



Through-beam sensor receiver

O6ELFNKG/0,30m/US



- 1 Light incidence
- 2 programming buttons



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]	13; (24 V)
Protection class		III
Reverse polarity protection		yes
Type of light		red light
Wave length	[nm]	650
Outputs		
Electrical design		NPN
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		pulsed
Detection zone		
Transmitter / receiver		receiver
Range	[m]	15



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Diameter of the smallest detectable object	[mm]	7; (15 m)
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Interfaces

Communication interface	IO-Link	
Transmission type	COM2 (38,4 kBaud)	
IO-Link revision	1.1	
SDCI standard	IEC 61131-9	
Profiles	Smart Sensor: Device Identification; Device Diagnosis; Teach Channel; Switching Channel	
SIO mode	yes	
Required master port type	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

Mechanical data

Weight	[g]	33.2
Housing	rectangular	
Dimensions	[mm]	35.4 x 13 x 21
Materials	housing: ABS; PPSU; Sealing: EPDM	
Lens material	PMMA	
Lens alignment	side lens	
Tightening torque	[Nm]	0.5; (screws)

Displays / operating elements

Display	switching status	1 x LED, yellow
	operation	1 x LED, green

Remarks

Remarks	operating voltage "supply class 2" according to cULus	
Pack quantity	1 pcs.	

O6E704



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Electrical connection

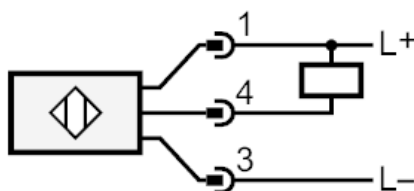
Cable: 0.3 m, PUR, black, Ø 3.7 mm; 3 x 0.25 mm²

Electrical connection - plug

Connector: 1 x M12; coding: A

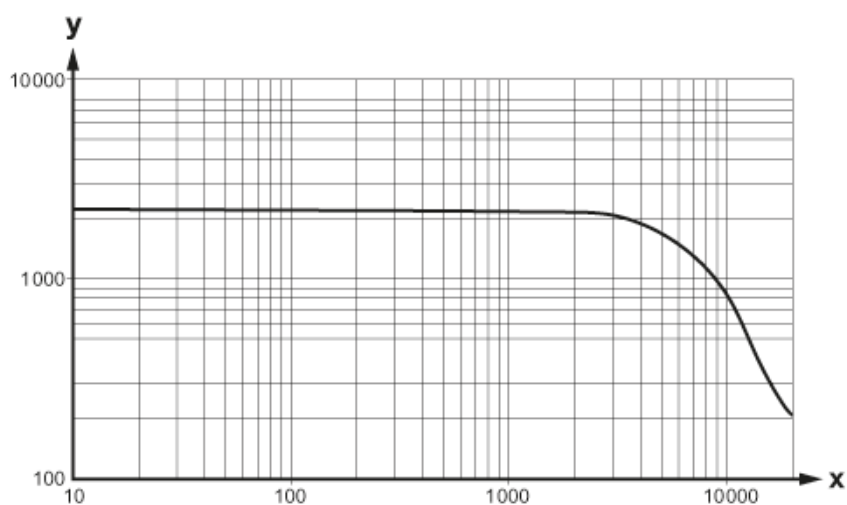


Connection



4 OUT / IO-Link

Diagrams and graphs



x: Abstand [mm]

y: Funktionsreservfaktor