

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)

O6P309



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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: Device Identification; Binary Data Channel	
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
IO-Link functions (acyclical)	binary switching information	1
	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 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	
Displays / operating elements		
Display	Switching status	1 x LED, yellow
	Power	1 x LED, green
Remarks		
Remarks	cULus - Class 2 source required	
Pack quantity	1 pcs.	
Electrical connection		
Connector: 1 x M8; coding: A		

O6P309



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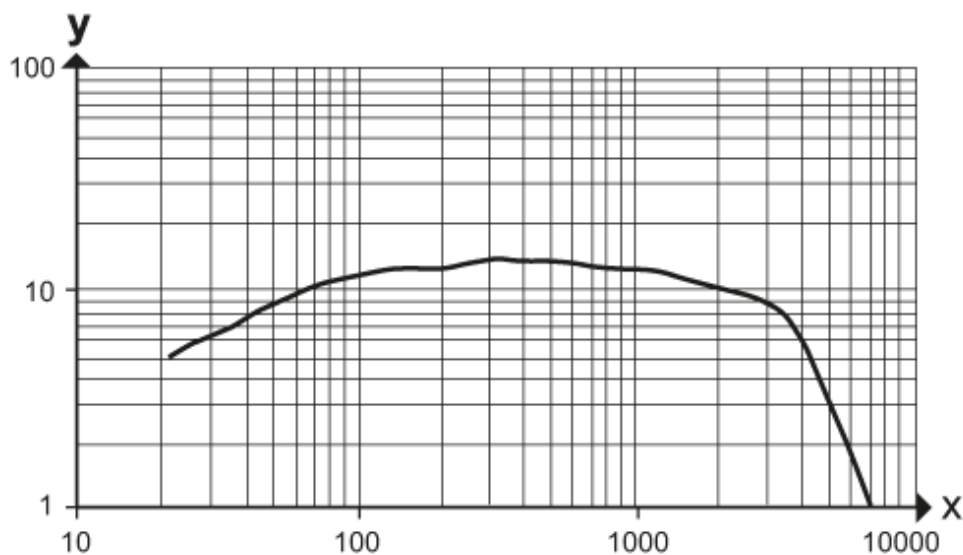
Connection



4 OUT / IO-Link

Diagrams and graphs

excess gain graph



x: distance [mm]
y: excess gain factor