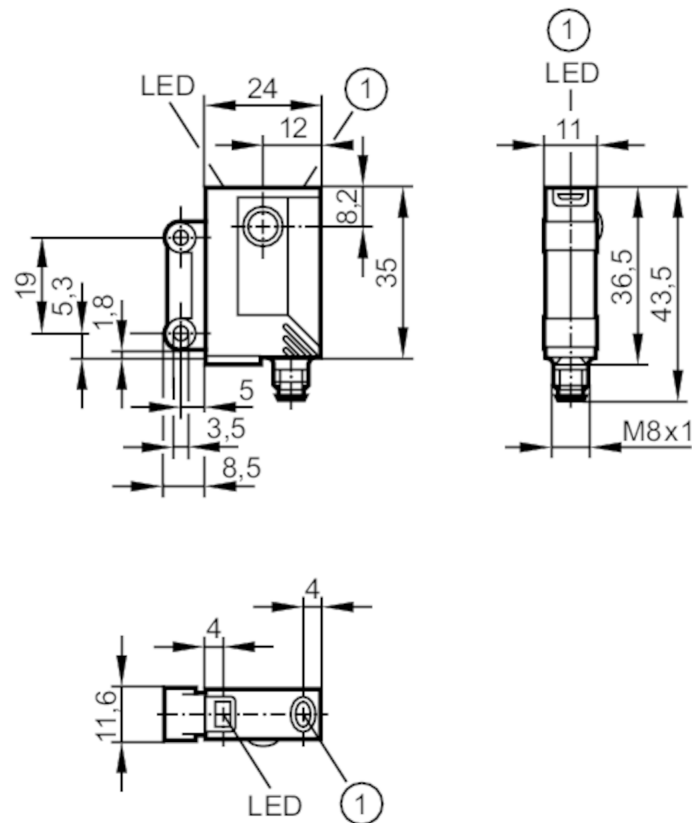




Retro-reflective laser sensor

OJPLFPKG/FO/AS



1 pushbutton



Product characteristics		
Type of light		red light
Laser protection class		1
Housing		rectangular
Application		
Special feature		polarisation filter
Function principle		Retro-reflective sensor
Electrical data		
Operating voltage	[V]	10...30 DC
Current consumption	[mA]	< 15
Protection class		III
Reverse polarity protection		yes
Type of light		red light
Wave length	[nm]	650
Typ. lifetime	[h]	50000
Outputs		
Electrical design		PNP
Output function		light-on/dark-on mode; (programmable)



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Max. voltage drop switching output DC	[V]	2.5
Permanent current rating of switching output DC	[mA]	200
Switching frequency DC	[Hz]	2000
Short-circuit protection		yes
Type of short-circuit protection		pulsed
Overload protection		yes

Detection zone

Range referred to prismatic reflector	[m]	8; (Prismatic reflector 50 x 50 mm E20722)
Range adjustable		yes
Diameter of the smallest detectable object	[mm]	2.5; (0,1 m; 2,5 m: 4; 5 m: 8)
Max. light spot diameter	[mm]	12
Light spot dimensions refer to		at maximum range
Polarisation filter available		yes

Operating conditions

Ambient temperature	[°C]	-10...60
Protection		IP 67

Tests / approvals

EMC	EN 60947-5-2	
Laser protection class		1
Notes on laser protection	Caution:	laser light
	laser class:	1
		EN / IEC60825-1:2007
		EN / IEC60825-1:2014
		Complies with 21 CFR 1040 except for deviations pursuant to Laser Notice No. 50, dated June 2007.
MTTF	[years]	706

Mechanical data

Weight	[g]	27.9
Housing		rectangular
Dimensions	[mm]	35 x 24 x 11
Materials		housing: ABS; LED window: SEPS; pushbutton: SEPS
Lens material		glass
Lens alignment		front lens

Displays / operating elements

Display	switching status	1 x LED, yellow
	operation	1 x LED, green
	function	1 x LED, red
Electronic lock		yes



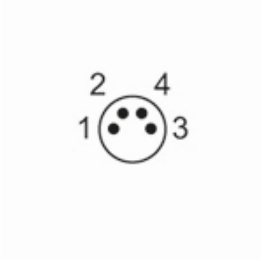
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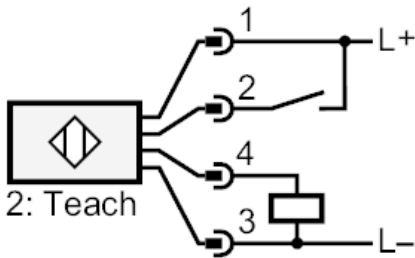
Accessories	
Items supplied	screws: 2
	spring washers: 2
	Nuts: 2
Remarks	
Remarks	operating voltage "supply class 2" according to cULus
Pack quantity	1 pcs.

Electrical connection

Connector: 1 x M8; coding: A



Connection



2 Teach

Retro-reflective laser sensor

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Diagrams and graphs

excess gain graph

