

O5G500



Retro-reflective sensor for the detection of transparent objects

O5PGFAKG/US100



- 1 programming buttons
2 When a M5 mounting screw is used, the max. tightening torque is 2 Nm.



Application

Function principle Retro-reflective sensor

Electrical data

Operating voltage	[V]	10...36 DC; ("supply class 2" to cULus)
Current consumption	[mA]	< 50
Protection class		II
Reverse polarity protection		yes
Type of light		red light
Wave length	[nm]	624



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Outputs		
Electrical design	PNP/NPN; (automatic load detection PNP/NPN)	
Output function	light-on/dark-on mode; (programmable)	
Max. voltage drop switching output DC [V]	2.5	
Function check output	yes	
Max. voltage drop of function check output [V]	2.5	
Max. current load for function check output [mA]	50	
Permanent current rating of switching output DC [mA]	200	
Switching frequency DC [Hz]	1500	
Short-circuit protection	yes	
Type of short-circuit protection	pulsed	
Overload protection	yes	
Detection zone		
Range referred to prismatic reflector [m]	0...3; (Prismatic reflector 100 x 100 mm E20454)	
Range adjustable	yes	
Max. light spot diameter [mm]	80	
Light spot dimensions refer to	at maximum range	
Polarisation filter available	yes	
Operating conditions		
Ambient temperature [°C]	-25...60	
Protection	IP 67	
Tests / approvals		
EMC	EN 60947-5-2	
MTTF [years]	405	
Mechanical data		
Weight [g]	72	
Housing	rectangular	
Dimensions [mm]	56 x 18.2 x 46.8	
Materials	housing: PA; bezel: stainless steel; operator interface: TPU	
Lens material	PMMA	
Lens alignment	side lens	
Displays / operating elements		
Display	switching status	1 x LED, yellow
	function	1 x LED, red
Teach function	yes	
Electronic lock	yes	
Remarks		
Pack quantity	1 pcs.	

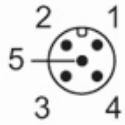
Connector: 1 x M12

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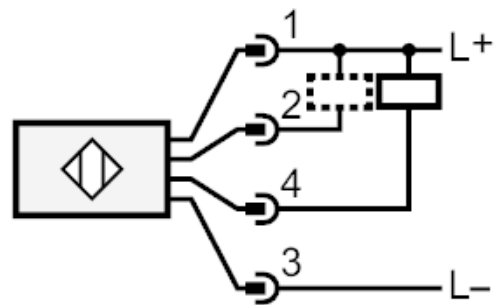
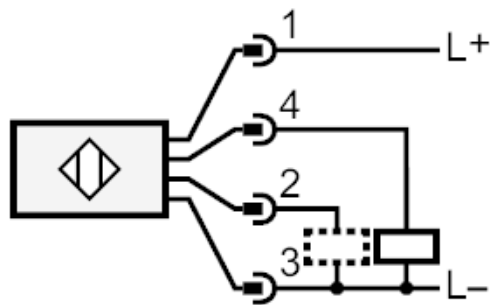


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Connection



2	Function check output
4	switching output
2+4	automatic load detection PNP/NPN
5	n.c. = not used



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Diagrams and graphs

excess gain graph

