

Retro-reflective sensor

OGPLFNKG/B4/V4A/US-100

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1 pushbutton

Product characteristics

Type of light	red light
Laser protection class	2
Housing	threaded type

Application

Special feature	Gold-plated contacts
Function principle	Retro-reflective sensor

Electrical data

Operating voltage	[V]	10...30 DC
Current consumption	[mA]	< 30; (operation; \$Einstellung: < 50 mA)
Protection class		II
Reverse polarity protection		yes
Type of light		red light
Wave length	[nm]	675
Typ. lifetime	[h]	50000

Outputs

Electrical design		NPN
Output function		light-on/dark-on mode; (parameterisable)
Max. voltage drop switching output DC	[V]	2.5
Max. voltage drop of function check output	[V]	3.5
Max. current load for function check output	[mA]	10
Permanent current rating of switching output DC	[mA]	200
Switching frequency DC	[Hz]	500
Short-circuit protection		yes
Type of short-circuit protection		pulsed
Overload protection		yes



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Detection zone		
Range	[m]	0.2...4; (Prismatic reflector Ø 80 E20005)
Range adjustable		yes
Diameter of the smallest detectable object	[mm]	1.5
Max. light spot diameter	[mm]	7
Light spot dimensions refer to		at maximum range
Operating conditions		
Ambient temperature	[°C]	-10...50
Protection		IP 67
Tests / approvals		
EMC	EN 60947-5-2	
Laser protection class		2
Notes on laser protection	Caution:	laser light
	pulse performance:	<= 2,2 mW
	Wave length:	675 nm
	frequency:	2,2 kHz
	Pulse length:	24 µs
	Do not stare into beam.	
	Avoid exposure to the laser light.	
	laser class:	2
		EN 60825-1
Mechanical data		
Housing		threaded type
Dimensions	[mm]	M18 x 1 / L = 72
Thread designation		M18 x 1
Materials		stainless steel (316L/1.4404); PBT
Lens material		PMMA
Displays / operating elements		
Display	switching status	1 x LED, yellow
	operation	1 x LED, green
	function	1 x LED, red
Accessories		
Items supplied		lock nuts: 2
Remarks		
Pack quantity		1 pcs.
Electrical connection		
Connector: 1 x M12; coding: A; Contacts: gold-plated		

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Connection



2 Function check output

Diagrams and graphs

excess gain graph

