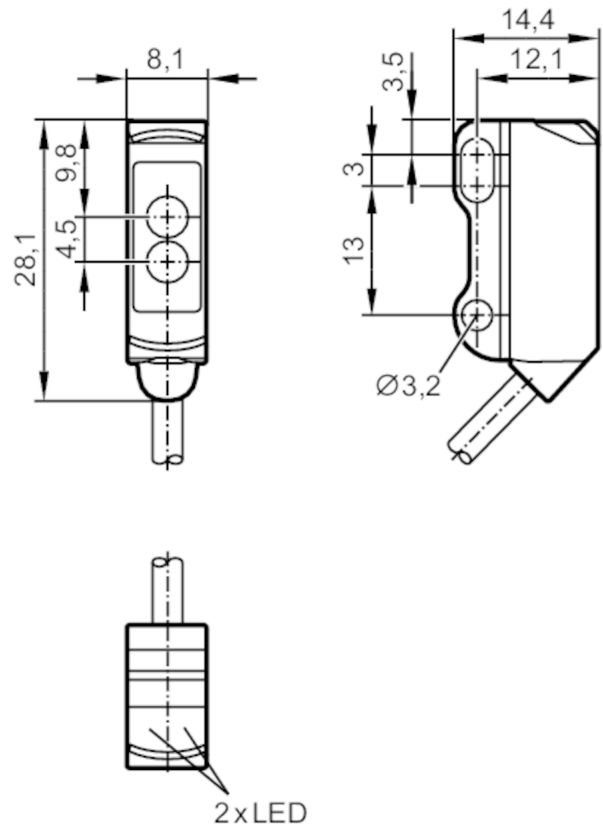


O8P201



Retro-reflective sensor

O8P-DNKG/2,0M



receiver in upper lens
transmitter in lower lens



Product characteristics		
Type of light		red light
Housing		rectangular
Application		
Special feature		polarisation filter
Function principle		Retro-reflective sensor
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		dark-on mode
Max. voltage drop switching output DC	[V]	2.5



Retro-reflective sensor

O8P-DNKG/2,0M

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 referred to prismatic reflector	[m]	0.02...1.8; (Prismatic reflector Ø 30 E20004)
Range adjustable		no
Max. light spot diameter	[mm]	120
Light spot dimensions refer to		at maximum range
Polarisation filter available		yes

Operating conditions

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

Tests / approvals

EMC		EN 60947-5-2
MTTF	[years]	1067
UL approval	Ta	-25...60 °C
	Enclosure type	Type 1
	power supply	Limited Voltage/Current
	UL Approval no.	E014
	File number UL	E174191

Mechanical data

Weight	[g]	37.4
Housing		rectangular
Dimensions	[mm]	28.1 x 8.1 x 14.4
Materials		housing: ABS; stainless steel (316L/1.4404)
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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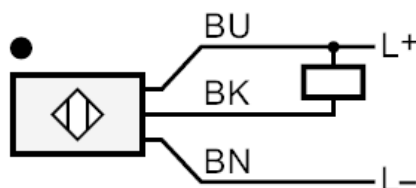
Retro-reflective sensor

O8P-DNKG/2,0M

Electrical connection

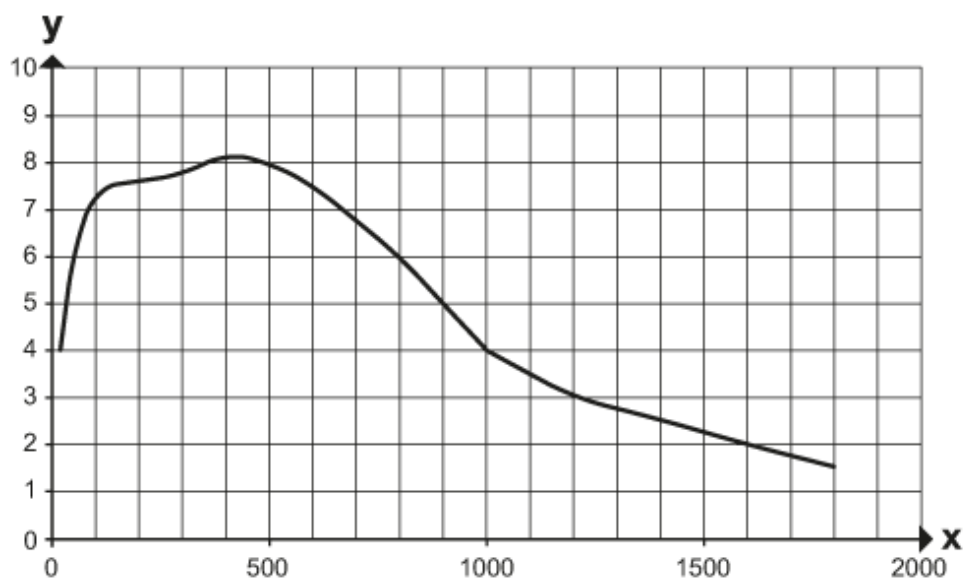
Cable: 2 m, PVC, black, $\varnothing$ 2.9 mm; 3 x 0.08 mm²

Connection



Diagrams and graphs

excess gain graph



x: distance [mm]

y: excess gain factor