

OGP700



Retro-reflective laser sensor

OGPLFPKG/US100



1 programming buttons



Application

Function principle	Retro-reflective sensor
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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	pulsed	
Overload protection	yes	

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Detection zone		
Range referred to prismatic reflector	[m]	0.2...15; (Prismatic reflector Ø 80 E20005)
Factory setting		dark-on mode
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
Polarisation 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; (IEC 60825-1 : 2007; Complies with 21 CFR 1040 except for deviations pursuant to Laser Notice No. 50, dated June 2007.)
MTTF	[years]	600
Mechanical data		
Weight	[g]	65
Housing		threaded type
Dimensions	[mm]	M18 x 1 / L = 72
Thread designation		M18 x 1
Materials		housing: stainless steel (1.4404 / 316L); operator interface: PA; Sealing: EPDM; pushbuttons: TPU
Lens material		PMMA
Displays / operating elements		
Display		switching status 1 x LED, yellow
Accessories		
Accessories (supplied)		lock nuts: 2 x
Remarks		
Remarks		operating voltage "supply class 2" according to cULus
Pack quantity		1 pcs.
Electrical connection		
Connector: 1 x M12		
		

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Connection

