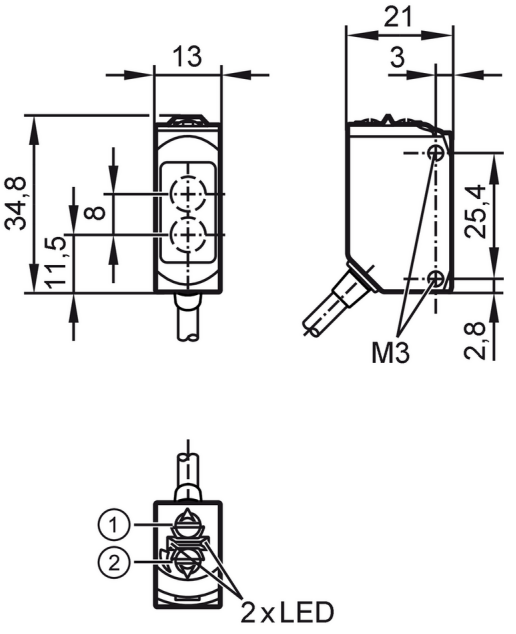
O6P301

Retro-reflective sensor

O6P-FPKG/0,30m/US



1 output function switch
1 potentiometer sensitivity
Receiver in upper lens
transmitter in lower lens

Product characteristics		
Type of light		red light
Housing		rectangular
Application		
Special feature		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)

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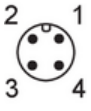
Monitoring range			
Range referred to prismatic reflector	[m]	0.05...5; (Prismatic reflector Ø 80 E20005)	
Range adjustable		yes	
Max. light spot diameter	[mm]	150	
Light spot dimensions refer to		at maximum range	
Polarization filter available		yes	
Operating conditions			
Ambient temperature	[°C]	-25...80	
Protection		IP 65; IP 67; IP 68; IP 69K	
Tests / approvals			
EMC		EN 60947-5-2	
MTTF	[years]	908	
UL approval		Ta	-25...40 °C
		Enclosure type	Type 1
		voltage supply	Class 2
		UL approval number	E006
Mechanical data			
Weight	[g]	51.7	
Housing		rectangular	
Dimensions	[mm]	34.8 x 13 x 21	
Material		housing: stainless steel (1.4404 / 316L); sealing: EPDM; plastics: PPSU	
Lens material		front lens:PMMA	
Lens alignment		Side sensing	
Tightening torque	[Nm]	1; (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

Cable: 0.3 m, PVC; 3 x 0.25 mm²

Connector: 1 x M12; coding: A; Contacts: 4



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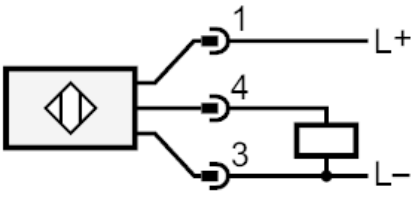
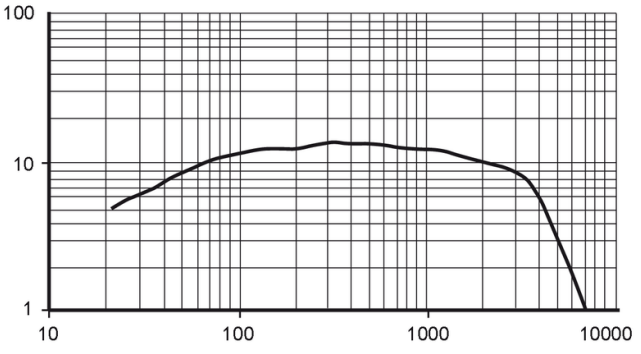
Connection



Diagrams and graphs

excess gain graph



x: distance [mm]

y: excess gain factor