

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

System	polarization filter
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

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		yes (non-latching)



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Monitoring range		
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
Polarization 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 class		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 number	E010
Mechanical data		
Weight	[g]	34.4
Housing		rectangular
Dimensions	[mm]	41.3 x 13 x 21
Material		housing: stainless steel (1.4404 / 316L); plastics: PPSU; sealing: EPDM
Lens material		PMMA
Lens alignment		Side sensing
Tightening torque	[Nm]	1; (screws)
Displays / operating elements		
Display	Switching status	1 x LED, yellow
	Power	1 x LED, green

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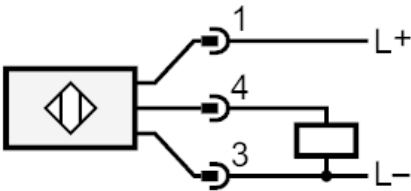
Remarks	
Remarks	cULus - Class 2 source required
Pack quantity	1 pcs.

Electrical connection

Connector: 1 x M8; coding: A



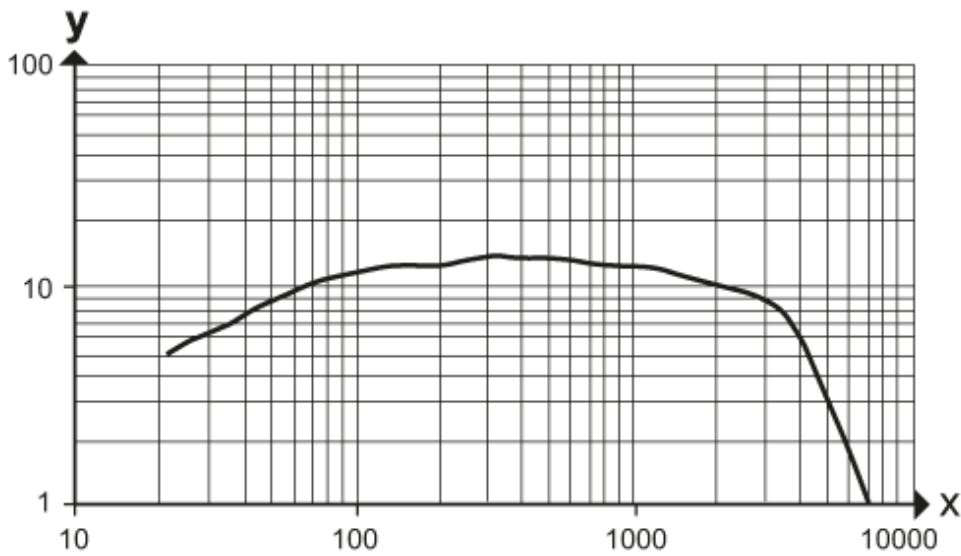
Connection



4 OUT / IO-Link

Diagrams and graphs

excess gain graph



x: distance [mm]
y: excess gain factor