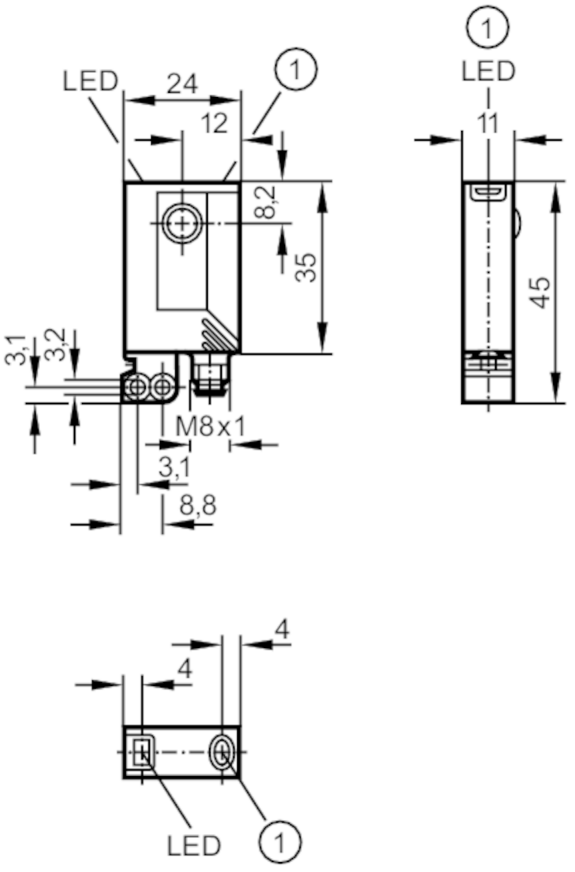
OJ5017

Through-beam laser sensor receiver

OJELFPKG/FO/AS



1 pushbutton

Product characteristics		
Type of light		red light
Laser protection class		1
Housing		rectangular
Application		
Function principle		Through-beam sensor
Electrical data		
Operating voltage	[V]	10...30 DC
Current consumption	[mA]	< 12
Protection class		III
Reverse polarity protection		yes
Type of light		red light
Wave length	[nm]	650
Typ. lifetime	[h]	50000
Outputs		
Electrical design		PNP

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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
Switching frequency DC	[Hz]		1200
Short-circuit protection			yes
Type of short-circuit protection			pulsed
Overload protection			yes
Detection zone			
Transmitter / receiver			receiver
Range	[m]		< 15
Range adjustable			yes
Diameter of the smallest detectable object	[mm]		2
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]		968
Mechanical data			
Weight	[g]		27.1
Housing			rectangular
Dimensions	[mm]		35 x 24 x 11
Materials			housing: ABS; fixture: diecast zinc; 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
Accessories			
Items supplied			Basic clip: 1, E20964
			screws: 2 x M3 x 16
			spring washers: 2
			Nuts: 2

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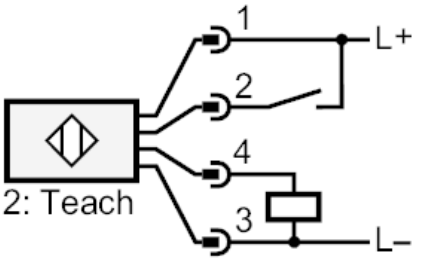
Remarks	
Remarks	operating voltage "supply class 2" according to cULus
Pack quantity	1 pcs.

Electrical connection

Connector: 1 x M8; coding: A

Connection



2	Teach

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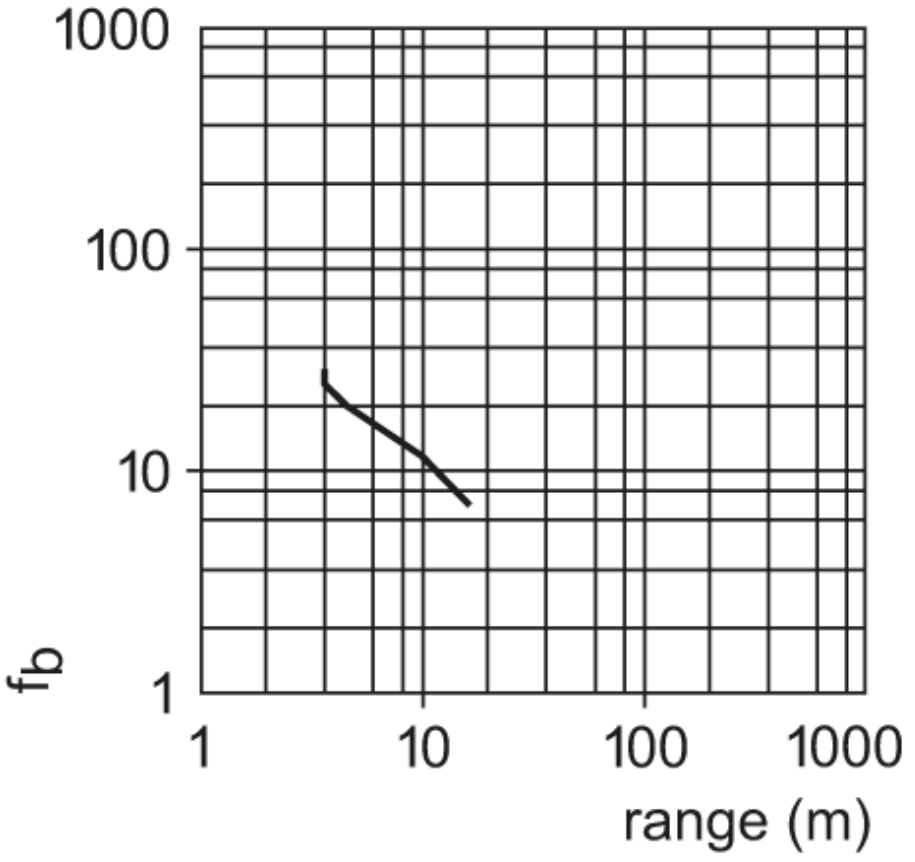
Diagrams and graphs

excess gain graph