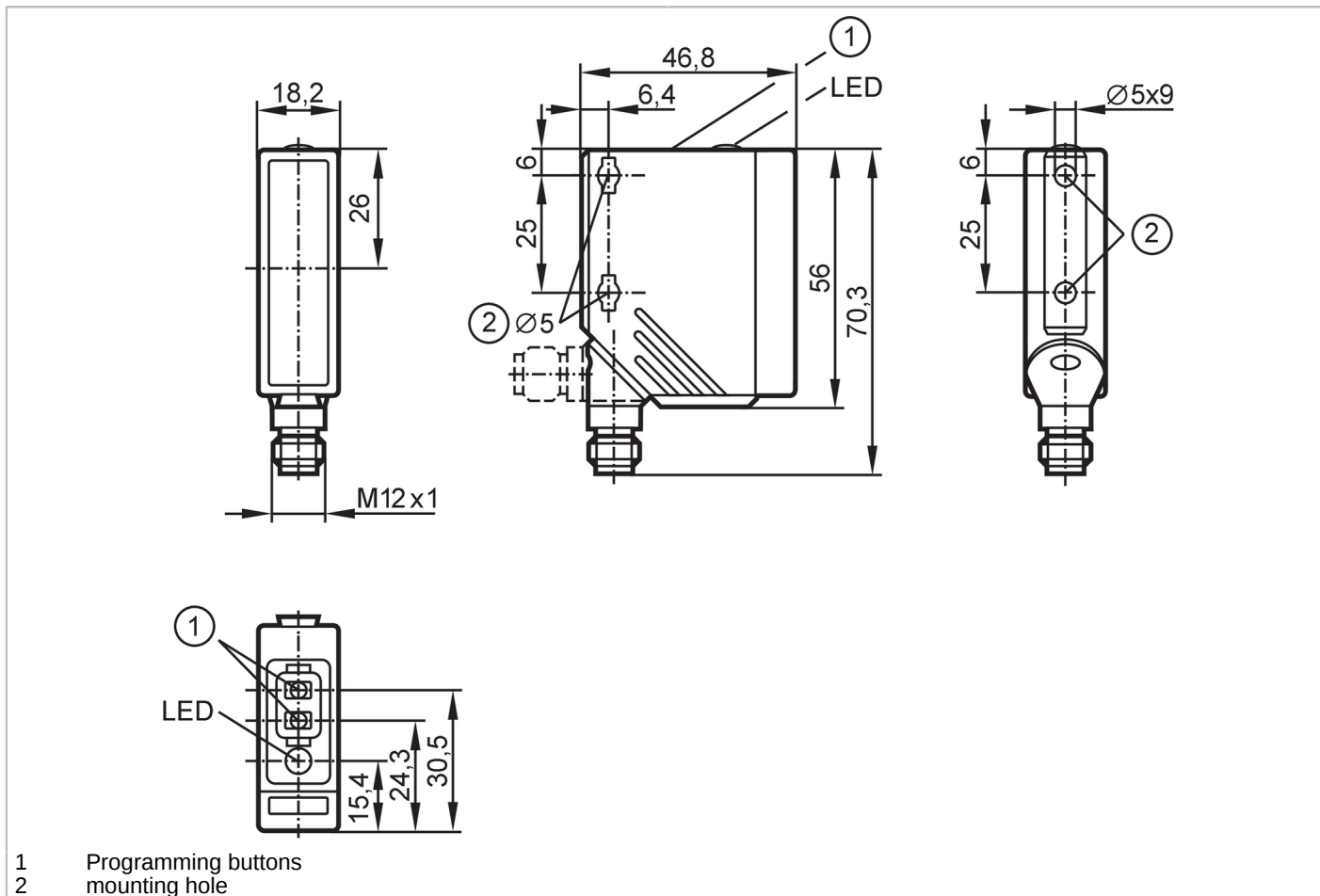


O5G500



Retro-reflective sensor for the detection of transparent objects

O5PGFAKG/US100



Product characteristics	
Type of light	red light
Housing	rectangular
Application	
Special feature	polarization filter; Function check output
Function principle	Retro-reflective sensor
Application	High switching frequency for fast processes
Electrical data	
Operating voltage [V]	10...36 DC; (cULus - Class 2 source required)
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)

O5G500



Retro-reflective sensor for the detection of transparent objects

O5PGFAKG/US100

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		yes (non-latching)
Overload protection		yes
Monitoring range		
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
Polarization 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
Material		housing: PA; Front framework: stainless steel; operator interface: TPU (urethane)
Lens material		front lens:PMMA
Lens alignment		Side sensing
Mounting hole		
Tightening torque	[Nm]	< 2; (when using a mounting screw M5)
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.

O5G500

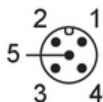


Retro-reflective sensor for the detection of transparent objects

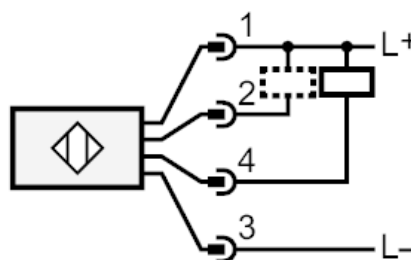
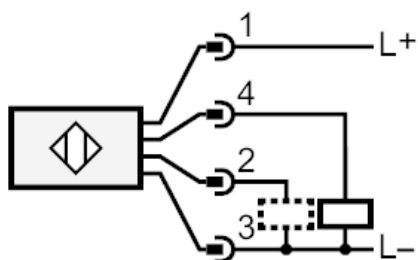
O5PGFAKG/US100

Electrical connection

Connector: 1 x M12; coding: A; Contacts: 5



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

