEE
Basic standard	IEC 60947-5-2
Principle of operation	Photoelectric sensor
Reference receiver	BOS 23K-PU-RE10-S4
Series	23K
Style	Square Connection can be rotated

Display/Operation

Adjuster	button
Display	Setup mode - LED yellow+green, alt. LED green: Power
Setting	Alignment mode on/off

Electrical connection

Connection	Connector, M12x1-Male, 4-pin
Polarity reversal protected	yes
Protection against device mix-ups	yes

Electrical data

Input function	Test (Emitter off)
No-load current I_o max. at U_e	30 mA
Operating voltage U_b	10...30 VDC
Protection class	II
Rated insulation voltage U_i	75 V DC
Rated operating voltage U_e DC	24 V
Ripple max. (% of U_e)	10 %

Photoelectric Sensors
BOS 23K-XT-RS11-S4
Order Code: BOS016E



Environmental conditions

Ambient temperature	-20...60 °C
EN 60068-2-27, Shock	Half-sinus, 30 g _n , 11 ms, 3x6
EN 60068-2-6, Vibration	10...55 Hz, amplitude 0.5 mm, 3x30 min
IP rating	IP6x
IP rating per DIN 40050	IPx9K

Functional safety

MTTF (40 °C)	494 a
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Material

Housing material	PC ABS
Material sensing surface	PMMA

Mechanical data

Dimension	23 x 51 x 52.4 mm
Mounting part	Screw M4
Tightening torque max.	1.5 Nm

Optical features

Beam characteristic	Divergent
LED group per IEC 62471	Exempt Group
Light spot size	600 x 600 mm at 20 m
Light type	LED, red light
Principle of optical operation	Through-beam sensor (Emitter)
Wave length	640 nm

Range/Distance

Range	0...25 m
Rated operating distance Sn	25 m Adjustable

Remarks

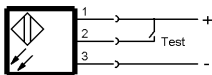
For additional information, refer to user's guide.
Order accessories separately.
Do not press key using a pointed tool.
For more information about MTTF and B10d see MTTF / B10d Certificate

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



Opto Symbols

