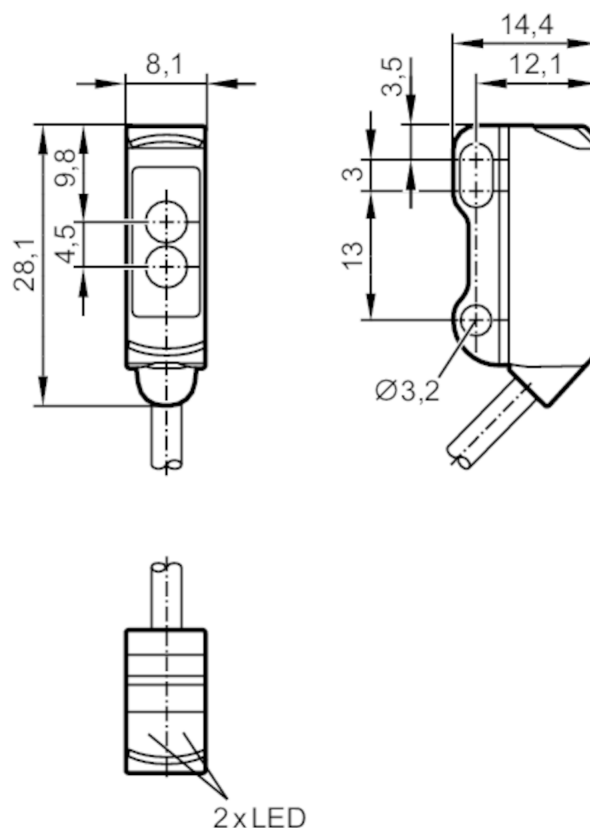


O8P200



Retro-reflective sensor

O8P-FPKG/IO-Link/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	PNP
Output function	light-on/dark-on mode; (programmable)
Max. voltage drop switching output DC	2.5



Retro-reflective sensor

O8P-FPKG/IO-Link/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		yes
Max. light spot diameter	[mm]	120
Light spot dimensions refer to		at maximum range
Polarisation filter available		yes

Interfaces

Communication interface		IO-Link
Transmission type		COM2 (38,4 kBaud)
IO-Link revision		1.1
SDCI standard		IEC 61131-9
Profiles		Smart Sensor: Device Identification; Device Diagnosis; Teach Channel; Switching Channel
SIO mode		yes
Required master port type		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	786

Operating conditions

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

Tests / approvals

EMC		EN 60947-5-2
MTTF	[years]	1054
UL approval	Ta	-25...60 °C
	Enclosure type	Type 1
	power supply	Limited Voltage/Current
	UL Approval no.	E016
	File number UL	E174191

Mechanical data

Weight	[g]	38.3
Housing		rectangular
Dimensions	[mm]	28.1 x 8.1 x 14.4
Materials		housing: ABS; stainless steel (316L/1.4404)
Lens material		PMMA



Retro-reflective sensor

O8P-FPKG/IO-Link/2,0M

Lens alignment	side lens
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Displays / operating elements

Display	switching status	1 x LED, yellow
	operation	1 x LED, green

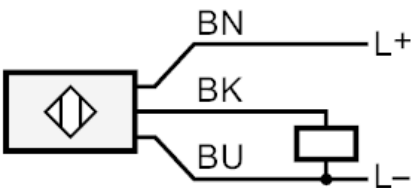
Remarks

Pack quantity	1 pcs.
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Electrical connection

Cable: 2 m, PVC, black, Ø 2.9 mm; 3 x 0.08 mm²

Connection



	Core colours :
BN	brown
BK	black
BU	blue

Diagrams and graphs

