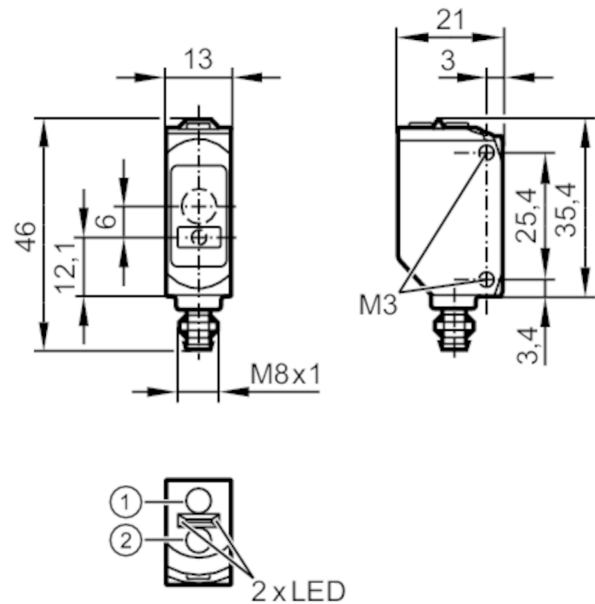


O6P705



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
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		yes (non-latching)

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Retro-reflective sensor

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Monitoring range		
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 - SSP 0	Generic Profiled Sensor
	Function	Device identification
	Function	Multiple switching signal
	Function	Device diagnosis
	Function	Teach 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
	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 1040.10 except for conformance with IEC 60825-1 Ed. 3, as described in Laser Notice No. 56, dated May 8, 2019.
MTTF	[years]	636
UL approval	Ta	-25...40 °C
	Enclosure type	Type 1
	voltage supply	Class 2
Mechanical data		
Weight	[g]	19.3
Housing		rectangular
Dimensions	[mm]	46 x 13 x 21

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Retro-reflective sensor

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Material	housing: ABS; PPSU; sealing: EPDM
Lens material	PMMA
Lens alignment	Side sensing
Tightening torque [Nm]	0.5; (screws)

Displays / operating elements

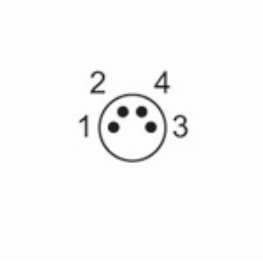
Display	Switching status	1 x LED, yellow
	Power	1 x LED, green

Remarks

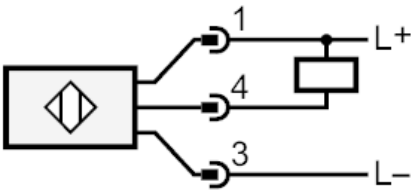
Remarks	cULus - Class 2 source required
Pack quantity	1 pcs.

Electrical connection - plug

Connector: 1 x M8; coding: A



Connection



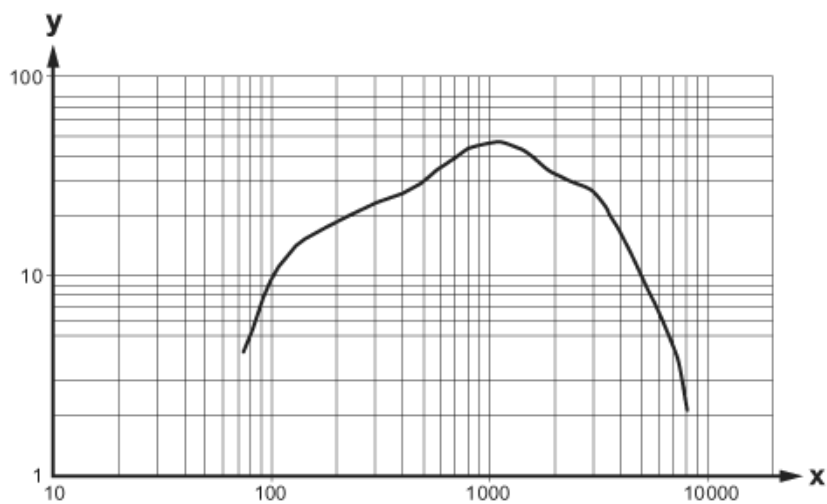
4 OUT / IO-Link



Retro-reflective sensor

O6PLFNKG/AS/4P

Diagrams and graphs



x: Abstand [mm]

y: Funktionsreservefaktor