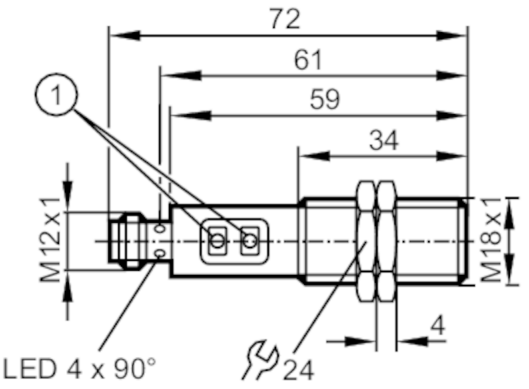
OGP701

Retro-reflective laser sensor

OGPLFPKG/US100



1 programming buttons

Application		
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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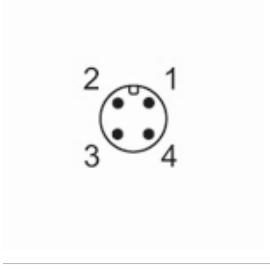
Detection zone			
Range referred to prismatic reflector	[m]	0.2...2; (Prismatic reflector Ø 80 E20005)	
Factory setting		dark-on mode	
Range adjustable		yes	
Diameter of the smallest detectable object	[mm]	1.5; (1 m; 2 m: 2)	
Max. light spot diameter	[mm]	5	
Light spot dimensions refer to		at maximum 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; (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]	64.6	
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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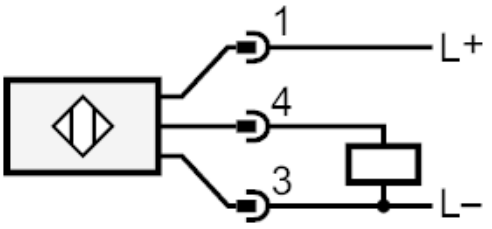
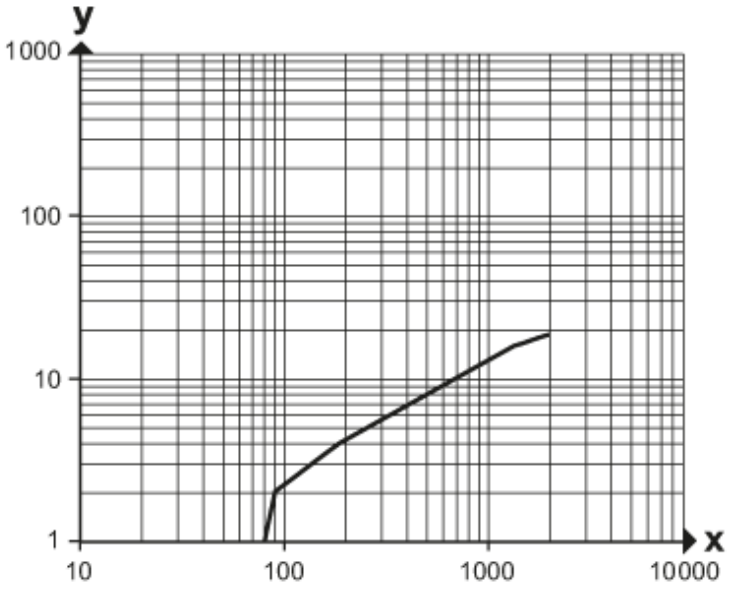
Connection



Diagrams and graphs

excess gain graph



x: Abstand [mm]

y: Funktionsreservefaktor