



Retro-reflective laser sensor

OJPLFNKG/SO/AS



1 pushbutton



Product characteristics		
Type of light		red light
Laser protection class		1
Housing		rectangular
Application		
Special feature		polarisation filter
Function principle		Retro-reflective sensor
Electrical data		
Operating voltage	[V]	10...30 DC
Current consumption	[mA]	< 15
Protection class		III
Reverse polarity protection		yes
Type of light		red light
Wave length	[nm]	650
Typ. lifetime	[h]	50000



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Outputs		
Electrical design	NPN	
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	
Detection zone		
Range referred to prismatic reflector [m]	8; (Prismatic reflector 50 x 50 mm E20722)	
Range adjustable	yes	
Diameter of the smallest detectable object [mm]	2.5; (0,1 m; 2,5 m: 4; 5 m: 8)	
Max. light spot diameter [mm]	12	
Light spot dimensions refer to	at maximum range	
Polarisation filter available	yes	
Operating conditions		
Ambient temperature [°C]	-10...60	
Protection	IP 67	
Tests / approvals		
EMC	EN 60947-5-2	
Laser protection class	1	
Notes on laser protection	Caution:	laser light
	laser class:	1
		EN / IEC60825-1:2007
		EN / IEC60825-1:2014
		Complies with 21 CFR 1040 except for deviations pursuant to Laser Notice No. 50, dated June 2007.
MTTF [years]	725	
Mechanical data		
Weight [g]	28.9	
Housing	rectangular	
Dimensions [mm]	35 x 11 x 24	
Materials	housing: ABS; fixture: diecast zinc; LED window: SEPS; pushbutton: SEPS	
Lens material	glass	
Lens alignment	side lens	
Displays / operating elements		
Display	switching status	1 x LED, yellow
	operation	1 x LED, green
	function	1 x LED, red
Electronic lock	yes	

OJ5037



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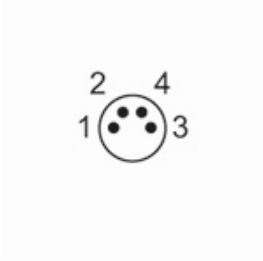
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Accessories	
Items supplied	Basic clip: 1, E20964
	screws: 2 x M3 x 16
	spring washers: 2
	Nuts: 2

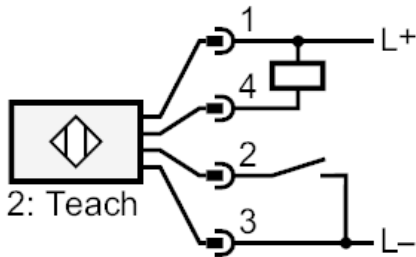
Remarks	
Remarks	operating voltage "supply class 2" according to cULus
Pack quantity	1 pcs.

Electrical connection

Connector: 1 x M8; coding: A



Connection





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Diagrams and graphs

excess gain graph

