

1) Optical axis, 2) Sn, 3) Output function, 4) stability



Basic features

Approval/Conformity	CE WEEE
Basic standard	IEC 60947-5-2
Principle of operation	Photoelectric sensor
Series	15K
Style	Square Connection 90°

Electrical connection

Cable diameter D	5.00 mm
Cable length L	2 m
Conductor cross-section	0.25 mm ²
Connection	Cable, 2.00 m, PVC
Number of conductors	5
Polarity reversal protected	yes
Short-circuit protection	yes

Display/Operation

Adjuster	Potentiometer 270°
Display	Output function - LED red Stability - LED green
Setting	Sensitivity (Sn)

Photoelectric Sensors
BOS 15K-R-A0.6-SA1
Order Code: BOS00F7

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Electrical data

Input function	Switching output PNP/NPN Light-on/dark-on
Load capacitance max. at Ue	0.5 µF
No-load current I_o max. at Ue	30 mA
Operating voltage U_b	10...30 VDC
Rated insulation voltage U_i	75 V DC
Rated operating current I_e	100 mA
Rated operating voltage U_e DC	24 V
Ripple max. (% of U_e)	8 %
Switching frequency	500 Hz
Turn-off delay t_{off} max.	1 ms
Turn-on delay t_{on} max.	1 ms
Utilization category	DC -13
Voltage drop U_d max. at I_e	1.5 V

Environmental conditions

Ambient temperature	-15...55 °C
EN 60068-2-27, Shock	Half-sinus, 30 g _n , 11 ms, 3x6
EN 60068-2-6, Vibration	10...55 Hz, amplitude 1.5 mm, 3x2 h
IP rating	IP66

Material

Housing material	ABS
Material jacket	PVC
Material sensing surface	PMMA

Mechanical data

Dimension	13 x 52 x 29 mm
Mounting part	Screw M3

Optical features

Ambient light max.	3000 Lux
Light type	Infrared
Polarizing filter	no
Principle of optical operation	Retroreflective sensor
Switching function, optical	dark-on/light-on
Wave length	880 nm

Output/Interface

Switching output	PNP/NPN normally open/normally closed (NO/NC)
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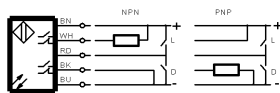
Range/Distance

Range	0...600 mm
Rated operating distance S_n	600 mm Adjustable

Remarks

Order accessories separately.
 For additional information, refer to user's guide.
 The sensor is functional again after the overload has been eliminated.
 Actuation object (target): gray card, 200 x 200, 90 % remission, lateral approach, approach direction vertical to lens axis plane.

Wiring Diagrams



Opto Symbols

