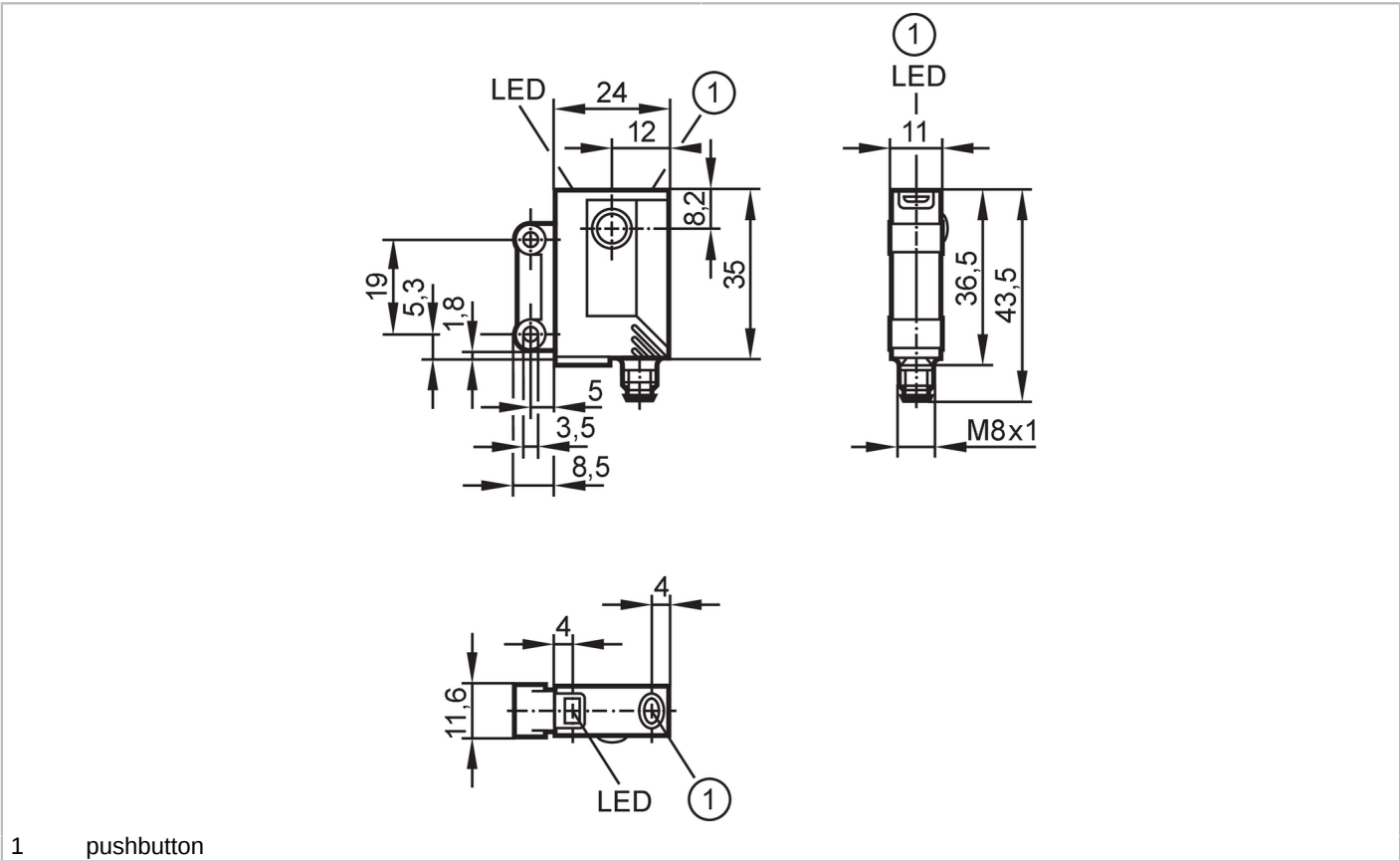




Retro-reflective LASER sensor

OJPLFPKG/FO/AS



Product characteristics		
Type of light		red light
Laser protection class		1
Housing		rectangular
Application		
Special feature		polarization filter
Function principle		Retro-reflective sensor
Application		For applications in robotics, assembly and handling technology
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)
Max. voltage drop switching output DC	[V]	2.5



Retro-reflective LASER sensor

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Permanent current rating of switching output DC [mA]	200
Switching frequency DC [Hz]	2000
Short-circuit protection	yes
Type of short-circuit protection	yes (non-latching)
Overload protection	yes

Monitoring range

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
Polarization 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 1040.10 except for conformance with IEC 60825-1 Ed. 3, as described in Laser Notice No. 56, dated May 8, 2019.
MTTF	[years]	706

Mechanical data

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

Displays / operating elements

Display	Switching status	1 x LED, yellow
	Power	1 x LED, green
	Function	1 x LED, red
Electronic lock	yes	

Accessories

Items supplied	screws: 2
	spring washers: 2
	Nuts: 2

OJ5114



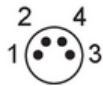
Retro-reflective LASER sensor

OJPLFPKG/FO/AS

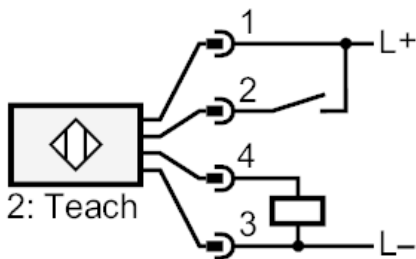
Remarks	
Remarks	cULus - Class 2 source required
Pack quantity	1 pcs.

Electrical connection

Connector: 1 x M8; coding: A; Contacts: 4



Connection



2 Teach

Diagrams and graphs

excess gain graph

