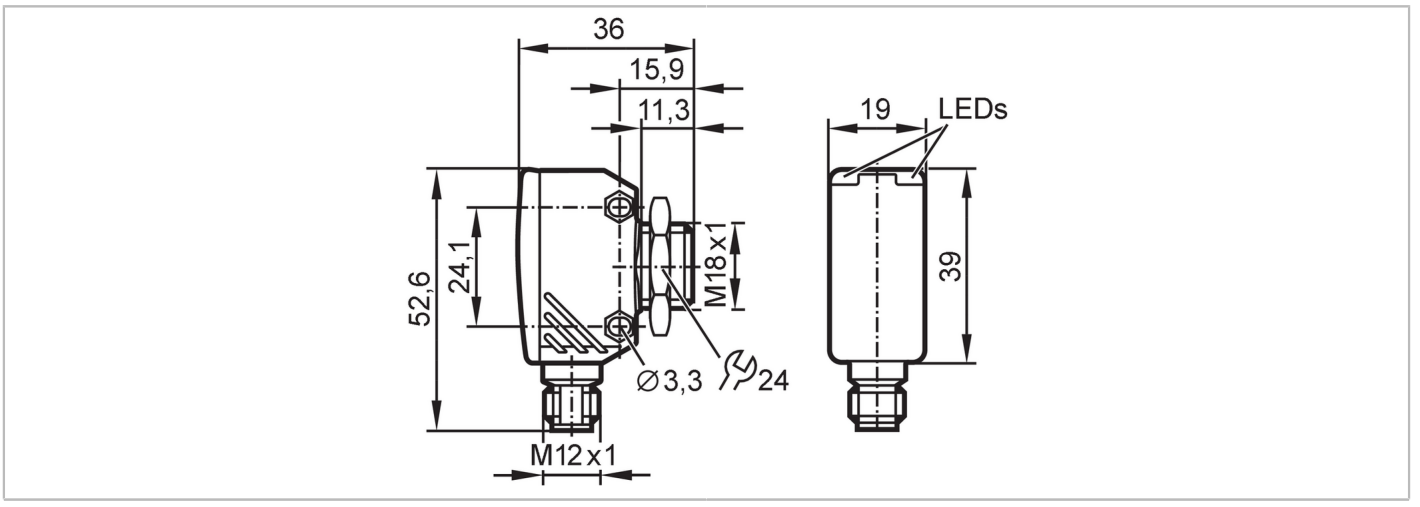
OGP281

Retro-reflective sensor

OGP-HPKG/US/CUBE



Product characteristics		
Type of light		red light
Housing		rectangular with M18 thread
Application		
Special feature		polarisation filter
Function principle		Retro-reflective sensor
Application		Industrial applications / factory automation
Electrical data		
Operating voltage	[V]	10...30 DC; ("supply class 2" to cULus)
Rated insulation voltage	[V]	32
Current consumption	[mA]	21
Protection class		III
Reverse polarity protection		yes
Max. power-on delay time	[ms]	300
Type of light		red light
Wave length	[nm]	662
Outputs		
Electrical design		PNP
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
Detection zone		
Range referred to prismatic reflector	[m]	0.1...4; (Prismatic reflector Ø 80 E20005)

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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 - SSP 0	Generic Profiled Sensor
		Common - I&D	Identification and Diagnosis
		Function	Multiple switching signal
		Function	Teach 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	1145
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
		voltage supply	Class 2
		File number UL	E174191
Mechanical data			
Weight	[g]	59	
Housing		rectangular with M18 thread	
Dimensions	[mm]	52.6 x 19 x 36	
Thread designation		M18 x 1	
Materials		housing: diecast zinc; rear of the housing: PEI	
Lens material		front pane:PMMA	
Lens alignment		side lens	
Displays / operating elements			
Display		switching status	1 x LED, yellow
		operation	1 x LED, green

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Accessories	
Items supplied	lock nut: 1

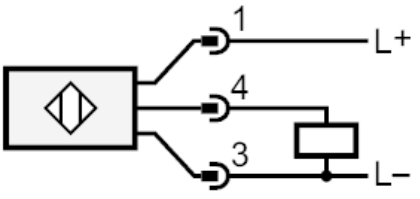
Remarks	
Remarks	operating voltage "supply class 2" according to cULus
Pack quantity	1 pcs.

Electrical connection

Connector: 1 x M12; coding: A; Contacts: 4



Connection



Diagrams and graphs

excess gain graph

