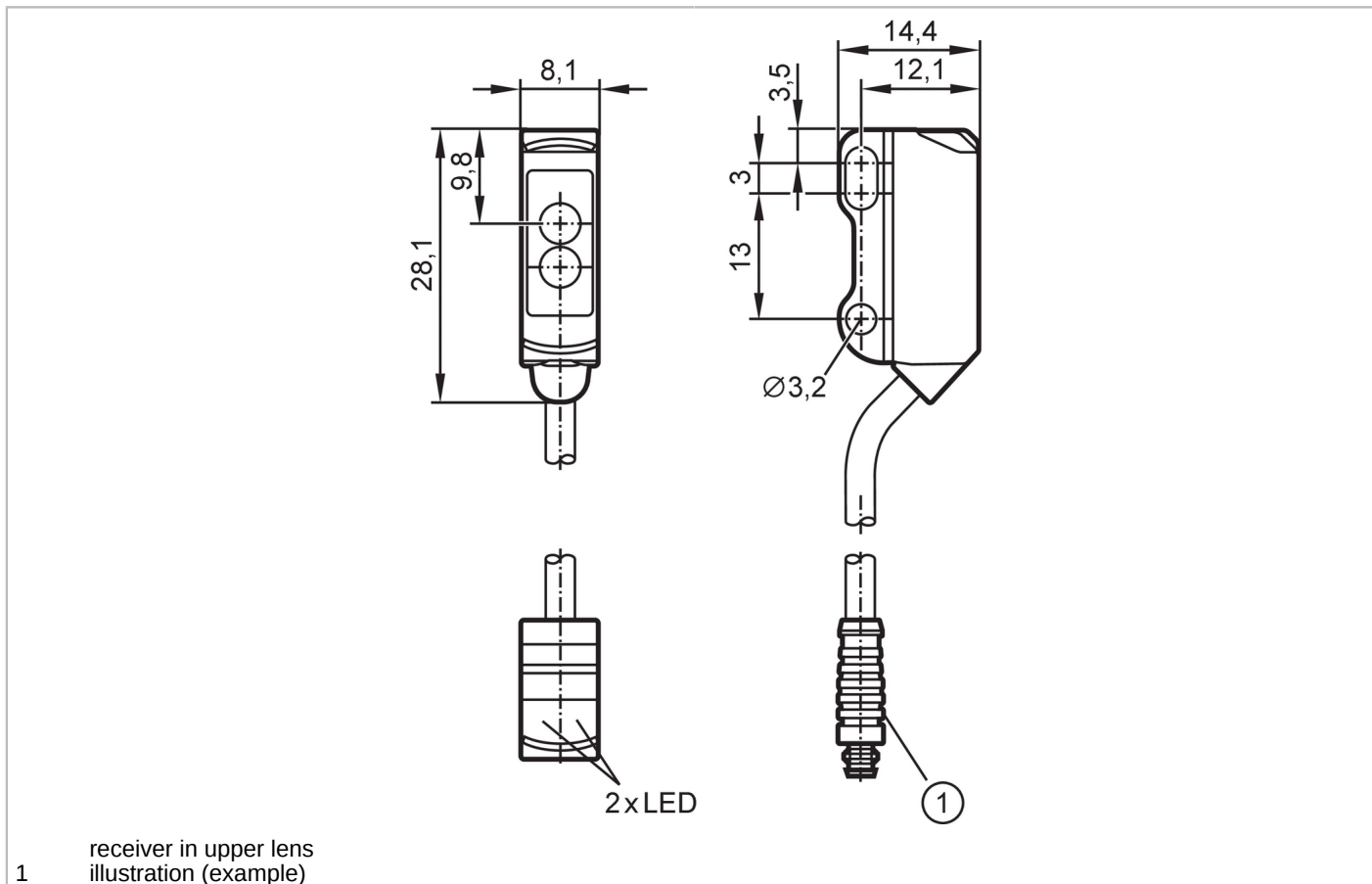


O8E205



Through-beam sensor receiver

O8E-DNKG/0,30M/AS/4P



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	NPN
Output function	dark-on mode
Max. voltage drop switching output DC [V]	2.5
Permanent current rating of switching output DC [mA]	100

O8E205



Through-beam sensor receiver

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Switching frequency DC	[Hz]	1000
Short-circuit protection		yes
Type of short-circuit protection		pulsed

Detection zone

Transmitter / receiver		receiver
Range	[m]	< 3

Operating conditions

Ambient temperature	[°C]	-25...60
Protection		IP 65; IP 67

Tests / approvals

EMC		EN 60947-5-2
MTTF	[years]	1152
UL approval	Ta	-25...60 °C
	Enclosure type	Type 1
	voltage supply	Limited Voltage/Current
	UL approval no.	E015
	File number UL	E174191

Mechanical data

Weight	[g]	23.1
Housing		rectangular
Dimensions	[mm]	28.1 x 8.1 x 14.4
Materials		housing: ABS; rear of the housing: stainless steel (316L/1.4404)
Lens material		front pane:PMMA
Lens alignment		side lens

Displays / operating elements

Display	switching status	1 x LED, yellow
	operation	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: 4

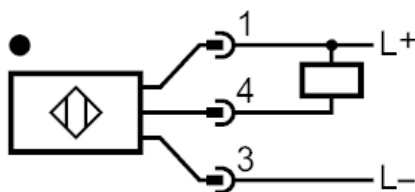




Through-beam sensor receiver

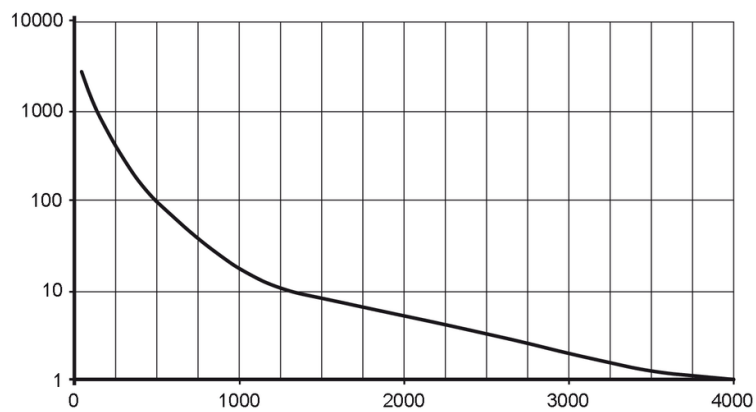
O8E-DNKG/0,30M/AS/4P

Connection



Diagrams and graphs

excess gain graph



x: distance [mm]

y: excess gain factor