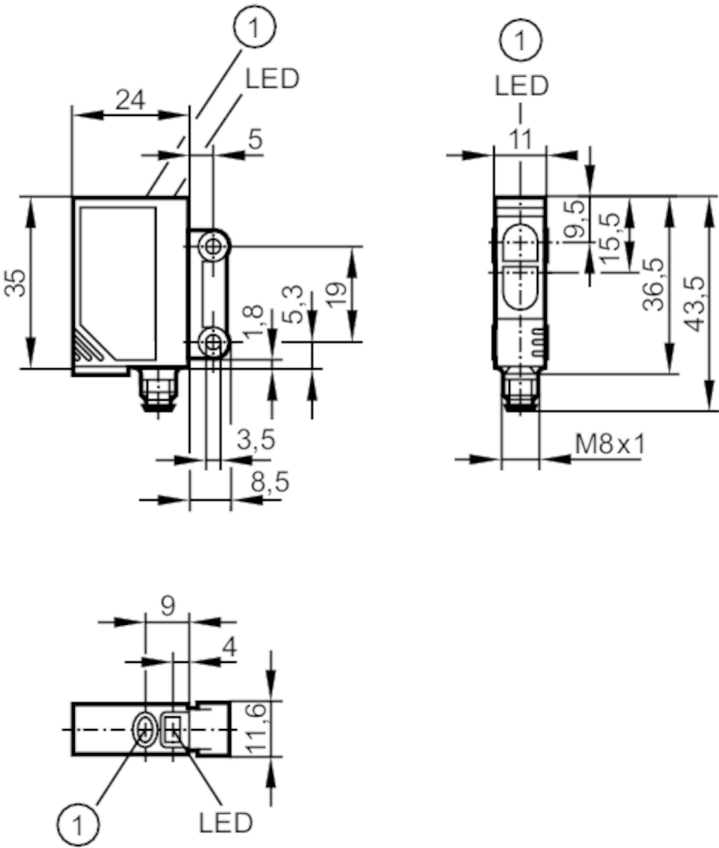




Laser diffuse reflection sensor

OJHLFPKG/SO/AS



- 1 pushbutton receiver in upper lens transmitter in lower lens



Product characteristics		
Type of light		red light
Laser protection class		1
Housing		rectangular
Application		
Special feature		Background suppression
Function principle		Diffuse reflection sensor
Electrical data		
Operating voltage	[V]	10...30 DC
Current consumption	[mA]	13
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]		1000
Short-circuit protection		yes
Type of short-circuit protection		pulsed
Overload protection		yes

Detection zone		
Range [mm]		7...150; (white paper 200 x 200 mm 90% remission)
Range adjustable		yes
Diameter of the smallest detectable object [mm]		0.8
Max. light spot diameter [mm]		0.8
Background suppression 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 [ANN]		501

Mechanical data		
Weight [g]		28.25
Housing		rectangular
Dimensions [mm]		35 x 11 x 24
Materials		housing: ABS; LED window: SEPS; pushbutton: SEPS
Lens material		PMMA
Lens alignment		side lens

Displays / operating elements		
Display	switching status	1 x LED, yellow
	operation	1 x LED, green
Electronic lock		yes

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



Laser diffuse reflection sensor

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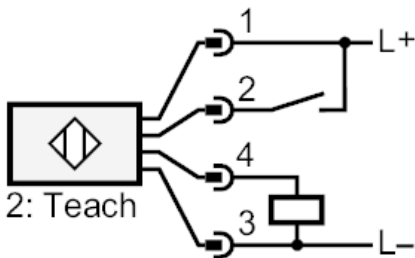
Remarks	
Remarks	operating voltage "supply class 2" according to cULus
Pack quantity	1 pcs.

Electrical connection

Connector: 1 x M8; coding: A

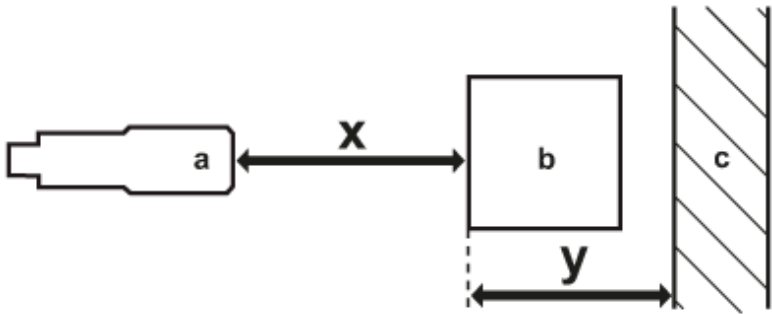


Connection



2 Teach

Diagrams and graphs



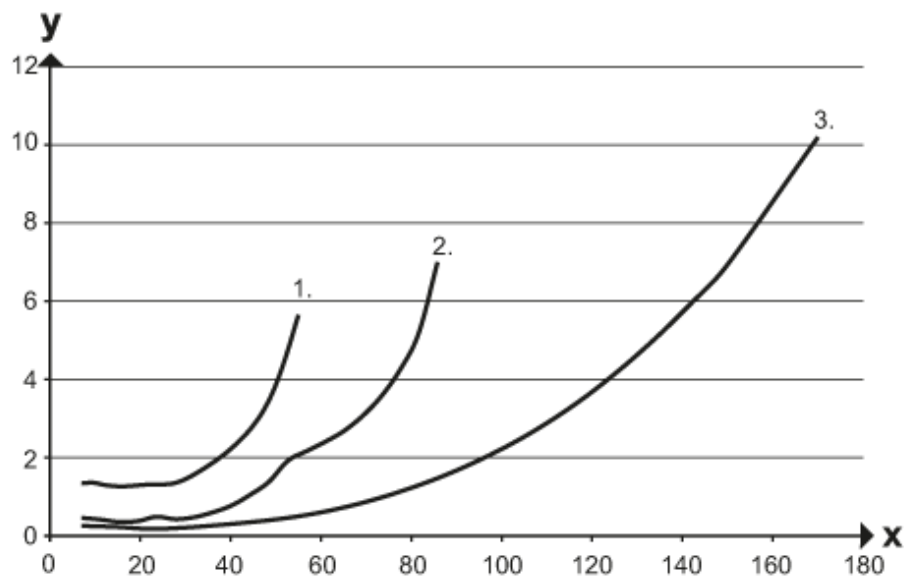
- a: sensor
- b: object
- c: background
- x: distance sensor/object [mm]
- y: min. distance object/background [mm]



Laser diffuse reflection sensor

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accuracy graph



x: distance sensor/object [mm]

y: min. distance object/background [mm]

1 = object black (6 % remission) , Фон білий (90 % ремісія)

2 = object grey (18 % remission) , Фон білий (90 % ремісія)

3 = object white (90 % remission) , Фон білий (90 % ремісія)