

1) Optical axis, 2) Removable cover



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9L77



LR 703249

**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 Rated switching distance (Sn)

**Electrical connection**

Cable length L	0.2 m
Connection	Cable with connector, 1/2"-20 UNF-Male, 0.20 m, PVC
Electrical version	2-wire
Polarity reversal protected	yes
Protection against device mix-ups	yes
Short-circuit protection	yes

**Electrical data**

No-load current I <sub>0</sub> max. at U <sub>e</sub>	25 mA
Operating voltage U <sub>b</sub>	22...250 VDC/22...250 VAC
Protection class	II
Rated insulation voltage U <sub>i</sub>	300 V AC
Rated operating current I <sub>e</sub>	100 mA
Rated operating voltage U <sub>e</sub> AC	115 V
Rated operating voltage U <sub>e</sub> DC	24 V
Switching frequency	60 Hz
Turn-off delay t <sub>off</sub> max.	8.3 ms
Turn-on delay t <sub>on</sub> max.	8.3 ms
Voltage drop U <sub>d</sub> max. at I <sub>e</sub>	8 V

**Environmental conditions**

Ambient temperature	-20...70 °C
EN 60068-2-27, Shock	Half-sinus, 30 gn, 11 ms, 3x6
EN 60068-2-6, Vibration	10...55 Hz, amplitude 1 mm, 3x30 min
IP rating	IP67 1200 psi pressure washing

## General data

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

## Material

Housing material	PPE
Material jacket	PVC
Material sensing surface	PMMA

## Mechanical data

Dimension	12.7 x 30.7 x 76.5 mm
Mounting	Nut M18x1 Screw M3
Tightening torque max.	1.1 Nm

## Remarks

Order accessories separately.

For additional information, refer to user's guide.

Reference object (target): gray card, 100 x 100, 90 % remission, axial approach.

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

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.

## Optical data

Beam characteristic	Focus, typical at 43 mm
Light spot size	Ø 2.4 mm at focal point
Light type	LED, red light
Principle of optical operation	Diffuse sensor, triangulation
Special optical feature	Fixed focus
Switching function, optical	Light/dark switching
Wave length	660 nm

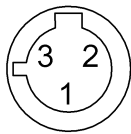
## Output/Interface

Switching output	polarized normally open/normally closed (NO/NC)
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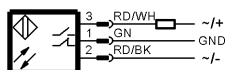
## Range/Distance

Range	11...75 mm
Rated operating distance Sn	75 mm Adjustable

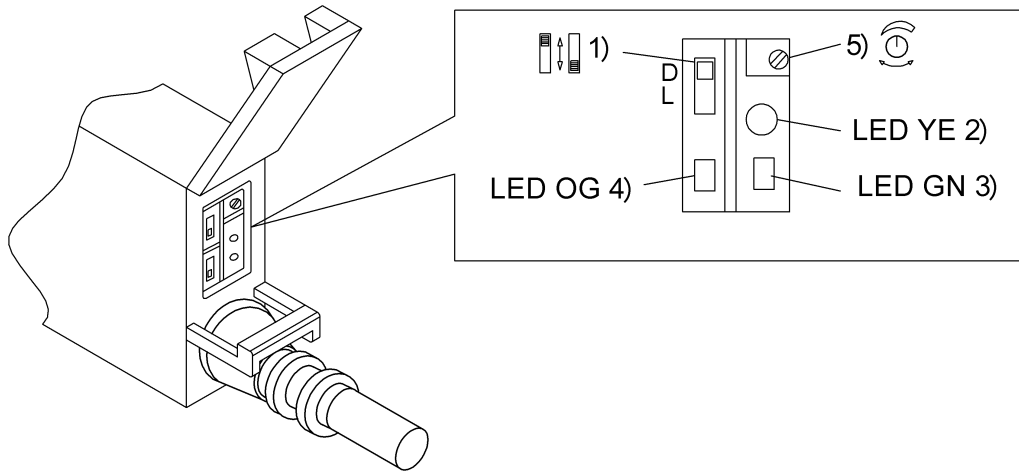
## Connector Drawings



## Wiring Diagrams



## Help Views



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

## Opto Symbols

