

1) Optical axis, 2) Removable cover



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 diameter D	6.50 mm
Cable length L	2 m
Conductor cross-section	0.13 mm <sup>2</sup>
Connection	Cable, 2.00 m, PVC
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>	35 mA
Operating voltage U <sub>b</sub>	11...30 VDC
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> DC	24 V
Residual current I <sub>r</sub> max.	100 µA
Switching frequency	1666 Hz
Turn-off delay t <sub>off</sub> max.	0.3 ms
Turn-on delay t <sub>on</sub> max.	0.3 ms
Voltage drop U <sub>d</sub> max. at I <sub>e</sub>	0.7 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

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

## Material

<b>Housing material</b>	PPE
<b>Material jacket</b>	PVC
<b>Material sensing surface</b>	PMMA

## Mechanical data

<b>Dimension</b>	12.7 x 30.7 x 63.8 mm
<b>Mounting</b>	Screw M3
	Nut M18x1
<b>Tightening torque max.</b>	1.1 Nm

## Remarks

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.  
 Order accessories separately.

## Optical data

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

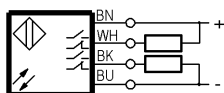
## Output/Interface

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

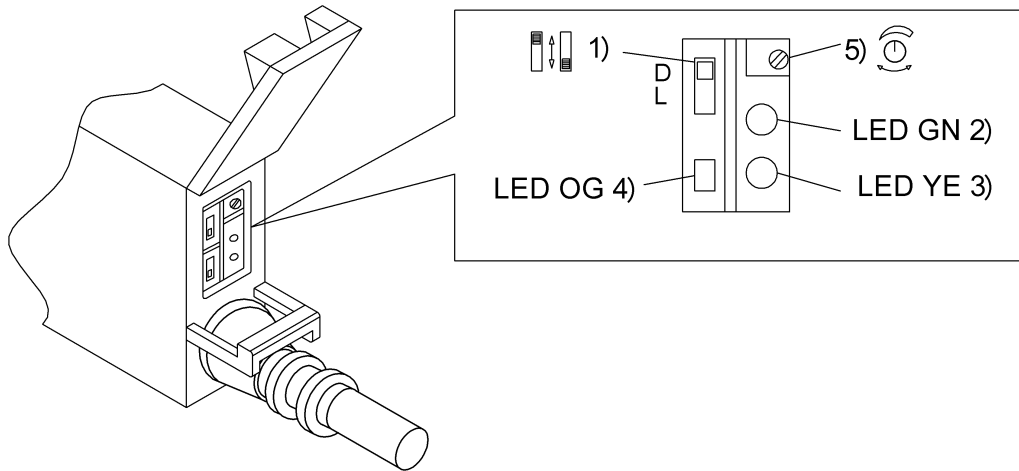
## Range/Distance

<b>Range</b>	11...75 mm
<b>Rated operating distance Sn</b>	75 mm Adjustable

## Wiring Diagrams



## Help Views



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

## Opto Symbols

