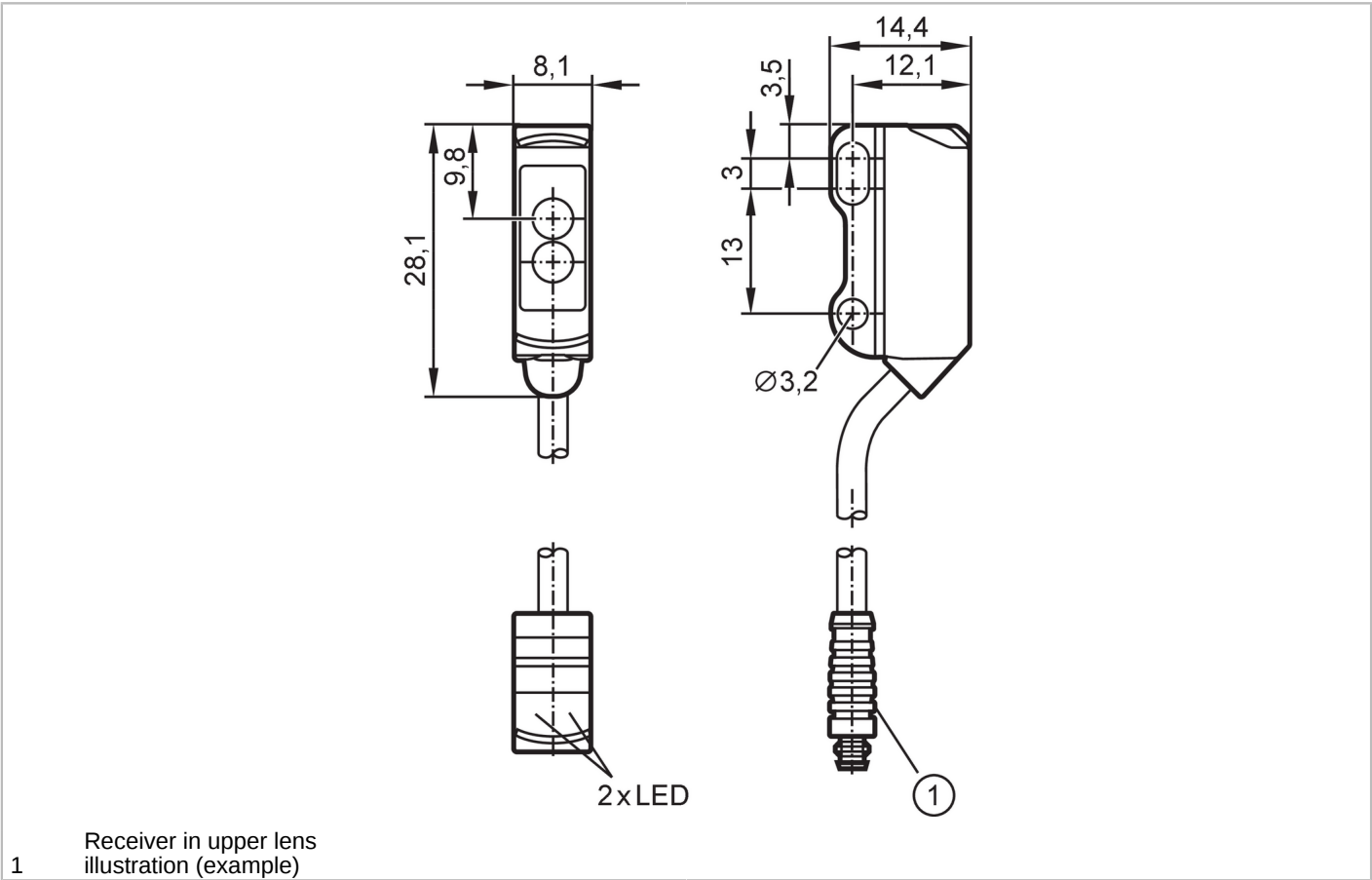




Through-beam sensor receiver

O8E-FPKG/IO-Link/0,30M/AS/3P



1 Receiver in upper lens illustration (example)



Product characteristics		
Type of light		red light
Housing		rectangular
Application		
Function principle		Through-beam sensor
Application		For applications in robotics, assembly and handling technology
Electrical data		
Operating voltage	[V]	10...30 DC
Current consumption	[mA]	15; ((24 V))
Protection class		III
Reverse polarity protection		yes
Type of light		red light
Wave length	[nm]	633
Outputs		
Electrical design		PNP
Output function		light-on/dark-on mode; (programmable)
Max. voltage drop switching output DC	[V]	2.5
Permanent current rating of switching output DC	[mA]	100



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Switching frequency DC	[Hz]	1000
Short-circuit protection		yes
Type of short-circuit protection		yes (non-latching)
Monitoring range		
Transmitter / receiver		receiver
Range	[m]	< 3
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	1091
Operating conditions		
Ambient temperature	[°C]	-25...60
Protection		IP 65; IP 67
Tests / approvals		
EMC		EN 60947-5-2
MTTF	[years]	1151
UL approval	Ta	-25...60 °C
	Enclosure type	Type 1
	voltage supply	Limited Voltage/Current
	UL approval number	E017
	File number UL	E174191
Mechanical data		
Weight	[g]	21
Housing		rectangular
Dimensions	[mm]	28.1 x 8.1 x 14.4
Material		housing: ABS; rear of the housing: stainless steel (1.4404 / 316L)
Lens material		front lens:PMMA
Lens alignment		Side sensing

O8E212



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Displays / operating elements

Display	Switching status	1 x LED, yellow
	Power	1 x LED, green

Remarks

Pack quantity	1 pcs.
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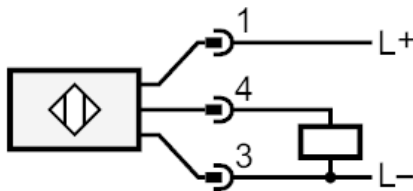
Electrical connection

Cable: 0.3 m, PVC, black, Ø 2.9 mm; 3 x 0.08 mm²

Connector: 1 x M8; coding: A; Contacts: 3

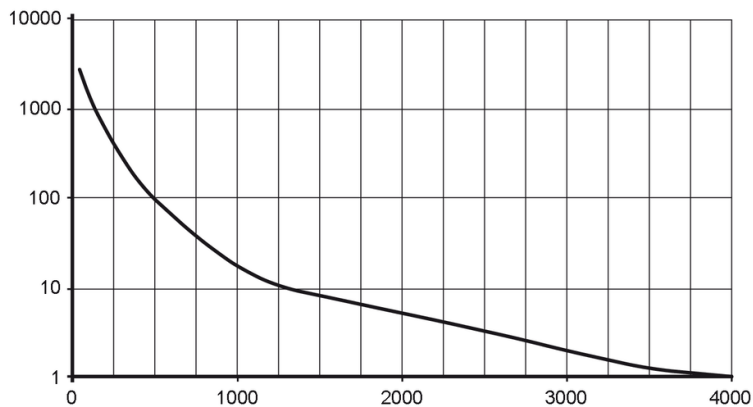


Connection



Diagrams and graphs

excess gain graph



x: distance [mm]
y: excess gain factor