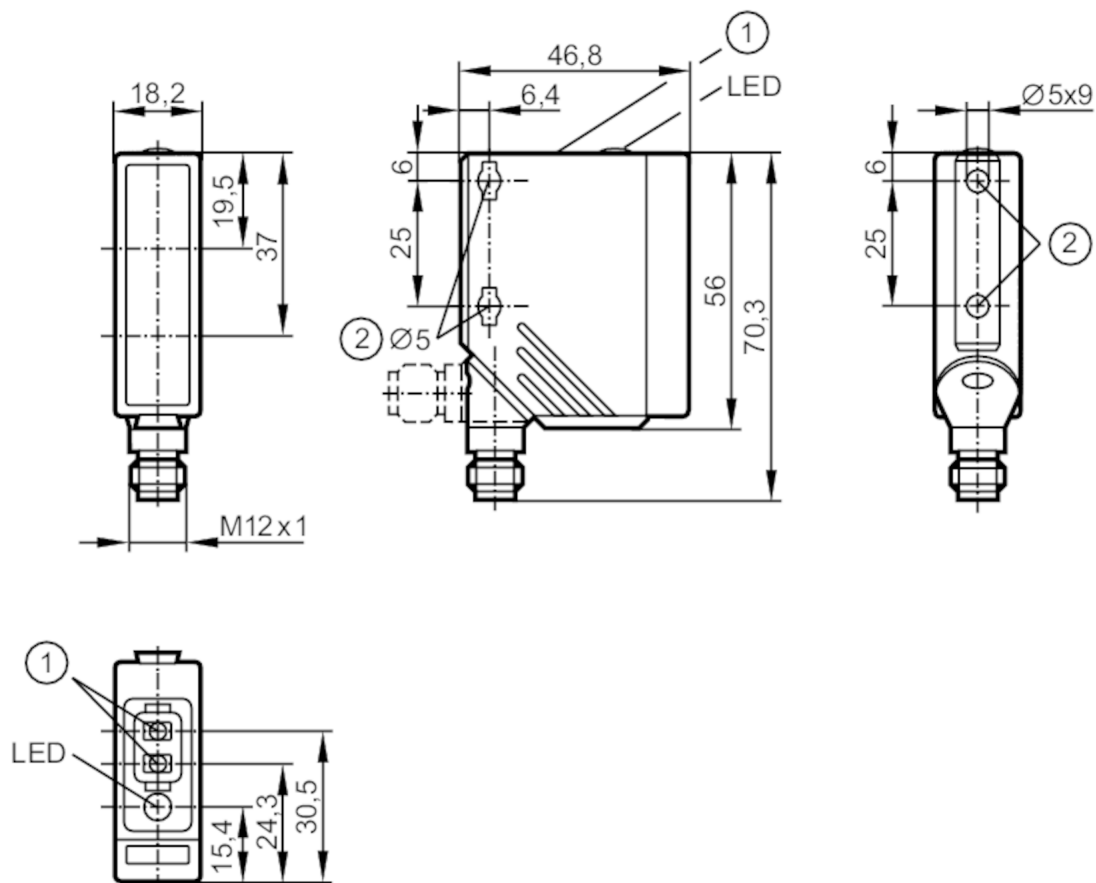


O5G500



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



Retro-reflective sensor for the detection of transparent objects

O5PGFAKG/US100

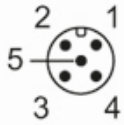
Function check output		yes
Max. voltage drop of function check output [V]		2.5
Max. current load for function check output [mA]		50
Permanent current rating of switching output DC [mA]		200
Switching frequency DC [Hz]		1500
Short-circuit protection		yes
Type of short-circuit protection		pulsed
Overload 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.

Retro-reflective sensor for the detection of transparent objects

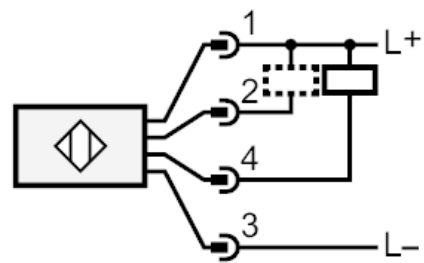
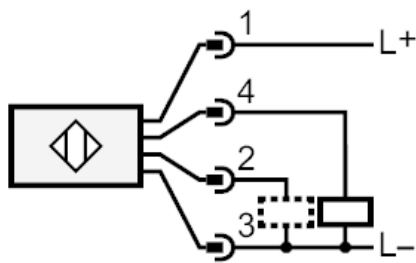
O5PGFAKG/US100

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



Diagrams and graphs

excess gain graph

