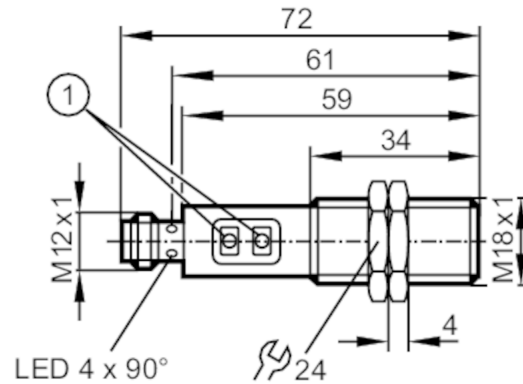


OGP701



Retro-reflective laser sensor

OGPLFPKG/US100



1 programming buttons



Product characteristics

Type of light	red light
Laser protection class	1
Housing	threaded type
Dimensions [mm]	M18 x 1 / L = 72

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

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Detection zone		
Range referred to prismatic reflector [m]	0.2...2; (Prismatic reflector Ø 80 E20005)	
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 (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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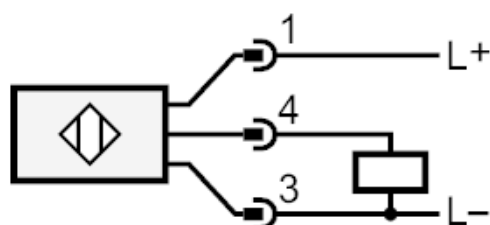


Retro-reflective laser sensor

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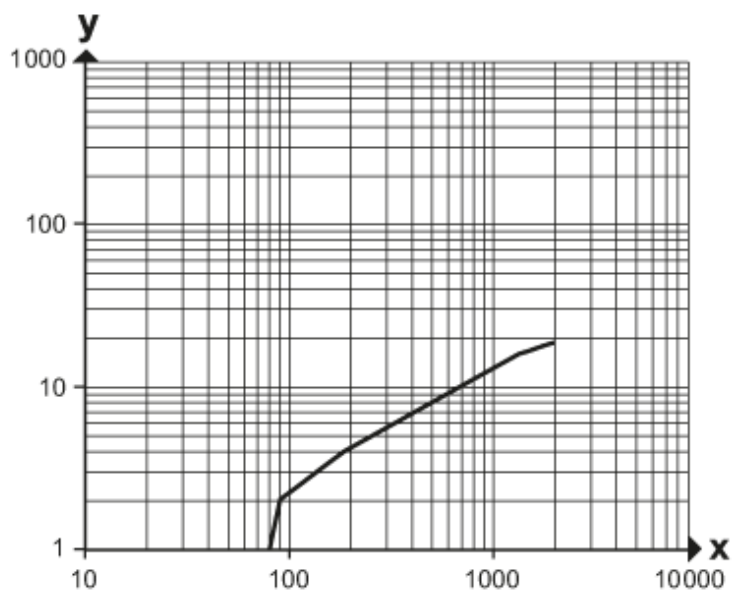


Connection



Diagrams and graphs

excess gain graph



x: Abstand [mm]

y: Funktionsreservfaktor