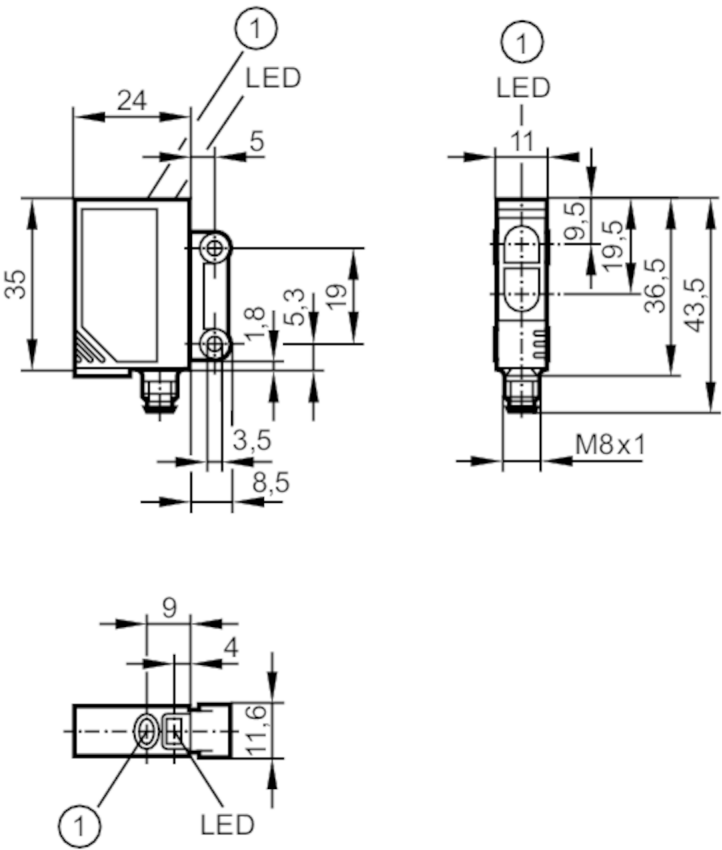




Laser diffuse reflection sensor

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



Laser diffuse reflection sensor

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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]	15...200; (white paper 200 x 200 mm 90% remission)	
Range adjustable	yes	
Diameter of the smallest detectable object [mm]	2	
Max. light spot width [mm]	2	
Max. light spot height [mm]	1	
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]	28.2	
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	



Laser diffuse reflection sensor

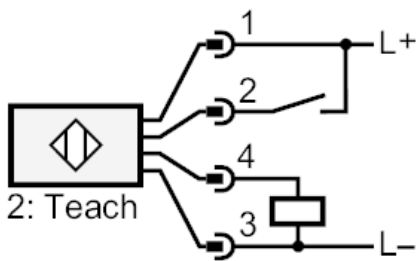
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Аксессуары	
Items supplied	screws: 2
	spring washers: 2
	Nuts: 2
Remarks	
Remarks	operating voltage "supply class 2" according to cULus
Pack quantity	1 pcs.
Electrical connection	

Connector: 1 x M8; coding: A

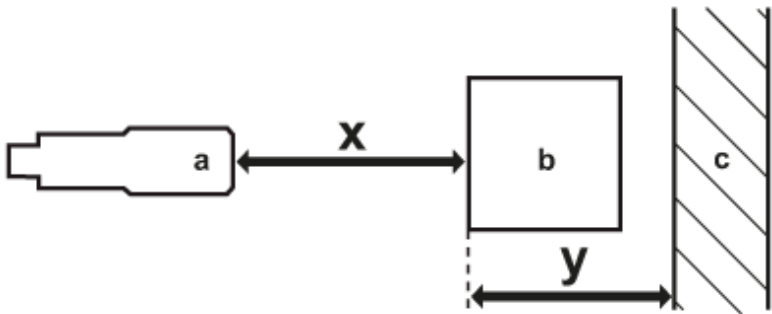


Connection

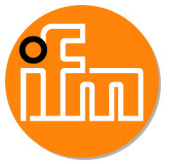


2 Teach

Diagrams and graphs



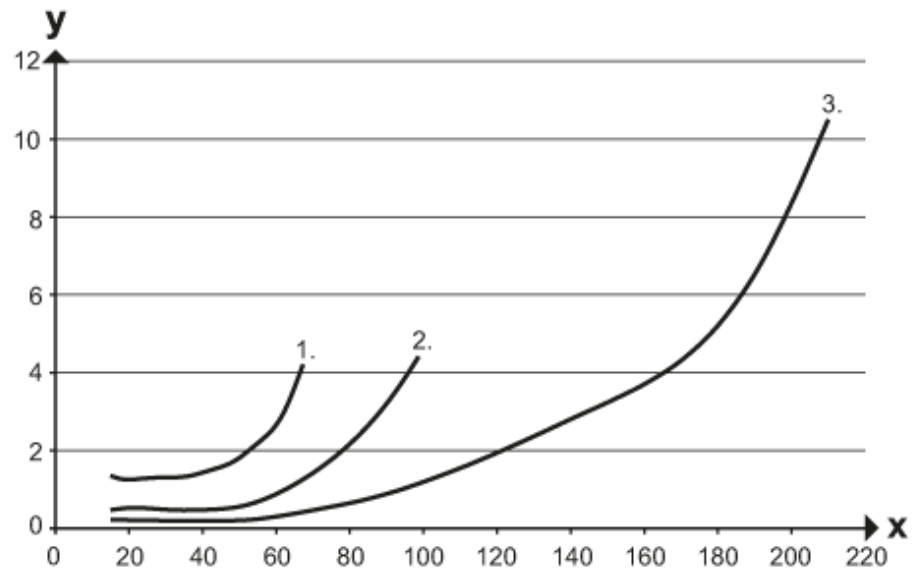
- a: sensor
- b: object
- c: background
- x: distance sensor/object [mm]
- y: min. distance object/background [mm]



Laser diffuse reflection sensor

OJHLFPKG/SO/AS

accuracy graph



x: distance sensor/object [mm]

y: min. distance object/background [mm]

1 = object black (6 % remission) , background white (90 % remission)

2 = object grey (18 % remission) , background white (90 % remission)

3 = object white (90 % remission) , background white (90 % remission)