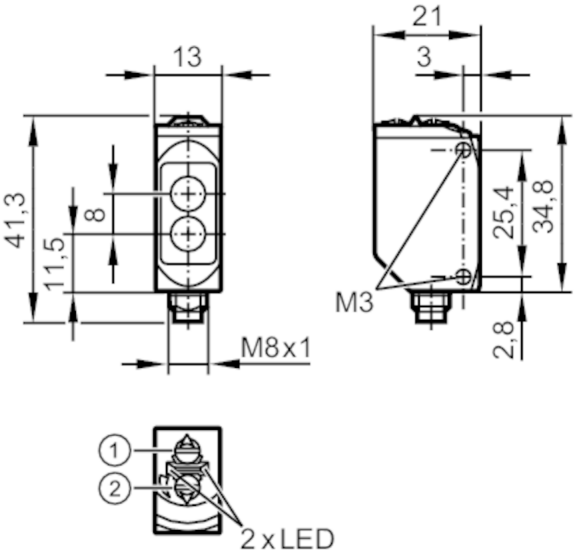
O6T309

Diffuse reflection sensor

O6T-FPKG/AS/4P



1: output function switch
2: potentiometer sensitivity

Product characteristics		
Type of light		red light
Housing		rectangular
Application		
Function principle		Diffuse reflection sensor
Electrical data		
Operating voltage	[V]	10...30 DC
Current consumption	[mA]	16; ((24 V))
Protection class		III
Reverse polarity protection		yes
Type of light		red light
Wave length	[nm]	633
Outputs		
Electrical design		PNP
Output function		light-on/dark-on mode; (selectable)
Max. voltage drop switching output DC	[V]	2.5
Permanent current rating of switching output DC	[mA]	100
Switching frequency DC	[Hz]	1000
Short-circuit protection		yes
Type of short-circuit protection		pulsed
Detection zone		
Range	[mm]	5...500; (white paper 200 x 200 mm 90% remission)
Setting range	[mm]	100...500

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Diffuse reflection sensor

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Range adjustable		yes	
Max. light spot diameter	[mm]	15	
Light spot dimensions refer to		at maximum range	
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; Binary Data Channel	
SIO mode		yes	
Required master port type		A	
Min. process cycle time	[ms]	2.5	
IO-Link process data (cyclical)		**function**	**bit length**
		process value	8
		binary switching information	1
IO-Link functions (acyclical)		application specific tag; operating hours counter; switching cycles counter	
Supported DeviceIDs		**Type of operation**	**DeviceID**
		default	423
Operating conditions			
Ambient temperature	[°C]	-25...80	
Protection		IP 65; IP 67; IP 68; IP 69K	
Tests / approvals			
EMC		EN 60947-5-2	
MTTF	[years]	681	
UL approval		UL Approval no.	E010
Mechanical data			
Weight	[g]	34.4	
Housing		rectangular	
Dimensions	[mm]	41.3 x 13 x 21	
Materials		housing: stainless steel (1.4404 / 316L); plastics: PPSU; Sealing: EPDM	
Lens material		PMMA	
Lens alignment		side lens	
Tightening torque	[Nm]	1; (screws)	
Displays / operating elements			
Display		switching status	1 x LED, yellow
		operation	1 x LED, green
Remarks			
Remarks		operating voltage "supply class 2" according to cULus	
Pack quantity		1 pcs.	

O6T309

Diffuse reflection sensor

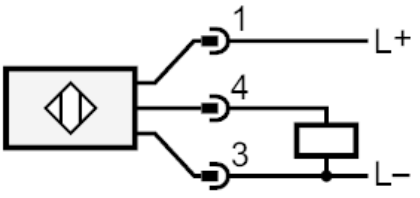
O6T-FPKG/AS/4P

Electrical connection

Connector: 1 x M8; coding: A



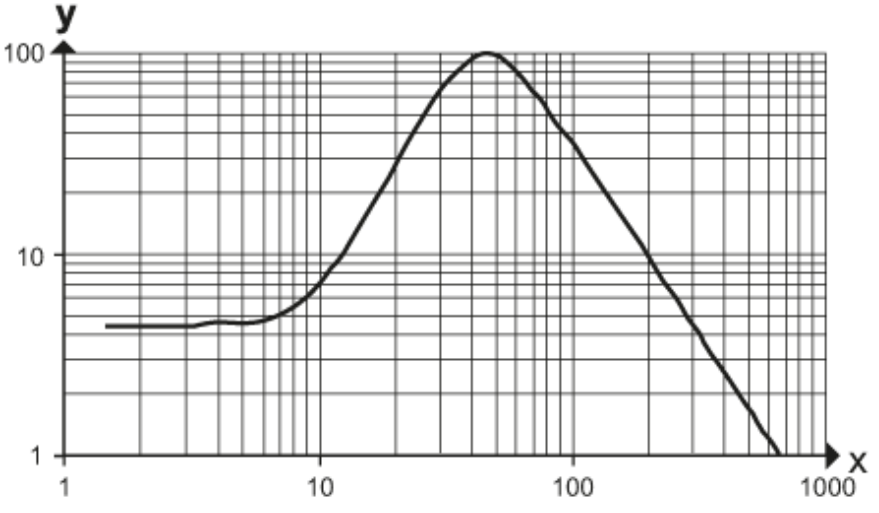
Connection



4	OUT / IO-Link

Diagrams and graphs

excess gain graph



x: distance [mm]

y: excess gain factor