

1) Output function, 2) Operating voltage, 3) Sensitivity, light/dark, 4) Optical axis



Basic features

Approval/Conformity	CE UKCA cULus WEEE
Basic standard	IEC 60947-5-2
Principle of operation	Photoelectric sensor
Reference reflector	BOS R-22
Series	6K
Style	Square Connection 90°

Display/Operation

Adjuster	button
Display	Output function- LED yellow supply voltage - LED green
Setting	Teach mode Stand./Dyn. Sensitivity (Sn) Light-on/dark-on

Electrical connection

Cable diameter D	3.5 mm
Cable length L	2 m
Conductor cross-section	0.14 mm ²
Connection	Cable, 2 m, PVC
Number of conductors	4
Polarity reversal protected	yes
Short-circuit protection	yes

Electrical data

Input function	Key disable on/off Same function as button
No-load current I _{o max.} at U _e	30 mA
Operating voltage U _b	10...30 VDC
Protection class	II
Rated operating current I _e	100 mA
Rated operating voltage U _{e DC}	24 V
Switching frequency	1000 Hz
Turn-off delay t _{off max.}	0.5 ms
Turn-on delay t _{on max.}	0.5 ms
Voltage drop U _{d max.} at I _e	3.5 V

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	IP67, IP69
Storage temperature	-20...80 °C

Functional safety

MTTF (40 °C)	355 a
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Interface

Switching output	PNP/NPN/IO-Link NO/NC
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Material

Housing material	ABS
Material jacket	PVC
Material sensing surface	PMMA

Mechanical data

Dimension	12 x 34 x 21.6 mm
Mounting part	Screw M3

Optical features

Ambient light max.	5000 Lux
Beam characteristic	Divergent
Light spot size	40 x 40 mm at 1 m
Light type	LED, red light
Polarizing filter	yes
Principle of optical operation	Retroreflective sensor, Transparent detection
Special optical feature	Transparency detection
Switching function, optical	dark-on/light-on
Wave length	632 nm

Range/Distance

Range	0...2 m
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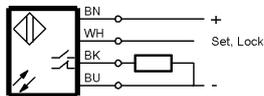
Remarks

The sensor is functional again after the overload has been eliminated.
 Order accessories separately.

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 (Schematic)



Opto Symbols

