

O6E700



Through-beam sensor receiver

O6ELFPKG



- 1 Light incidence
2 Programming buttons



Product characteristics

Type of light	red light
Housing	rectangular

Application

Function principle	Through-beam sensor
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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

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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 - 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]	1134
UL approval	Ta	-25...60 °C
	Enclosure type	Type 1
	voltage supply	Class 2
	File number UL	E174191

Mechanical data

Weight	[g]	59.5
Housing	rectangular	
Dimensions	[mm]	35.4 x 13 x 21
Material	housing: ABS; PPSU; sealing: EPDM	
Lens material	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.	

O6E700



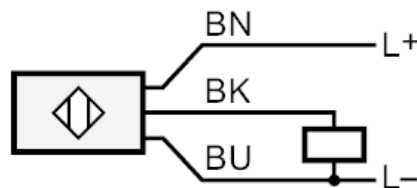
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Electrical connection

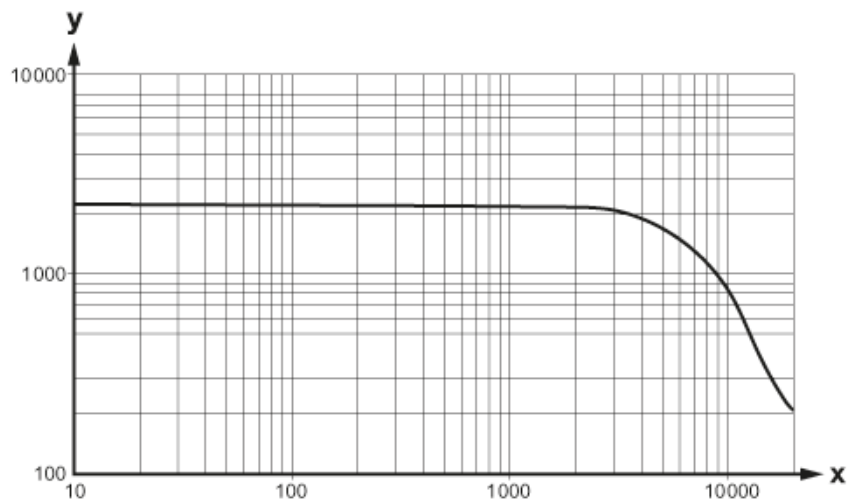
Cable: 2 m, PUR, black, Ø 3.7 mm; 3 x 0.25 mm²

Connection



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

Diagrams and graphs



x: Abstand [mm]

y: Funktionsreservefaktor