



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	polarisation filter
Function principle	Retro-reflective sensor

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		pulsed
Overload protection		yes

Detection zone

Range referred to prismatic reflector	[m]	0.2...2; (Prismatic reflector Ø 80 E20005)
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Factory setting	dark-on mode
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
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
Notes on laser protection	Caution:	laser light
	laser class:	1
		EN / IEC60825-1:2007
		EN / IEC60825-1:2014
		Complies with 21 CFR 1040 except for deviations pursuant to Laser Notice No. 50, dated June 2007.
MTTF [years]		600

Mechanical data

Weight [g]	63.2
Housing	threaded type
Dimensions [mm]	M18 x 1 / L = 72
Thread designation	M18 x 1
Materials	housing: stainless steel (316L/1.4404); operator interface: PA; Sealing: EPDM; pushbuttons: TPU
Lens material	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	operating voltage "supply class 2" according to cULus
Pack quantity	1 pcs.

Electrical connection

Connector: 1 x M12; coding: A



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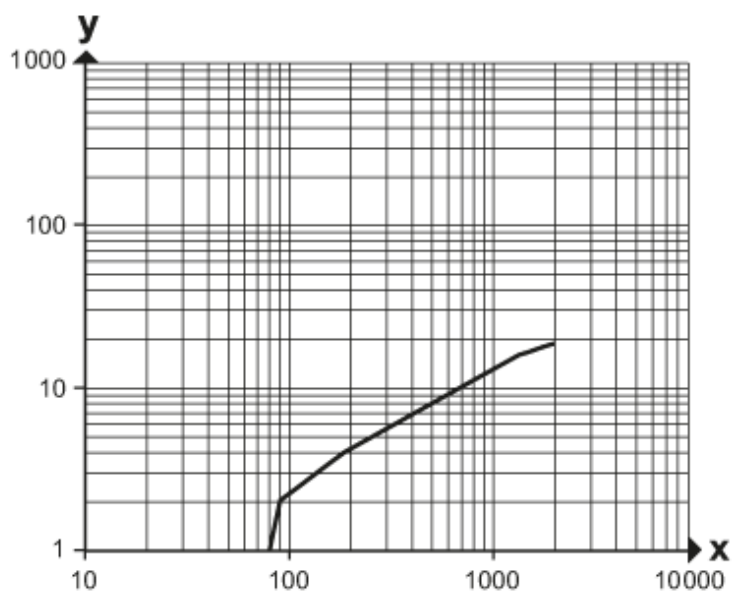
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Connection



Diagrams and graphs

excess gain graph



x: Abstand [mm]

y: Funktionsreservefaktor