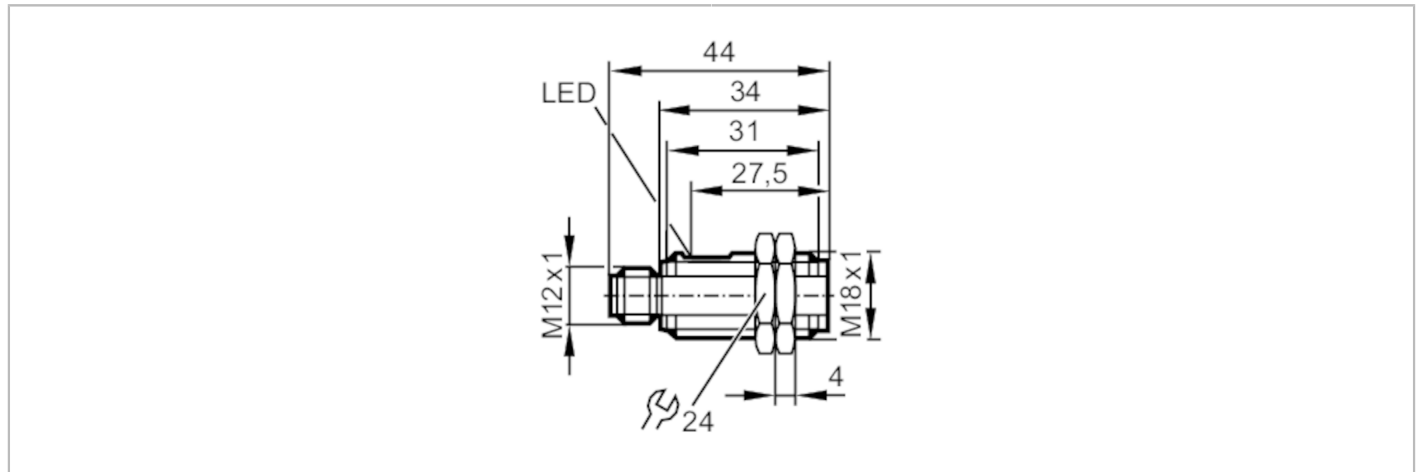


OGP101



Retro-reflective sensor

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Product characteristics		
Type of light		red light
Housing		threaded type
Dimensions	[mm]	M18 x 1 / L = 44
Application		
Special feature		polarisation filter
Function principle		Retro-reflective sensor
Electrical data		
Operating voltage	[V]	10...30 DC
Current consumption	[mA]	20
Protection class		III
Reverse polarity protection		yes
Type of light		red light
Wave length	[nm]	645
Outputs		
Electrical design		PNP
Output function		light-on mode
Max. voltage drop switching output DC	[V]	2.5
Permanent current rating of switching output DC	[mA]	200
Switching frequency DC	[Hz]	1000
Short-circuit protection		yes
Overload protection		yes

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Retro-reflective sensor

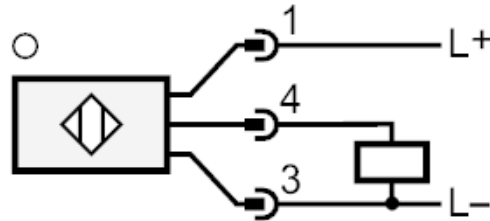
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Detection zone		
Range referred to prismatic reflector [m]	0.05...2.5; (Prismatic reflector Ø 80 E20005)	
Range adjustable	no	
Max. light spot diameter [mm]	200	
Light spot dimensions refer to	at maximum range	
Polarisation filter available	yes	
Operating conditions		
Ambient temperature [°C]	-25...60	
Protection	IP 67; (in conjunction with a corresponding connector)	
Tests / approvals		
EMC	EN 60947-5-2	
MTTF [years]	1173	
Mechanical data		
Weight [g]	14.6	
Housing	threaded type	
Dimensions [mm]	M18 x 1 / L = 44	
Thread designation	M18 x 1	
Materials	housing: ABS	
Lens material	PMMA	
Displays / operating elements		
Display	switching status	1 x LED, yellow
Accessories		
Accessories (supplied)	lock nuts: 2 x	
Remarks		
Pack quantity	1 pcs.	
Electrical connection		
Connector: 1 x M12		
		

Retro-reflective sensor

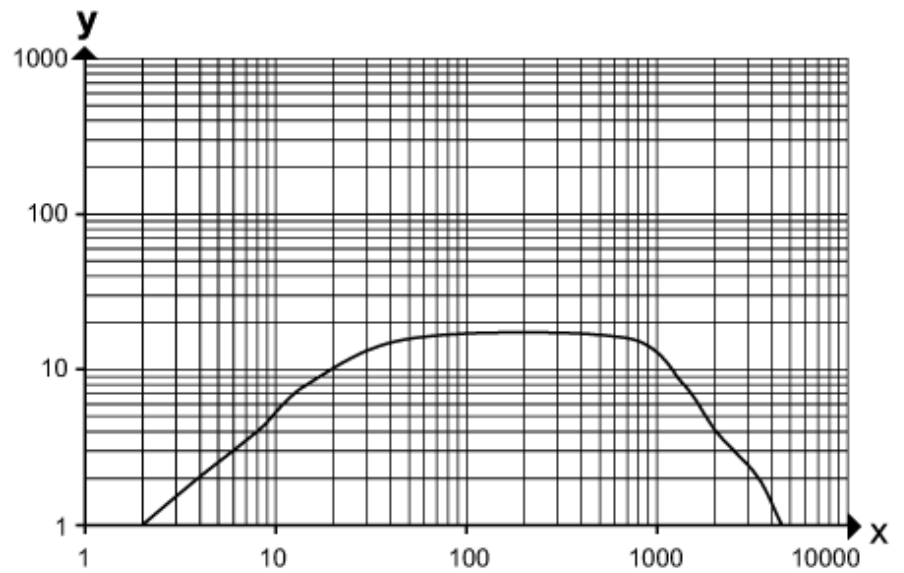
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Connection



Diagrams and graphs

excess gain graph



x: distance [mm]

y: excess gain factor