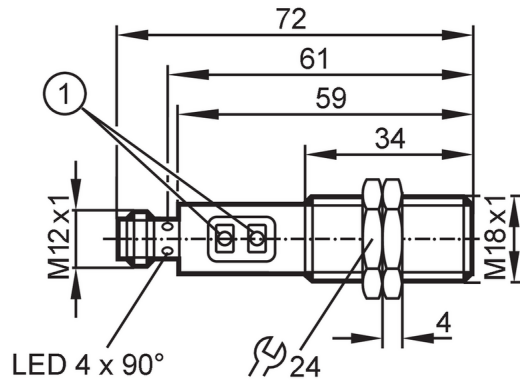


OGP700



Retro-reflective LASER sensor

OGPLFPKG/US100



1 Programming buttons



Product characteristics

Type of light	red light
Laser protection class	1
Housing	Threaded type

Application

Special feature	polarization filter
Function principle	Retro-reflective sensor
Application	Industrial applications

Electrical data

Operating voltage	[V]	10...36 DC
Current consumption	[mA]	15; (24 V)
Protection class		II
Reverse polarity protection		yes
Type of light		red light
Wave length	[nm]	655
Typ. lifetime	[h]	50000

Outputs

Electrical design		PNP
Output function		light-on/dark-on mode; (programmable)
Max. voltage drop switching output DC	[V]	2.5
Permanent current rating of switching output DC	[mA]	200
Switching frequency DC	[Hz]	2000
Short-circuit protection		yes
Type of short-circuit protection		yes (non-latching)
Overload protection		yes

Monitoring range

Range referred to prismatic reflector	[m]	0.2...15; (Prismatic reflector Ø 80 E20005)
Factory setting		dark-on mode

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Range adjustable		yes
Diameter of the smallest detectable object [mm]		3; (1 m; 15 m: 20)
Max. light spot diameter [mm]		78
Light spot dimensions refer to		at maximum range
Polarization filter available		yes

Operating conditions

Ambient temperature [°C]		-10...60
Protection		IP 65; IP 67

Tests / approvals

EMC	EN 60947-5-2	
Laser protection class		1
Notes on laser protection	Caution:	Laser light
	laser class:	1
		EN / IEC60825-1:2007
		EN / IEC60825-1:2014
		Complies with 21 CFR 1040.10 except for conformance with IEC 60825-1 Ed. 3, as described in Laser Notice No. 56, dated May 8, 2019.
MTTF [years]		600

Mechanical data

Weight [g]		63.5
Housing		Threaded type
Dimensions [mm]		M18 x 1 / L = 72
Thread designation		M18 x 1
Material		housing: stainless steel (1.4404 / 316L); operator interface: PA; sealing: EPDM; Pushbuttons: TPU (urethane)
Lens material		front lens:PMMA

Displays / operating elements

Display	Switching status	1 x LED, yellow
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Accessories

Items supplied		lock nuts: 2
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Remarks

Remarks		cULus - Class 2 source required
Pack quantity		1 pcs.

Electrical connection

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



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Connection

