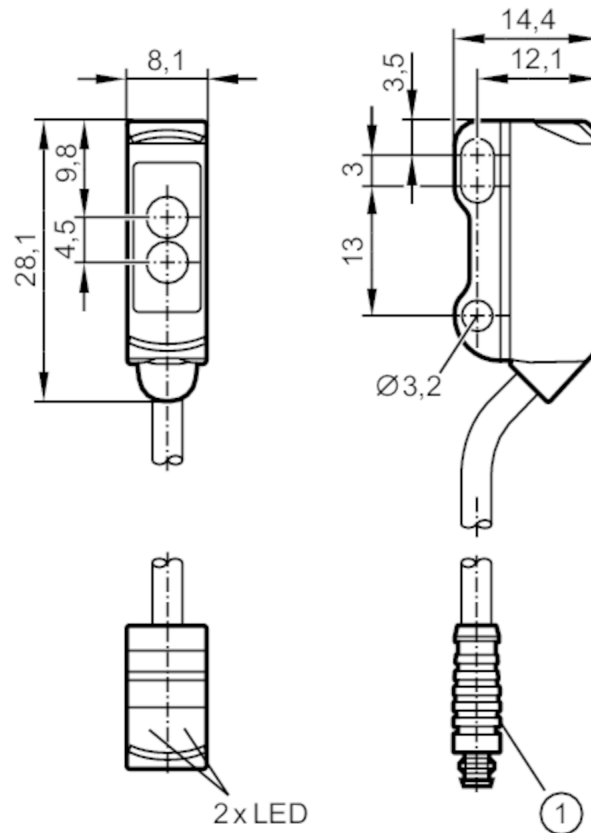


O8T205



Diffuse reflection sensor

O8T-HNKG/0,30M/AS/4P



1

receiver in upper lens
transmitter in lower lens
illustration (example)



Product characteristics

Type of light	red light
Housing	rectangular

Application

Function principle	Diffuse reflection sensor
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Electrical data

Operating voltage	[V]	10...30 DC
Current consumption	[mA]	20; ((24 V))
Protection class		III
Reverse polarity protection		yes
Type of light		red light
Wave length	[nm]	633

Outputs

Electrical design	NPN
Output function	light-on mode
Max. voltage drop switching output DC [V]	2.5



Diffuse reflection sensor

O8T-HNKG/0,30M/AS/4P

Permanent current rating of switching output DC	[mA]	100
Switching frequency DC	[Hz]	1000
Short-circuit protection		yes
Type of short-circuit protection		pulsed

Detection zone

Range	[mm]	0...180; (white paper 200 x 200 mm)
Max. light spot diameter	[mm]	18
Light spot dimensions refer to		at maximum range

Operating conditions

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

Tests / approvals

EMC		EN 60947-5-2
MTTF	[ANN]	1067
UL approval	Ta	-25...60 °C
	Enclosure type	Type 1
	подача напруги	Limited Voltage/Current
	UL Approval no.	E015
	File number UL	E174191

Mechanical data

Weight	[g]	23
Housing		rectangular
Dimensions	[mm]	28.1 x 8.1 x 14.4
Materials		housing: ABS; stainless steel (1.4404 / 316L)
Lens material		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

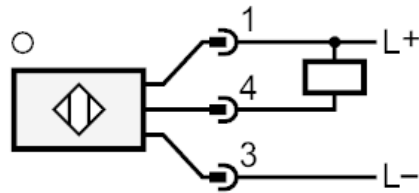
Connector: 1 x M8; coding: A



Diffuse reflection sensor

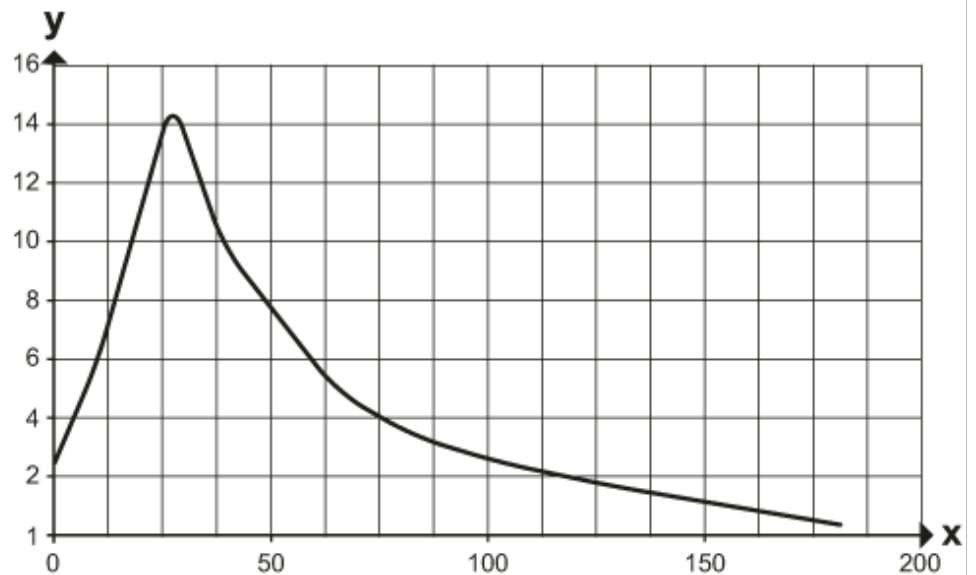
O8T-HNKG/0,30M/AS/4P

Connection



Diagrams and graphs

excess gain graph



x: distance [mm]

y: excess gain factor