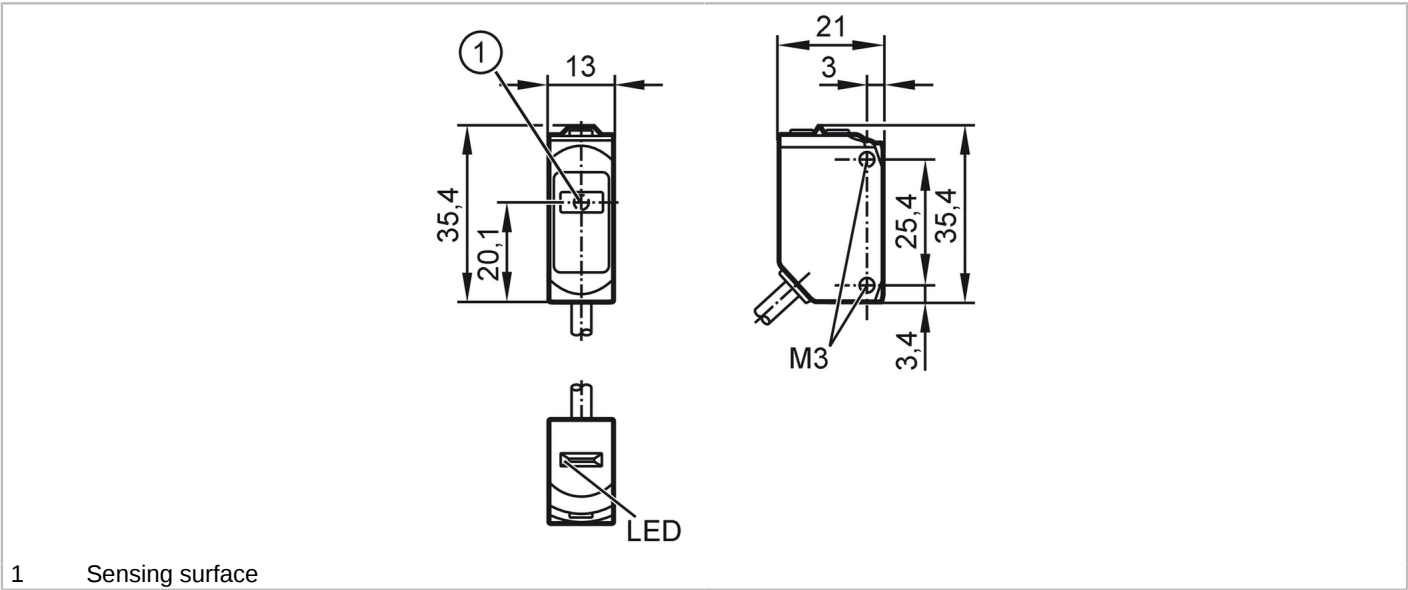


O6S701



Through-beam sensor transmitter

O6SLOOKG/0,30m/US



1 Sensing surface



Product characteristics		
Type of light		red light
Laser protection class		1
Housing		rectangular
Application		
Function principle		Through-beam sensor
Application		suited for use in the machine tool industry
Electrical data		
Operating voltage	[V]	10...30 DC
Current consumption	[mA]	10; (24 V)
Protection class		III
Reverse polarity protection		yes
Type of light		red light
Wave length	[nm]	650
Monitoring range		
Transmitter / receiver		transmitter
Range	[m]	< 15
Diameter of the smallest detectable object	[mm]	7; (15 m)
Max. light spot diameter	[mm]	35
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



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Profiles	Smart Sensor - SSP 0	Generic Profiled Sensor
	Function	Device identification
	Function	Device diagnosis
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
IO-Link functions (acyclical)		application specific tag; operating hours counter; switching cycles counter
Supported DeviceIDs	Type of operation	DeviceID
	default	523
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]		697
UL approval	Ta	-25...50 °C
	Enclosure type	Type 1
	voltage supply	Class 2
Mechanical data		
Weight [g]		33.2
Housing		rectangular
Dimensions [mm]		35.4 x 13 x 21
Material		housing: ABS orange; upper part of the housing: PPSU black; sealing: EPDM
Lens material		front lens:PMMA
Lens alignment		Side sensing
Tightening torque [Nm]		0.5; (screws)
Displays / operating elements		
Display	Power	1 x LED, green
Remarks		
Remarks		cULus - Class 2 source required
Pack quantity		1 pcs.

O6S701



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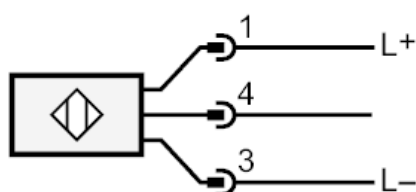
Electrical connection - plug

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

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

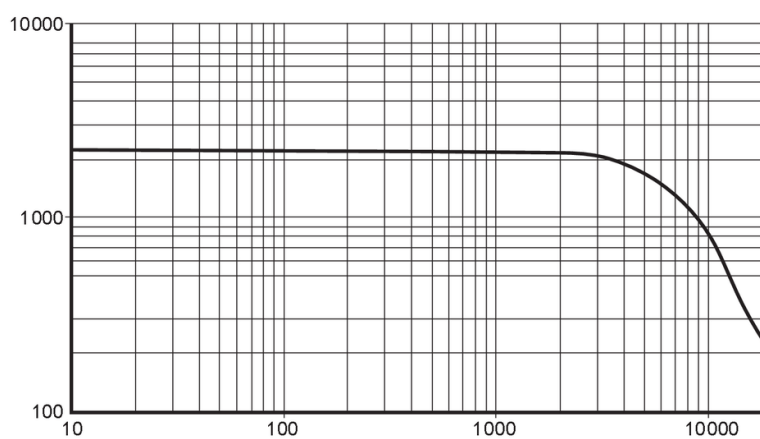


Connection



4 IO-Link

Diagrams and graphs



x: Abstand [mm]

y: Funktionsreservefaktor