

OGP283



Retro-reflective sensor

OGP-HNKG/US/CUBE



Product characteristics

Type of light	red light
Housing	rectangular with M18 thread

Application

Special feature	polarisation filter
Function principle	Retro-reflective sensor

Electrical data

Operating voltage	[V]	10...30 DC
Current consumption	[mA]	21
Protection class		III
Reverse polarity protection		yes
Type of light		red light
Wave length	[nm]	662

Outputs

Electrical design		NPN
Output function		light-on mode
Max. voltage drop switching output DC	[V]	2.5
Permanent current rating of switching output DC	[mA]	200
Switching frequency DC	[Hz]	1000
Short-circuit protection		yes
Type of short-circuit protection		pulsed
Overload protection		yes

Detection zone

Range referred to prismatic reflector	[m]	0.1...4; (Prismatic reflector Ø 80 E20005)
Range adjustable		no



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Max. light spot diameter	[mm]	160
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
	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	1146
Note	For further information please see the IODD PDF file under "Downloads"	

Operating conditions		
Ambient temperature	[°C]	-25...60
Storage temperature	[°C]	-40...60
Protection		IP 65; IP 67

Tests / approvals		
EMC	EN 60947-5-2	
MTTF	[years]	905
UL approval	Ta	-25...60 °C
	Enclosure type	Type 1
	power supply	Class 2
	File number UL	E174191

Mechanical data		
Weight	[g]	60
Housing		rectangular with M18 thread
Dimensions	[mm]	52.6 x 19 x 36
Thread designation		M18 x 1
Materials		diecast zinc; PEI
Lens material		PMMA
Lens alignment		side lens

Displays / operating elements		
Display	switching status	1 x LED, yellow
	operation	1 x LED, green

Accessories	
Items supplied	lock nut: 1

Remarks	
Pack quantity	1 pcs.

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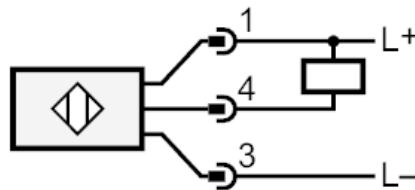
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Electrical connection

Connector: 1 x M12; coding: A



Connection



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OUT / IO-Link



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Diagrams and graphs

excess gain graph

