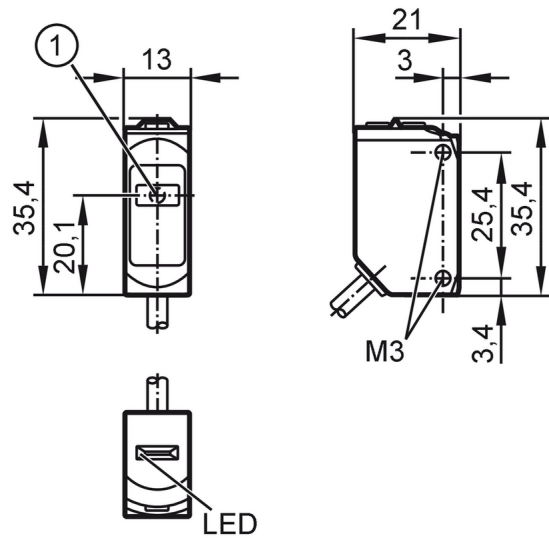


O6S700



Through-beam sensor transmitter

O6SLOOKG



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

O6S700



Through-beam sensor transmitter

O6SLOOKG

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]		854
UL approval	Ta	-25...60 °C
	Enclosure type	Type 1
	voltage supply	Class 2
	File number UL	E174191

Mechanical data

Weight [g]	59.8
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

Displays / operating elements

Display	Power	1 x LED, green
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Remarks

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

O6S700



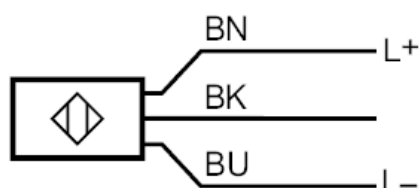
Through-beam sensor transmitter

O6SLOOKG

Electrical connection

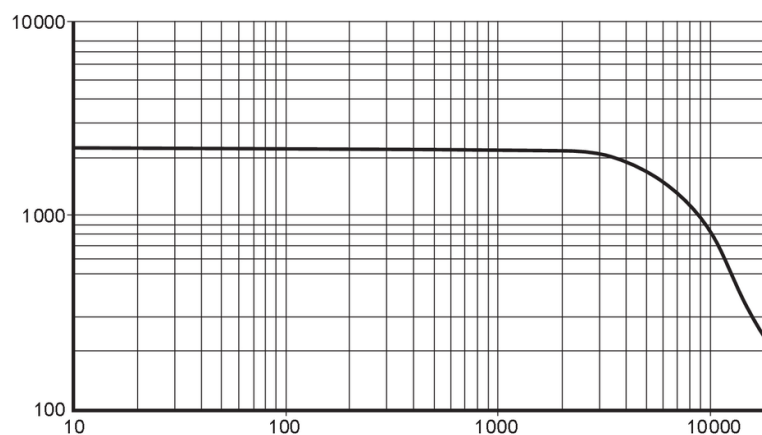
Cable: 2 m, PUR, black, Ø 3.7 mm; 3 x 0.25 mm²

Connection



BK OUT / IO-Link
Core colors :
BN = brown
BK = black
BU = blue

Diagrams and graphs



x: Abstand [mm]

y: Funktionsreservefaktor