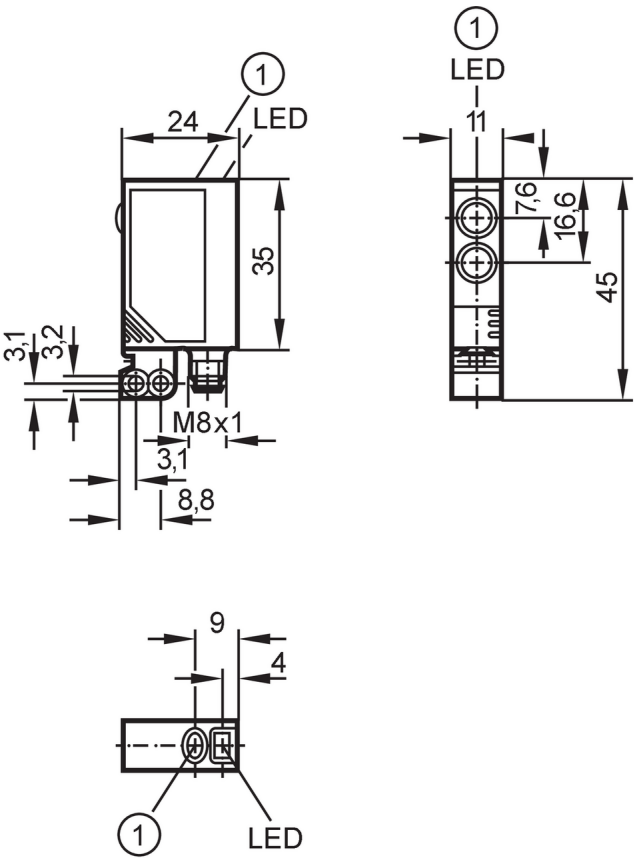




Diffuse reflection sensor

OJB-FPKG/SO/AS



1 pushbutton



Product characteristics		
Type of light		Infrared light
Housing		rectangular
Application		
Function principle		Diffuse reflection sensor
Application		For applications in robotics, assembly and handling technology
Electrical data		
Operating voltage	[V]	10...30 DC
Current consumption	[mA]	< 32
Protection class		III
Reverse polarity protection		yes
Type of light		Infrared light
Wave length	[nm]	880
Outputs		
Electrical design		PNP
Output function		light-on/dark-on mode; (programmable)
Max. voltage drop switching output DC	[V]	2.5
Permanent current rating of switching output DC	[mA]	200



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Switching frequency DC	[Hz]	2000
Short-circuit protection		yes
Type of short-circuit protection		yes (non-latching)
Overload protection		yes

Monitoring range		
Range	[mm]	1...1000; (white paper 200 x 200 mm 90 % remission)
Range adjustable		yes
Max. light spot diameter	[mm]	150
Light spot dimensions refer to		at maximum range

Operating conditions		
Ambient temperature	[°C]	-25...60
Protection		IP 67

Tests / approvals		
EMC	EN 60947-5-2	
MTTF	[years]	851

Mechanical data		
Weight	[g]	27.3
Housing		rectangular
Dimensions	[mm]	35 x 11 x 24
Material		housing: ABS; fixture: diecast zinc; LED window: SEPS; pushbutton: SEPS
Lens material		front lens:glass
Lens alignment		Side 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		Basic clip: 1, E20964
		screws: 2 x (M3 x 16 mm)
		spring washers: 2
		Nuts: 2

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

Electrical connection

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

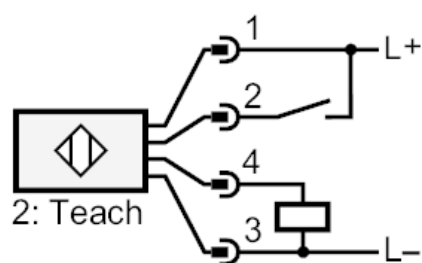




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Connection



2 Teach

Diagrams and graphs

excess gain graph

