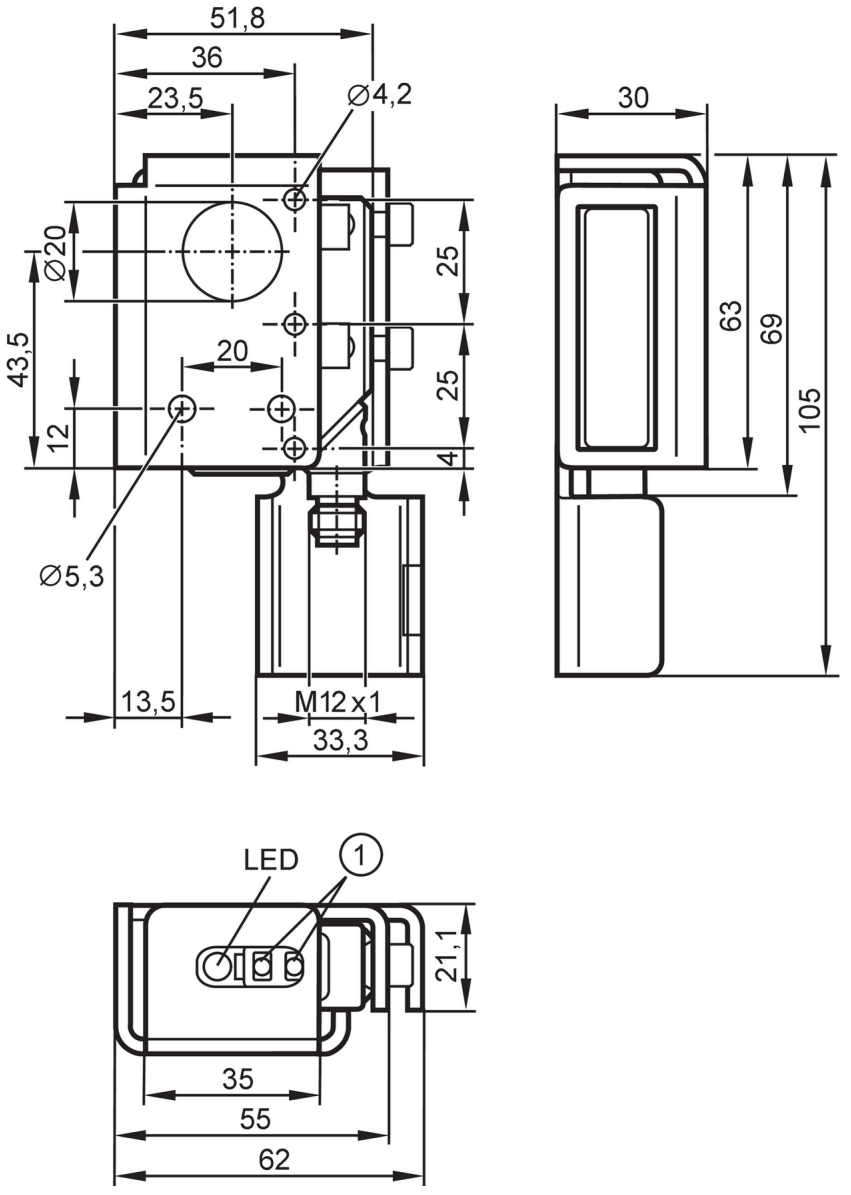
O5P51A

Retro-reflective sensor

O5P-FPKG/US100/3D



1 Programming buttons
Receiver in upper lens
transmitter in lower lens

Product characteristics		
Type of light		red light
Housing		rectangular
Application		
Special feature		polarization filter
Function principle		Retro-reflective sensor
Application		For applications in hazardous areas
Electrical data		
Operating voltage	[V]	10...30 DC; (when used outside the hazardous area: 10...36)
Current consumption	[mA]	20

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Protection class		III
Reverse polarity protection		yes
Type of light		red light
Outputs		
Electrical design		PNP
Output function		light-on/dark-on mode; (programmable)
Max. voltage drop switching output DC	[V]	2.5
Permanent current rating of switching output DC	[mA]	100; (when used outside the hazardous area: 200)
Switching frequency DC	[Hz]	2000
Short-circuit protection		yes
Type of short-circuit protection		yes (non-latching)
Overload protection		yes
Monitoring range		
Range referred to prismatic reflector	[m]	0.075...10; (Prismatic reflector Ø 80 E20005)
Range adjustable		yes
Max. light spot diameter	[mm]	250
Polarization filter available		yes
Operating conditions		
Ambient temperature	[°C]	-10...50
Note on ambient temperature		when used outside the hazardous area: -25...60 °C
Protection		IP 65
Tests / approvals		
ATEX marking		II 3D Ex tc IIIC T105°C Dc X
EMC		EN 60947-5-2
MTTF	[years]	435
Mechanical data		
Weight	[g]	336.5
Housing		rectangular
Dimensions	[mm]	105 x 30 x 62
Material		housing: PA; Front framework: stainless steel; operator interface: TPU (urethane); Protective cover: stainless steel
Lens material		front lens:PMMA
Lens alignment		Side sensing
Displays / operating elements		
Display		Switching status: 1 x LED, yellow
Teach function		yes
Electronic lock		yes
Remarks		
Pack quantity		1 pcs.

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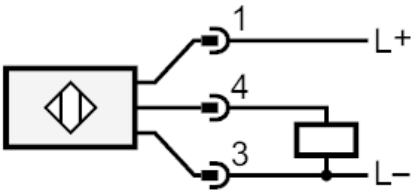
Electrical connection

Connector: 1 x M12; coding: A; Contacts: 4

Connection



Diagrams and graphs

excess gain graph