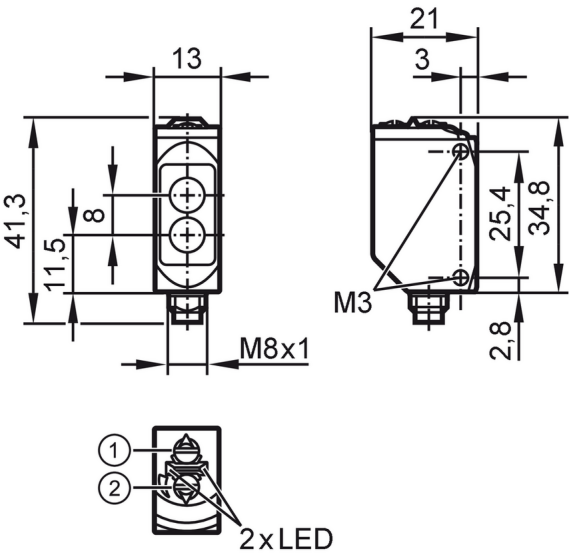
O6P309

Retro-reflective sensor

O6P-FPKG/AS/4P



1: output function switch
2: potentiometer sensitivity

Product characteristics		
Type of light		red light
Housing		rectangular
Application		
Special feature		polarisation filter
Function principle		Retro-reflective sensor
Application		food and beverage industry
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		
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

O6P309

Retro-reflective sensor

O6P-FPKG/AS/4P

Detection zone			
Range referred to prismatic reflector	[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 (38,4 kBaud)	
IO-Link revision		1.1	
SDCI standard		IEC 61131-9	
Profiles		Smart Sensor - SSP 0	Generic Profiled Sensor
		Function	Device identification
		Function	Multiple switching signal
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	422
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		Ta	-25...40 °C
		Enclosure type	Type 1
		voltage supply	Class 2
		UL approval no.	E010
Mechanical data			
Weight	[g]	34.4	
Housing		rectangular	
Dimensions	[mm]	41.3 x 13 x 21	
Materials		housing: stainless steel (316L/1.4404); Sealing: EPDM; plastics: PPSU	
Lens material		front pane: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

O6P309

Retro-reflective sensor

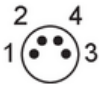
O6P-FPKG/AS/4P

Remarks

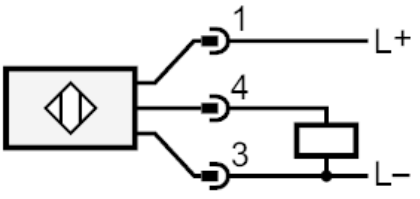
Remarks	operating voltage "supply class 2" according to cULus
Pack quantity	1 pcs.

Electrical connection

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



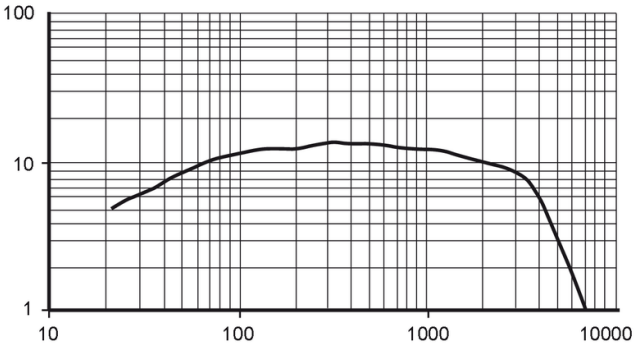
Connection



4	OUT / IO-Link

Diagrams and graphs

excess gain graph



x: distance [mm]

y: excess gain factor