

1) Optical axis 2) Output function



Electrical connection

Connection	M8x1-Male, 3-pole
Contact, surface protection	Gold plated
Protection against device mix-ups	yes
Short-circuit protection	yes

Electrical data

Load capacitance max. at Ue	0.5 µF
No-load current I _o max. at Ue	15 mA
Operating voltage U _b	10...30 VDC
Polarity reversal protected	yes
Rated insulation voltage U _i	75 V DC
Rated operating current I _e	100 mA
Rated operating voltage U _e DC	24 V
Ready delay t _v max.	20 ms
Ripple max. (% of U _e)	10 %
Switching frequency	500 Hz
Turn-off delay t _{off} max.	1 ms
Turn-on delay t _{on} max.	1 ms
Utilization category	DC-13
Voltage drop U _d max. at I _e	0.7 V

Environmental conditions

Ambient temperature	-5...55 °C
IP rating per IEC 60529	IP67

General data

Approval/Conformity	cULus CE
Basic standard	IEC 60947-5-2

Series	08E
Style	Cylinder Straight optics

Material

Housing material	Stainless steel
Material sensing surface	PMMA

Mechanical data

Dimension	Ø 8 x 40 mm
Fastening detail	Nut M8x1

Optical data

Beam characteristic	Divergent
LED group per IEC 62471	Exempt Group
Light spot size	Ø 3.0 mm Light exit
Light type	LED Red light
Principle of optical operation	Diffuse sensor, energetic
Wave length	645 nm

Output/Interface

Switching output	PNP Normally open (NO)
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Range/Distance

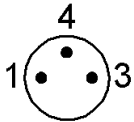
Measuring range	1...60 mm
Range	1...60 mm
Rated operating distance S _n	60 mm

Remarks

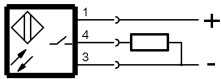
Order accessories separately.
For additional information, refer to users guide.
Only for applications per NFPA 79 (machines with a supply voltage of maximum 600 V). Use an R/C (CYJV2) cable with suitable properties for

attaching the device.
Actuation object (target): gray card, 200 x 200, 90 % remission, lateral approach, approach direction vertical to lens axis plane.
The sensor is functional again after the overload has been eliminated.

Connector view



Wiring Diagram



Symbols for Optoelectronic Sensors

