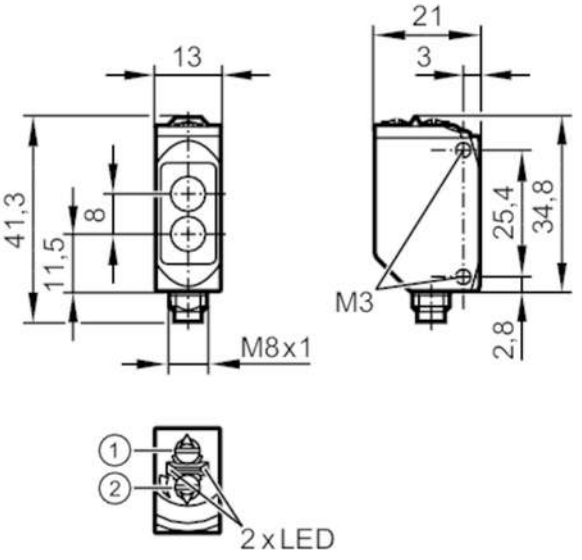
O6P309

Retro-reflective sensor

O6P-FPKG/AS/4P



1 output function switch
1 potentiometer sensitivity
receiver in upper lens
transmitter in lower lens

Application		
Function principle		Retro-reflective sensor
Electrical data		
Operating voltage	[V]	10...30 DC
Current consumption	[mA]	12; ((24 V))
Protection class		III
Reverse polarity protection		yes
Type of light		red light
Wave length	[nm]	633
Outputs		
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
Electrical design		PNP
Short-circuit protection		yes
Type of short-circuit protection		pulsed

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Range			
Range	[m]	0.05...5; (Prismatic reflector Ø 80 E20005)	
Range adjustable		yes	
Max. light spot diameter	[mm]	150	
Light spot dimensions refer to		at maximum range	
Polarisation filter available		yes	
Interfaces			
Communication interface		IO-Link	
Transmission type		COM2 (38,4kBaud)	
IO-Link revision		1.1	
SDCI standard		IEC 61131-9 CDV	
IO-Link device ID		422 d / 00 01 A6 h	
Profiles		Smart Sensor: Device Identification; Binary Data Channel	
SIO mode		yes	
Required master port type		A	
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 no.		E010	
Mechanical data			
Weight	[g]	35.4	
Housing		rectangular	
Dimensions	[mm]	41.3 x 13 x 21	
Materials		housing: stainless steel (1.4404 / 316L); plastics: PPSU; Sealing: EPDM	
Lens material		PMMA	
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.	

Electrical connection

Connector: 1 x M8

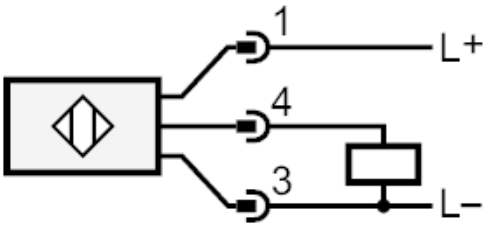


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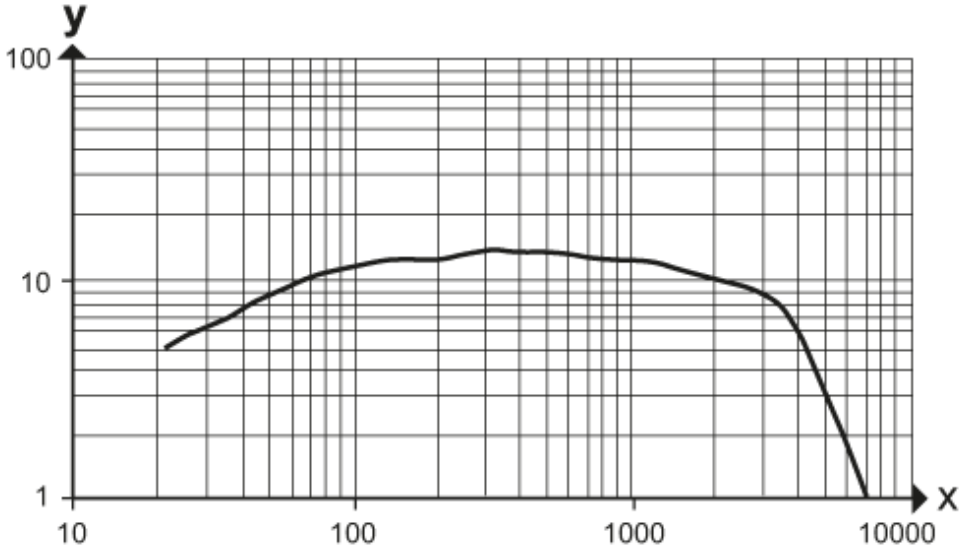
Connection



4	OUT / IO-Link

diagrams and graphs

excess gain graph



x: Abstand [mm]

y: Funktionsreservefaktor