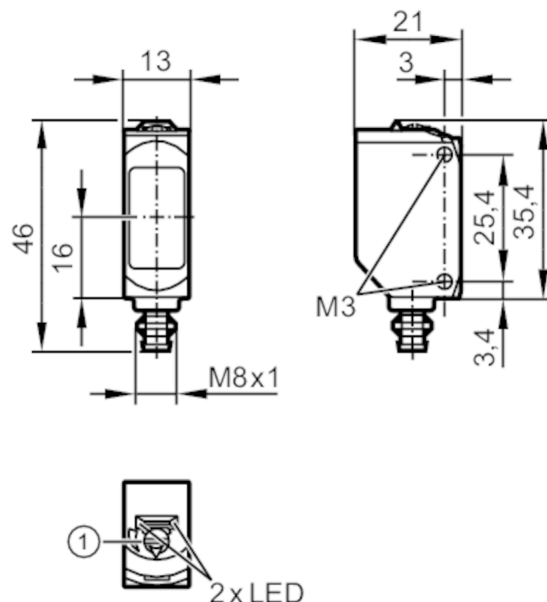


Diffuse reflection sensor with background suppression

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

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	pulsed



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Detection zone		
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: Device Identification; Switching Signal Channel; Process Data Variable; Device Diagnosis; Tech Channel
SIO mode		yes
Required master port type		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 except for deviations pursuant to Laser Notice No. 50, dated June 2007.
MTTF	[years]	682
UL approval	Ta	-25...55 °C
	Enclosure type	Type 1
	power supply	Limited Voltage/Current
	File number UL	E174191
Mechanical data		
Weight	[g]	18
Housing		rectangular
Dimensions	[mm]	35.4 x 13 x 21



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Materials	housing: ABS; PPSU; Sealing: EPDM	
Lens material	PMMA	
Tightening torque	[Nm]	0.5

Displays / operating elements

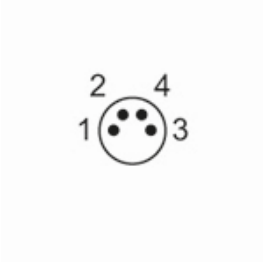
Display	switching status	1 x LED, yellow
	operation	1 x LED, green
Operating elements	potentiometer	

Remarks

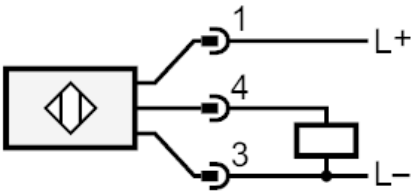
Pack quantity	1 pcs.
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Electrical connection

Connector: 1 x M8; coding: A



Connection

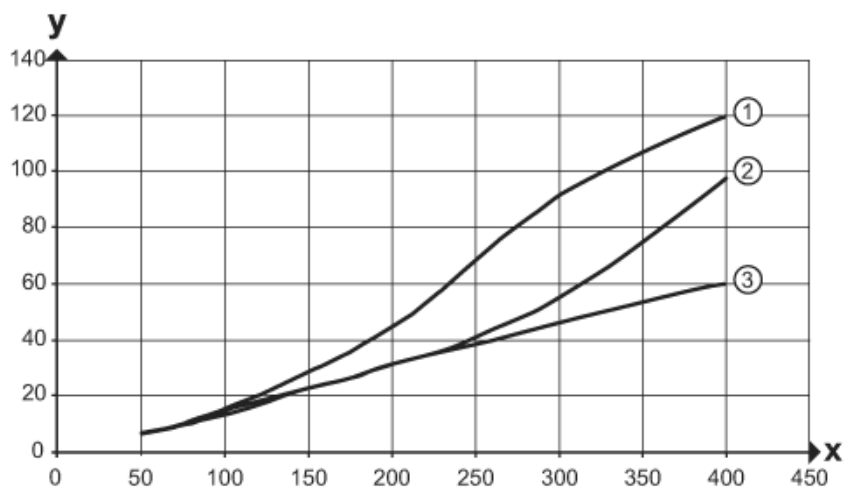


4 OUT / IO-Link

Diffuse reflection sensor with background suppression

O6WIFPKG/AS/4P

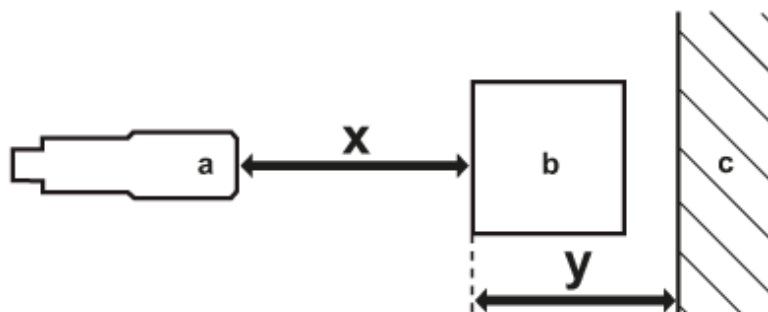
Diagrams and graphs



1 < 8 kLux

2 < 3 kLux

3 < 1 kLux



a: sensor

b: object

c: background

x: distance sensor/object [mm]

y: min. distance object/background [mm]