



Retro-reflective sensor

OGP-DNKG/US



Application

Function principle	Retro-reflective sensor
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Electrical data

Operating voltage [V]	10...30 DC
Current consumption [mA]	20
Protection class	III
Reverse polarity protection	yes
Type of light	red light

Outputs

Electrical design	NPN
Output function	dark-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

Operating conditions

Ambient temperature [°C]	-25...60
Protection	IP 67; (in conjunction with a corresponding connector)



Retro-reflective sensor

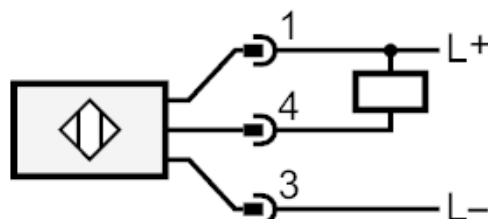
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Tests / approvals		
EMC	EN 60947-5-2	
MTTF	[years]	1161
Mechanical data		
Weight	[g]	15.6
Housing	threaded type	
Dimensions	[mm]	M18 x 1 / L = 44
Thread designation	M18 x 1	
Materials	housing: ABS	
Lens material	PMMA	
Displays / operating elements		
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



Connection





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Diagrams and graphs

excess gain graph



x: Abstand [mm]

y: Funktionsreservfaktor