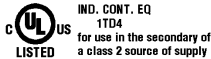


1) Optical axis 2) Output function 3) Stability 4) Sn



Display/Operation

Adjuster	Potentiometer 270°
Display	Output function- LED yellow Stability - LED green
Setting	Rated switching distance (Sn)

Electrical connection

Connection	Connector, M12x1 connector, 4-pin
Polarity reversal protected	yes
Short-circuit protection	yes

Electrical data

No-load current I_0 max. at U_e	35 mA
Operating voltage U_b	10...30 VDC
Rated insulation voltage U_i	75 V DC
Rated operating current I_e	100 mA
Rated operating voltage U_e DC	24 V
Ripple max. (% of U_e)	8 %
Switching frequency	1000 Hz
Turn-off delay t_{off} max.	0.5 ms
Turn-on delay t_{on} max.	0.5 ms
Voltage drop U_d max. at I_e	2 V

Environmental conditions

Ambient temperature	-25...55 °C
EN 60068-2-27, Shock	Half-sinus, 30 gn, 11 ms, 3x6
EN 60068-2-6, Vibration	10...55 Hz, amplitude 0.5 mm, 3x30 min
IP rating	IP67

Functional safety

MTTF (40 °C)	639 a
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General data

Approval/Conformity	CE cULus EAC
Basic standard	IEC 60947-5-2
Principle of operation	Photoelectric sensor
Series	18KW
Style	Flat cylinder Optics 90°
Trademark	Global

Material

Housing material	PBT
Sensing surface material	PMMA

Mechanical data

Dimension	Ø 18 x 14 mm
Mounting	Screw M3 Nut M18x1
Tightening torque max.	1.5 Nm

Optical data

Ambient light max.	5000 Lux
Beam characteristic	Divergent
Light spot size	Ø 100 mm at 300 mm
Light type	Infrared
Principle of optical operation	Diffuse sensor, energetic

Switching function, optical	Light-on dark-on
Wave length	880 nm

Remarks

The sensor is functional again after the overload has been eliminated.
 Reference object (target): gray card, 200 x 200, 90 % remission, axial approach.
 For additional information, refer to user's guide.
 Order accessories separately.

For more information about MTTF and B10d see MTTF / B10d Certificate

Indication of the MTTF- / B10d value does not represent a binding composition and/or life expectancy assurance; these are simply experiential values with no warranty implications. These declared values also do not extend the expiration period for defect claims or affect it in any way.

Output/Interface

Switching output	PNP normally open (NO) PNP NC Pins 4-2
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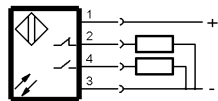
Range/Distance

Range	0...400 mm
Rated operating distance Sn	400 mm Adjustable

Connector view



Wiring Diagram



Symbols for Optoelectronic Sensors

