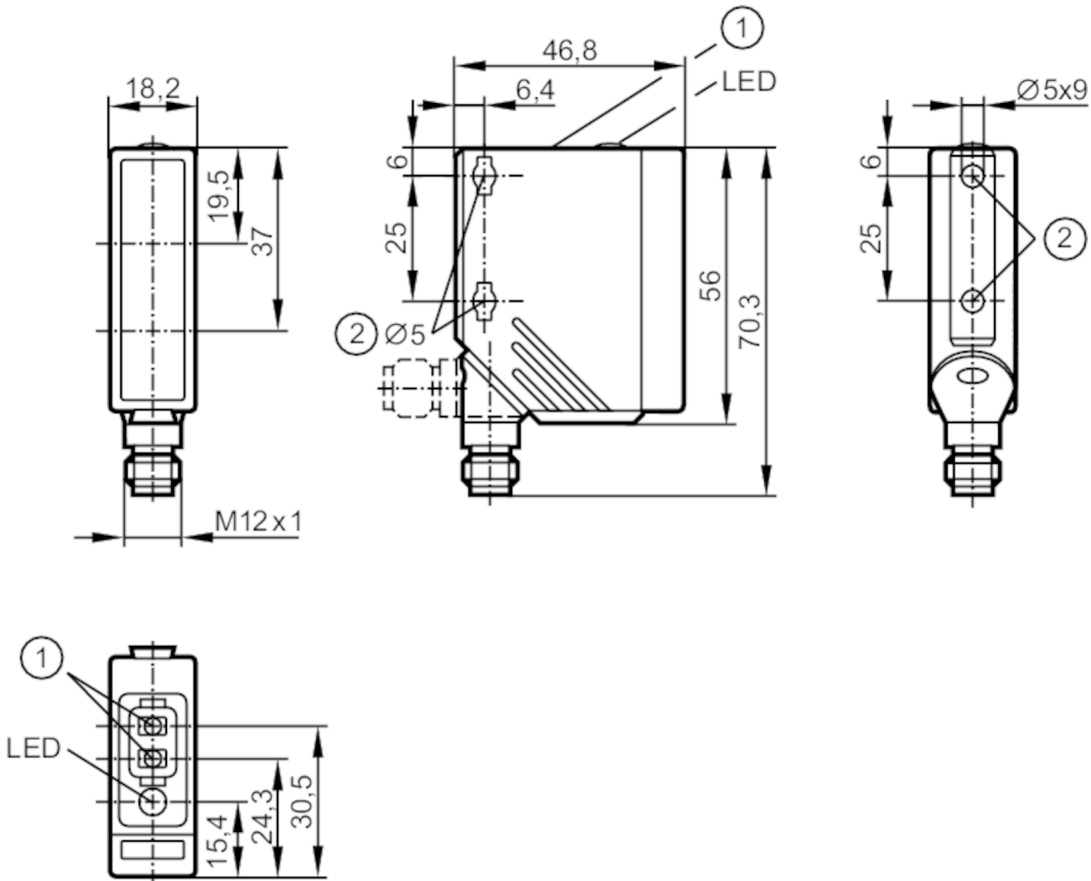


O5G501



Retro-reflective sensor for the detection of transparent objects

O5PGFAKG/US



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



Product characteristics		
Type of light		red light
Housing		rectangular
Application		
Special feature		polarisation filter; Function check output
Function principle		Retro-reflective sensor
Electrical data		
Operating voltage	[V]	10...36 DC
Current consumption	[mA]	< 50
Protection class		II
Reverse polarity protection		yes
Type of light		red light
Wave length	[nm]	624
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



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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	
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Mechanical data

Weight [g]		73.5
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

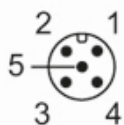
Pack quantity		1 pcs.
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Retro-reflective sensor for the detection of transparent objects

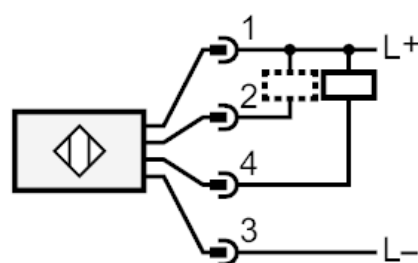
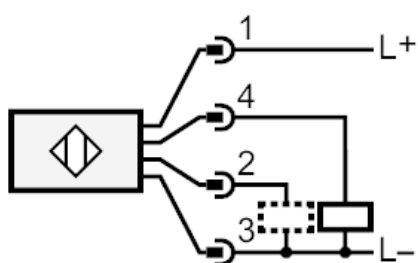
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Electrical connection

Connector: 1 x M12; coding: A



Connection



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



Retro-reflective sensor for the detection of transparent objects

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Diagrams and graphs

excess gain graph

