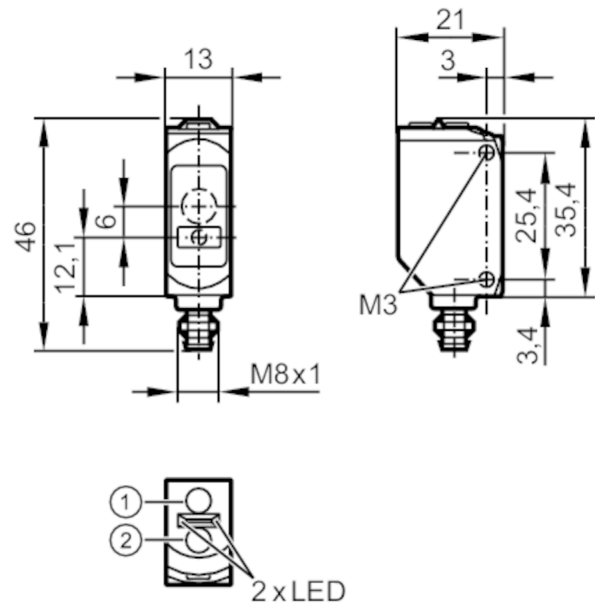


O6P705



Retro-reflective sensor

O6PLFNKG/AS/4P



- 1 programming buttons
receiver in upper lens , transmitter in lower lens



Product characteristics

Type of light	red light
Laser protection class	1
Housing	rectangular

Application

Function principle	Retro-reflective sensor
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Electrical data

Operating voltage	[V]	10...30 DC
Current consumption	[mA]	15; (24 V)
Protection class		III
Reverse polarity protection		yes
Type of light		red light
Wave length	[nm]	650

Outputs

Electrical design		NPN
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
Type of short-circuit protection		pulsed



Retro-reflective sensor

O6PLFNKG/AS/4P

Detection zone		
Range	[m]	0.075...8; (Prismatic reflector 50 x 50 mm E20722)
Max. light spot diameter	[mm]	17
Light spot dimensions refer to		at maximum range
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; Device Diagnosis; Teach Channel; Switching 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
	device status	4
	binary switching information	1
IO-Link functions (acyclical)		application specific tag; operating hours counter; switching cycles counter
Supported DeviceIDs	Type of operation	DeviceID
	default	525
Operating conditions		
Ambient temperature	[°C]	-10...60
Protection		IP 65; IP 67
Tests / approvals		
EMC	EN 60947-5-2	
Laser protection class		1
Notes on laser protection	Caution:	laser light
	laser class:	1
		EN / IEC60825-1:2007
		EN / IEC60825-1:2014
		Complies with 21 CFR 1040 except for deviations pursuant to Laser Notice No. 50, dated June 2007.
MTTF	[years]	636
Mechanical data		
Weight	[g]	19.3
Housing		rectangular
Dimensions	[mm]	46 x 13 x 21
Materials		housing: ABS; PPSU; Sealing: EPDM
Lens material		PMMA
Lens alignment		side lens
Tightening torque	[Nm]	0.5; (screws)
Displays / operating elements		
Display	switching status	1 x LED, yellow
	operation	1 x LED, green

Retro-reflective sensor

O6PLFNKG/AS/4P

Remarks

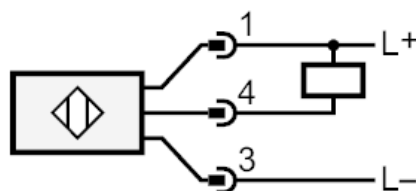
Remarks	operating voltage "supply class 2" according to cULus
Pack quantity	1 pcs.

Electrical connection - plug

Connector: 1 x M8; coding: A

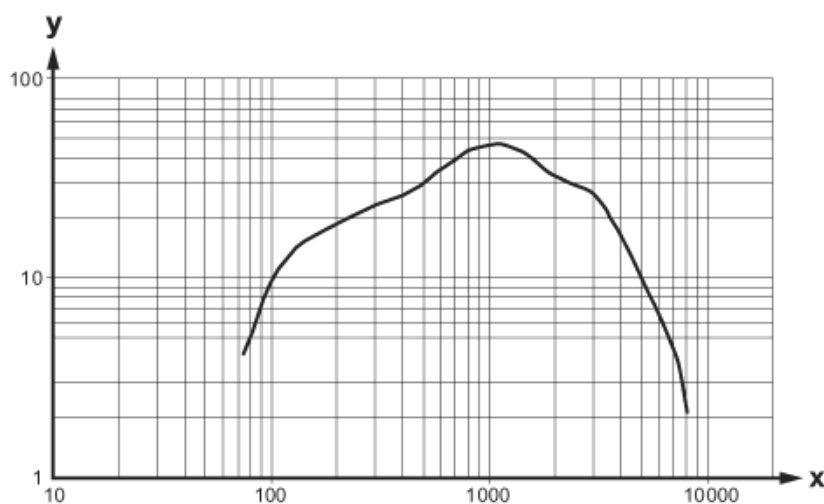


Connection



4 OUT / IO-Link

Diagrams and graphs



x: Abstand [mm]

y: Funktionsreservefaktor