

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

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



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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: 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	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	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); 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.

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Electrical connection

Connector: 1 x M8; coding: A



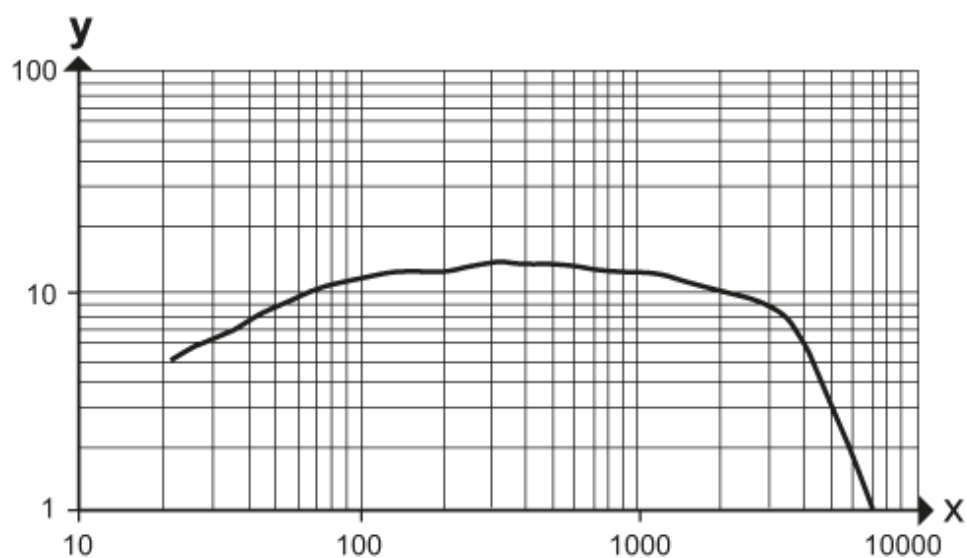
Connection



4 OUT / IO-Link

Diagrams and graphs

excess gain graph



x: distance [mm]

y: excess gain factor