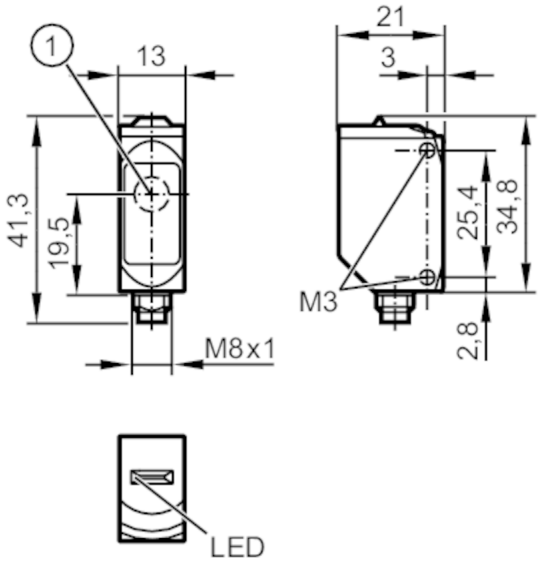
O6S305

Through-beam sensor transmitter

O6S-OOKG/AS/4P



1: Sensing surface

Product characteristics			
Type of light		red light	
Housing		rectangular	
Application			
Function principle		Through-beam sensor	
Electrical data			
Operating voltage	[V]	10...30 DC	
Current consumption	[mA]	11; ((24 V))	
Protection class		III	
Type of light		red light	
Wave length	[nm]	633	
Monitoring range			
Transmitter / receiver		transmitter	
Range	[m]	< 10	
Max. light spot diameter	[mm]	300	
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
SIO mode		yes	
Required master port class		A	

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Min. process cycle time	[ms]	2.5	
IO-Link process data (cyclical)		**Function**	**bit length**
		process value	8
IO-Link functions (acyclical)		application specific tag; operating hours counter; switching cycles counter	
Supported DeviceIDs		**Type of operation**	**DeviceID**
		default	420
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]	1239	
UL approval		Ta	-25...40 °C
		Enclosure type	Type 1
		voltage supply	Class 2
		UL approval number	E011
Mechanical data			
Weight	[g]	33.8	
Housing		rectangular	
Dimensions	[mm]	34.8 x 13 x 21	
Material		housing: stainless steel (1.4404 / 316L); plastics: PPSU; sealing: EPDM	
Lens material		PMMA	
Lens alignment		Side sensing	
Tightening torque	[Nm]	1; (screws)	
Displays / operating elements			
Display		Power	1 x LED, green
Remarks			
Remarks		cULus - Class 2 source required	
Pack quantity		1 pcs.	
Electrical connection			

Connector: 1 x M8; coding: A

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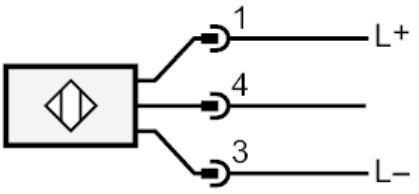
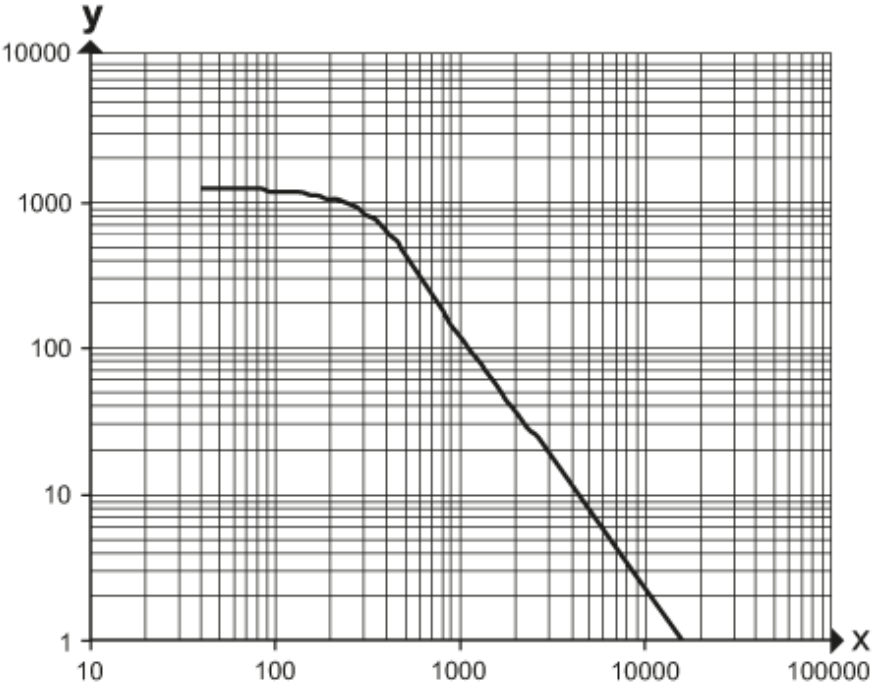
Connection



4	IO-Link

Diagrams and graphs

excess gain graph



x: distance [mm]

y: excess gain factor