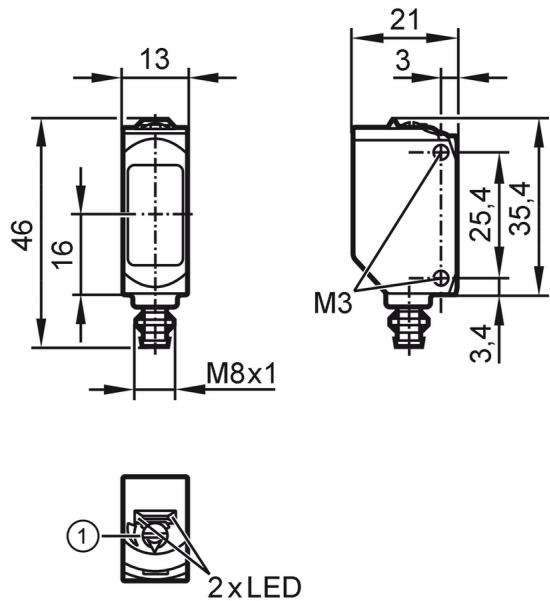




Diffuse reflection sensors with background suppression

O6WIFPKG/AS/4P



1 potentiometer



Product characteristics		
Type of light		Infrared light
Housing		rectangular
Application		
Special feature		Background suppression
Application	[m]	0.025...2
Function principle		Diffuse reflection sensor
Application		Industrial applications
Electrical data		
Operating voltage	[V]	10...30 DC
Current consumption	[mA]	< 30
Protection class		III
Reverse polarity protection		yes
Max. power-on delay time	[ms]	300
Type of light		Infrared light
Wave length	[nm]	940
Outputs		
Electrical design		PNP
Output function		light-on mode
Max. voltage drop switching output DC	[V]	2.5
Permanent current rating of switching output DC	[mA]	100
Short-circuit protection		yes
Type of short-circuit protection		yes (non-latching)



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Monitoring range		
Range	[mm]	25...400
Range adjustable		yes
Max. light spot diameter	[mm]	200
Light spot dimensions refer to		at maximum range
Background suppression available		yes
Background suppression	[m]	2
Measuring/setting range		
Sampling rate	[Hz]	10
Interfaces		
Communication interface		IO-Link
Transmission type		COM2 (38,4 kBaud)
IO-Link revision		1.1
SDCI standard		IEC 61131-9
Profiles	Smart Sensor - SSP 3.1	Measuring Sensor
	Common - I&D	Identification and Diagnosis
	Function	Multiple switching signal
	Function	Teach channel
SIO mode		yes
Required master port class		A
Min. process cycle time	[ms]	10
Supported DeviceIDs	Type of operation	DeviceID
	default	1159
Operating conditions		
Ambient temperature	[°C]	-25...55
Storage temperature	[°C]	-40...85
Protection		IP 65; IP 67
Max. immunity to extraneous light	[klx]	8
Tests / approvals		
EMC	EN 60947-5-2	
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]	682
UL approval	Ta	-25...55 °C
	Enclosure type	Type 1
	voltage supply	Limited Voltage/Current
	File number UL	E174191
Mechanical data		
Weight	[g]	18



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Housing	rectangular
Dimensions [mm]	35.4 x 13 x 21
Material	housing: ABS orange; upper part of the housing: PPSU black; sealing: EPDM
Lens material	front lens:PMMA
Tightening torque [Nm]	0.5

Displays / operating elements

Display	Switching status	1 x LED, yellow
	Power	1 x LED, green
Operating elements	potentiometer	

Remarks

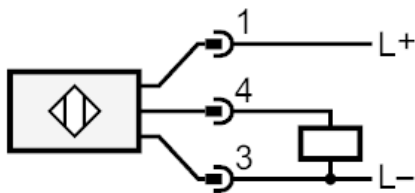
Pack quantity	1 pcs.
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Electrical connection

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

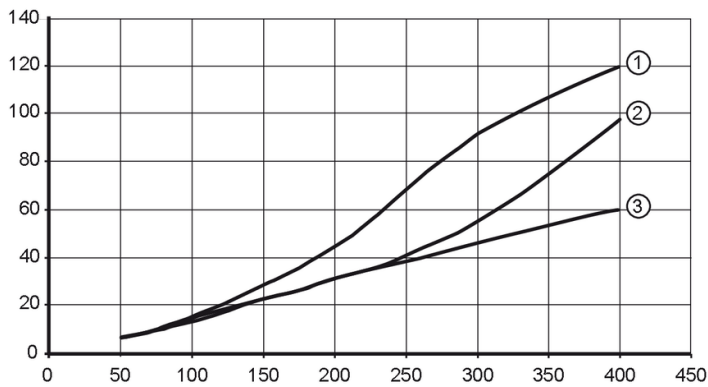


Connection



4 OUT / IO-Link

Diagrams and graphs

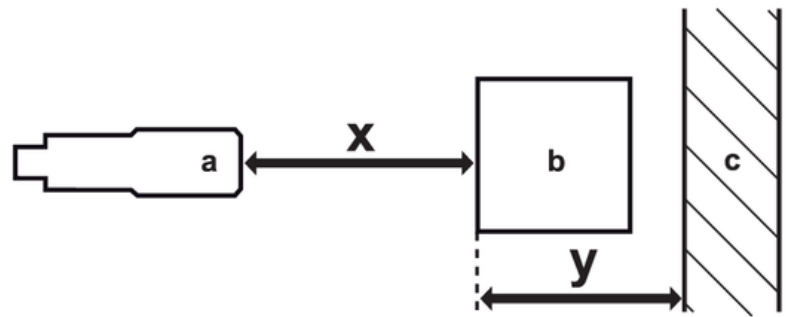


- 1 < 8 kLux
- 2 < 3 kLux
- 3 < 1 kLux



Diffuse reflection sensors with background suppression

O6WIFPKG/AS/4P



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