

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



Basic features

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

Electrical data

Input function	Key disable on/off Same function as button
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
Ripple max. (% of U_e)	10 %
Switching frequency	4000 Hz
Turn-on delay t_{on} max.	0.125 ms
Voltage drop U_d max. at I_e	3.5 V

Display/Operation

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

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

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

Interface

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

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

Range/Distance

Range	0...4 m
Rated operating distance Sn	4 m, Adjustable

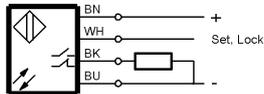
Optical features

Ambient light max.	5000 Lux
Average power Po max.	390 µW
Laser class per IEC 60825-1	1
Light spot size	4 x 2 mm at 2 m
Light type	Laser red light
Polarizing filter	yes
Principle of optical operation	Retroreflective sensor, Autocollimation
Pulse duration t max.	1 µs
Pulse frequency	18.2 kHz
Switching function, optical	dark-on/light-on
Wave length	650 nm

Remarks

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

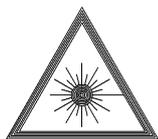
Wiring Diagrams (Schematic)



Opto Symbols



Warning Symbols



LASER CLASS 1 per IEC 60825-1