

1) Fiber fitting, 2) Removable cover



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9L77



LR 703249



Basic features

Approval/Conformity	CE CSA cULus EAC WEEE
Basic standard	IEC 60947-5-2
Principle of operation	Fiber optic device
Series	16K
Style	Square Straight connection

Electrical connection

Cable length L	0.2 m
Connection	Cable with connector, M12x1- Male, 3-pin, 0.20 m, PVC
Fiber optics connection	Ø 2.2 mm
Polarity reversal protected	yes
Protection against device mix-ups	yes
Short-circuit protection	yes

Display/Operation

Adjuster	5-turn potentiometer Slide switch
Display	Output function- LED yellow LED green: Power Short circuit - LED orange, flashing Stability - LED orange
Setting	Light-on/dark-on Sensitivity (Sn)

Photoelectric Sensors
BOS 16K-UU-1FR-00.2-S4
Order Code: BOS00P5

BALLUFF

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	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	0.7 V

Environmental conditions

Ambient temperature	-20...70 °C
EN 60068-2-27, Shock	Half-sinus, 30 g _n , 11 ms, 3x6
EN 60068-2-6, Vibration	55 Hz, amplitude 1 mm, 3x30 min
IP rating	IP67, 1200 psi pressure washing

Interface

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

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

For additional information, refer to user's guide.

Order accessories separately.

Only for applications per NFPA 79 (machines with a supply voltage of maximum 600 V). Use an R/C (CYJV2) cable with suitable properties for attaching the device.

Material

Housing material	PPE
Material jacket	PVC

Mechanical data

Dimension	12.7 x 30.7 x 71.8 mm
Mounting part	Screw M3 Nut M18x1
Tightening torque max.	1.1 Nm

Optical features

Light type	LED, red light
Principle of optical operation	depends on fiber optics
Switching function, optical	Light/dark switching
Wave length	660 nm

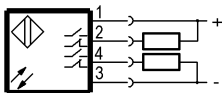
Range/Distance

Range	depends on fiber optics
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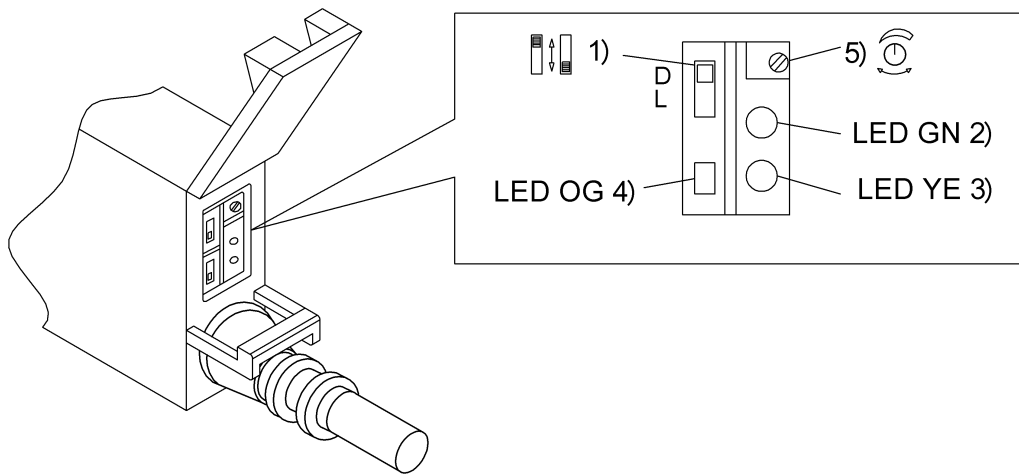
Connector Drawings



Wiring Diagrams (Schematic)



Help Views



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

Opto Symbols

