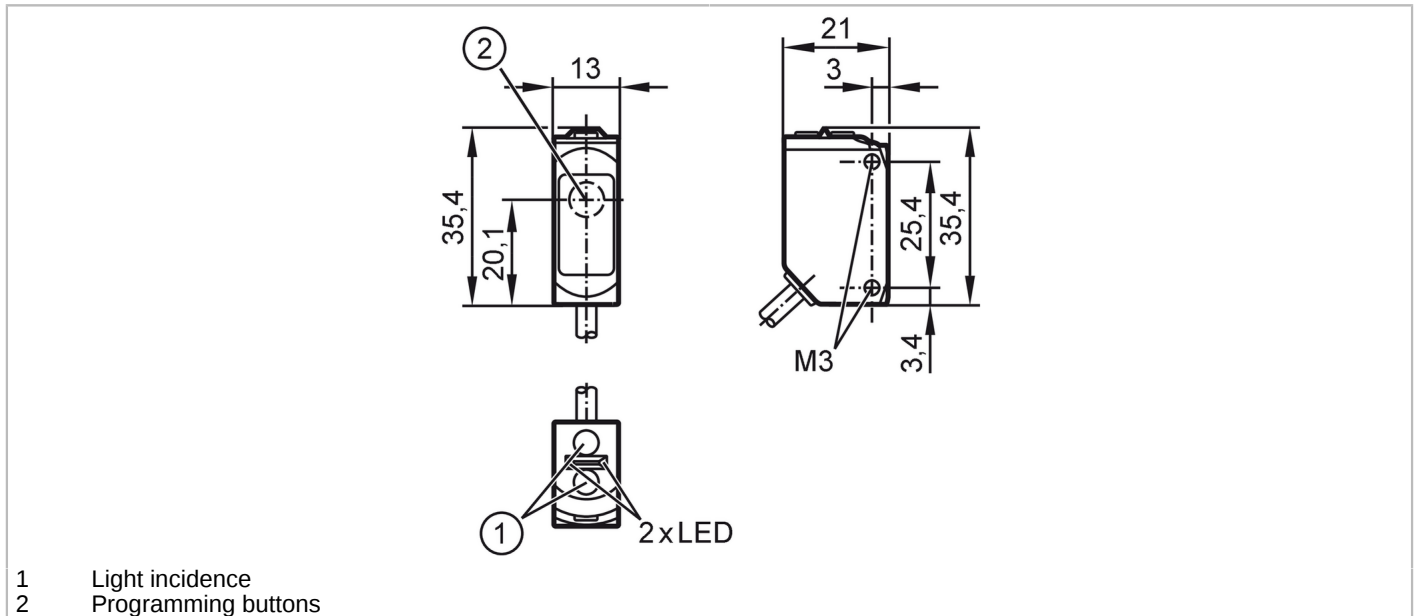


O6E701



Through-beam sensor receiver

O6ELFPKG/0,30m/US



Product characteristics	
Type of light	red light
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]	13; (24 V)
Protection class	III
Reverse polarity protection	yes
Type of light	red light
Wave length [nm]	650
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
Type of short-circuit protection	yes (non-latching)
Monitoring range	
Transmitter / receiver	receiver
Range [m]	15
Diameter of the smallest detectable object [mm]	7; (15 m)

O6E701



Through-beam sensor receiver

O6ELFPKG/0,30m/US

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	524
Operating conditions		
Ambient temperature [°C]	-10...60	
Protection	IP 65; IP 67	
Tests / approvals		
EMC	EN 60947-5-2	
MTTF [years]	1168	
UL approval	Ta	-25...50 °C
	Enclosure type	Type 1
	voltage supply	Class 2
Mechanical data		
Weight [g]	33.3	
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	Switching status	1 x LED, yellow
	Power	1 x LED, green
Remarks		
Remarks	cULus - Class 2 source required	
Pack quantity	1 pcs.	

O6E701



Through-beam sensor receiver

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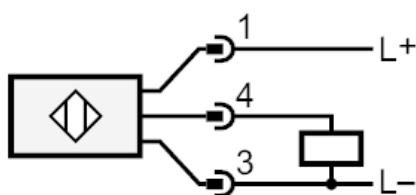
Electrical connection

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

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



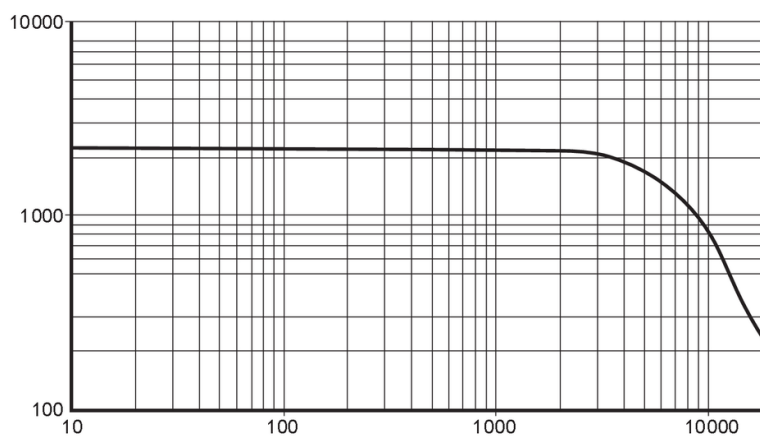
Connection



4

OUT / IO-Link

Diagrams and graphs



x: Abstand [mm]

y: Funktionsreservfaktor