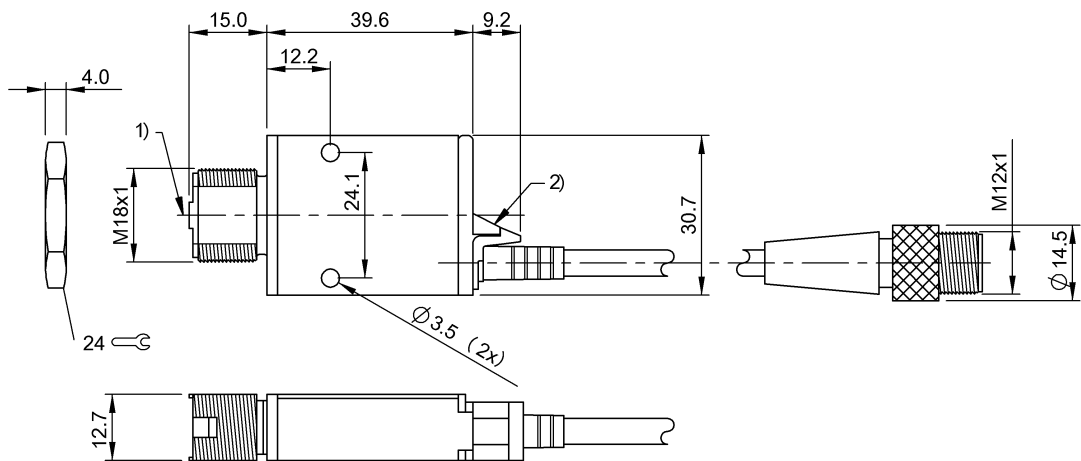


Photoelectric Sensors
BOS 16K-VU-1ZB-00.2-S4
Order Code: BOS00R5



1) Optical axis, 2) Removable cover



Basic features

Basic standard	IEC 60947-5-2
Principle of operation	Photoelectric sensor
Series	16K
Style	Square Straight connection

Electrical data

No-load current I_o max. at U_e	35 mA
Operating voltage U_b	11...30 VDC
Protection class	II
Rated insulation voltage U_i	300 V AC
Rated operating current I_e	100 mA
Rated operating voltage U_e DC	24 V
Residual current I_r max.	100 μ A
Switching frequency	1666 Hz
Voltage drop U_d max. at I_e	0.7 V

Electrical connection

Cable length L	0.2 m
Connection	Cable with connector, M12x1- Male, 4-pin, 0.20 m, PVC
Polarity reversal protected	yes
Protection against device mix-ups	yes
Short-circuit protection	yes

Environmental conditions

Ambient temperature	-20...70 °C
EN 60068-2-27, Shock	Half-sinus, 30 g_n , 11 ms, 3x6
IP rating	IP67, 1200 psi pressure washing

Interface

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

Material

Housing material	PPE
Material jacket	PVC
Material sensing surface	PMMA

Mechanical data

Dimension	12.7 x 30.7 x 63.8 mm
Tightening torque max.	1.1 Nm

Optical features

Beam characteristic	Divergent
Blind zone	25 mm
Light spot size	34 x 34 mm at 100 mm
Light type	LED, red light
Polarizing filter	no
Principle of optical operation	Retroreflective sensor
Switching function, optical	dark-on/light-on
Wave length	660 nm

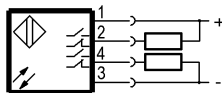
Range/Distance

Range	0...2.5 m
Rated operating distance Sn	2.5 m Adjustable

Connector Drawings



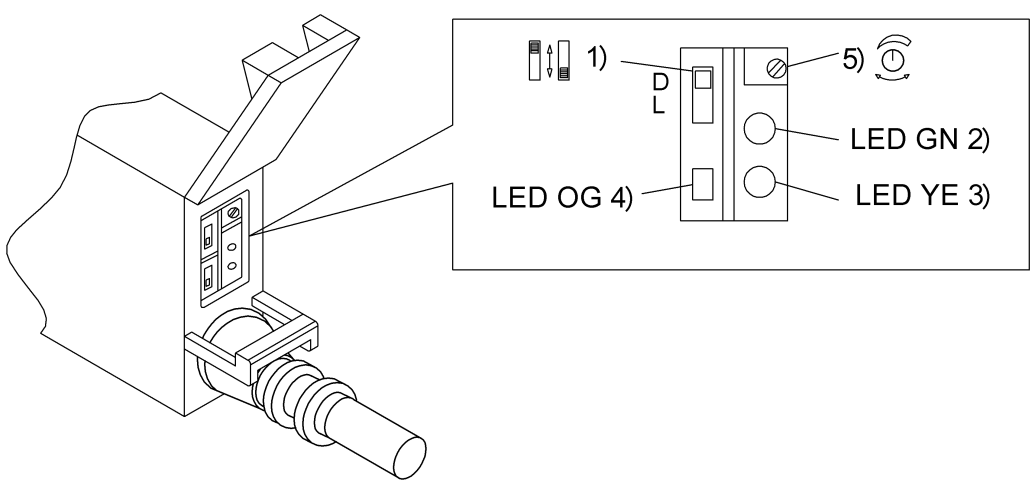
Wiring Diagrams



Photoelectric Sensors
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Help Views



- 1) Light-on/dark-on
- 2) Operating voltage
- 3) Output function
- 4) Stability/Short-circuit
- 5) Sn

Opto Symbols

