



Retro-reflective sensor

OGP-HPKG/US



Product characteristics

Type of light	red light
Housing	threaded type

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

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

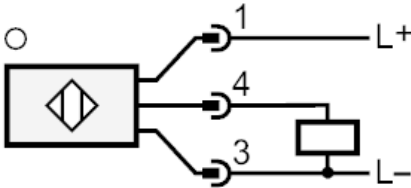
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Operating conditions		
Ambient temperature	[°C]	-25...60
Protection		IP 67; (in conjunction with a corresponding connector)
Tests / approvals		
EMC		EN 60947-5-2
MTTF	[years]	1173
Mechanical data		
Weight	[g]	14.6
Housing		threaded type
Dimensions	[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		
Items supplied		lock nuts: 2
Remarks		
Pack quantity		1 pcs.
Electrical connection		
Connector: 1 x M12; coding: A		
		

Connection




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Diagrams and graphs

excess gain graph



x: distance [mm]

y: excess gain factor