

OGP701



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
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...2; (Prismatic reflector Ø 80 E20005)
Factory setting		dark-on mode

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Range adjustable	yes
Diameter of the smallest detectable object [mm]	1.5; (1 m; 2 m: 2)
Max. light spot diameter [mm]	5
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]	63.2
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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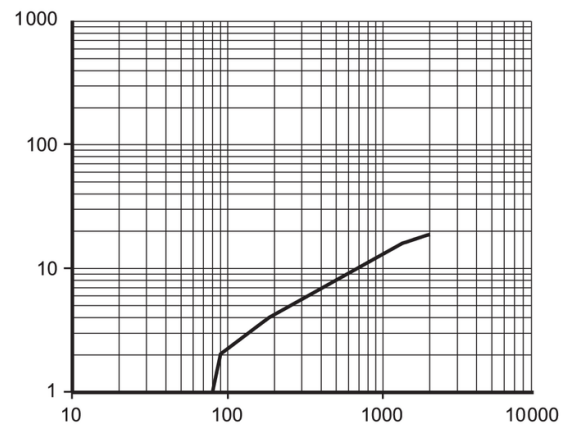
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Connection



Diagrams and graphs

excess gain graph



x: Abstand [mm]

y: Funktionsreservfaktor