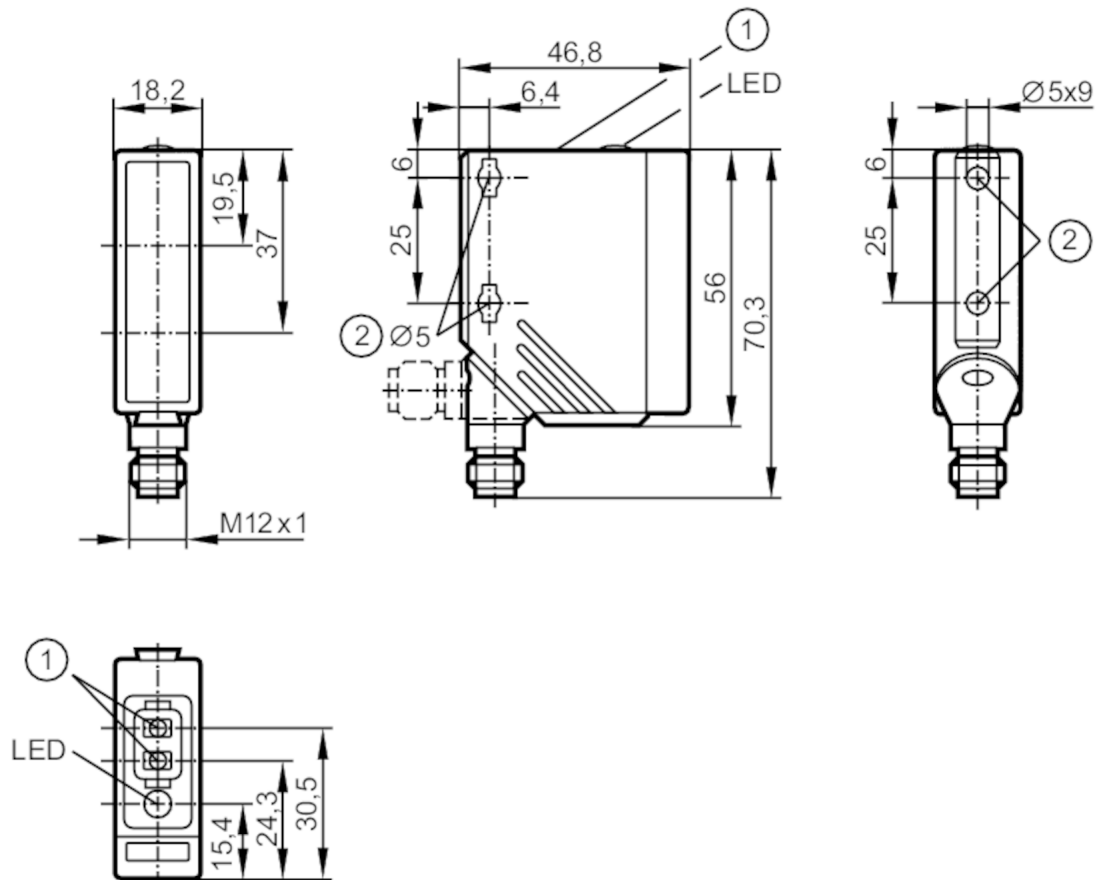


O5G500



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.



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; ("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

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
MTTF	[years]	405

Mechanical data

Weight	[g]	73
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

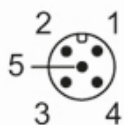
Pack quantity		1 pcs.
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Retro-reflective sensor for the detection of transparent objects

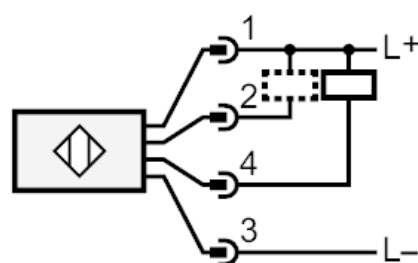
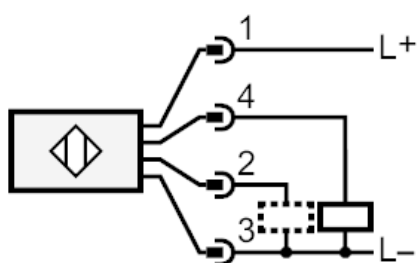
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Electrical connection

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



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Diagrams and graphs

excess gain graph

