

1) Emitter, 2) Optical axis, 3) Receiver, 4) Sensitivity, 5) Output function, 6) stability, 7) Operating voltage



Basic features

Approval/Conformity	cULus CE UKCA WEEE
Basic standard	IEC 60947-5-2
Principle of operation	Photoelectric sensor
Series	5K
Style	Square Connection 45°

Display/Operation

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

Electrical connection

Cable diameter D	3.50 mm
Cable length L	0.2 m
Connection	Cable with connector, M12x1- Male, 4-pin, 0.20 m, PVC
Polarity reversal protected	yes
Short-circuit protection	yes

Electrical data

Operating voltage U_b	10...30 VDC
Rated operating current I_e	100 mA
Rated operating voltage U_e DC	24 V
Ready delay t_v max.	100 ms
Ripple max. (% of U_e)	10 %
Switching frequency	500 Hz
Turn-off delay t_{off} max.	1 ms
Turn-on delay t_{on} max.	1 ms
Voltage drop U_d max. at I_e	2 V

Photoelectric Sensors
BOS 5K-PS-IX10-00,2-S4
Order Code: BOS01UR



Environmental conditions

Ambient temperature	-25...55 °C
EN 60068-2-27, Shock	Half-sinus, 50 g _n , 11 ms, 3x10
EN 60068-2-6, Vibration	10...55 Hz, amplitude 0.75 mm, 3x20 min
IP rating	IP67

Interface

Switching output	PNP normally open (NO)
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Material

Housing material	PC
	PBT
Material jacket	PVC
Material sensing surface	PMMA

Mechanical data

Dimension	10.8 x 32.7 x 19.5 mm
Mounting part	Screw M3

Optical features

Ambient light max.	5000 Lux
Light type	Infrared
Principle of optical operation	Through-beam sensor
Switching function, optical	dark-on
Wave length	880 nm

Range/Distance

Range	0...20 m
Rated operating distance Sn	20 m Adjustable

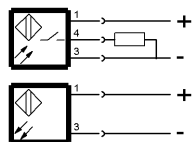
Remarks

Order accessories separately.
 Actuation object (target): gray card, 200 x 200, lateral approach.
 For additional information, refer to user's guide.

Connector Drawings



Wiring Diagrams



Opto Symbols

