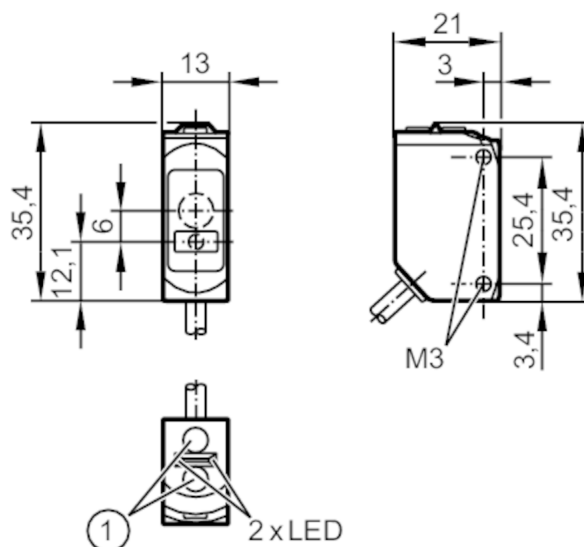




Retro-reflective sensor

O6PLFNKG/0,30m/US



- 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

Detection zone

Range	[m]	0.075...8; (Prismatic reflector 50 x 50 mm E20722)
Max. light spot diameter	[mm]	17



Retro-reflective sensor

O6PLFNKG/0,30m/US

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]		34.1	
Housing		rectangular	
Dimensions [mm]		35.4 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
Remarks			
Remarks		operating voltage "supply class 2" according to cULus	
Pack quantity		1 pcs.	

O6P704



Retro-reflective sensor

O6PLFNKG/0,30m/US

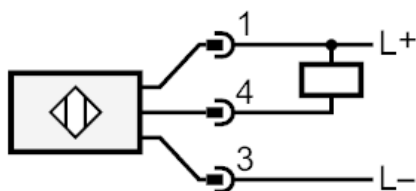
Electrical connection - plug

Cable: 0.3 m, PUR, black, Ø 3.7 mm; 3 x 0.25 mm²

Connector: 1 x M12; coding: A

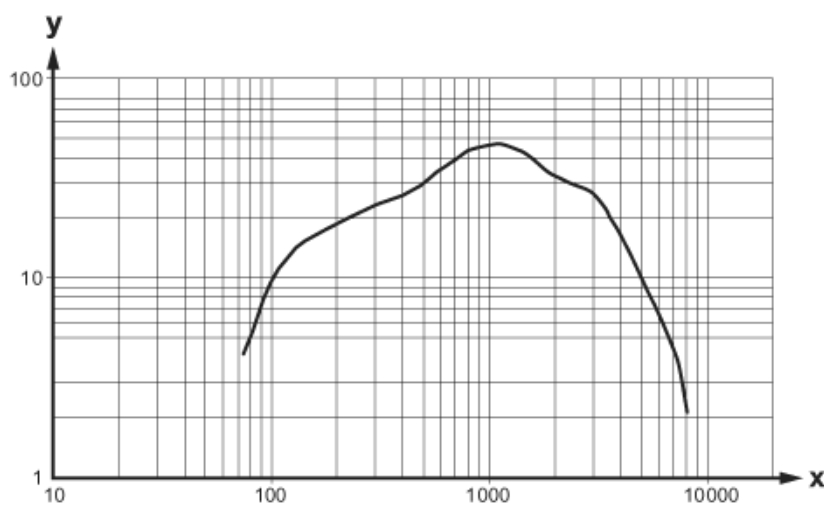


Connection



4 OUT / IO-Link

Diagrams and graphs



x: Abstand [mm]

y: Funktionsreservefaktor