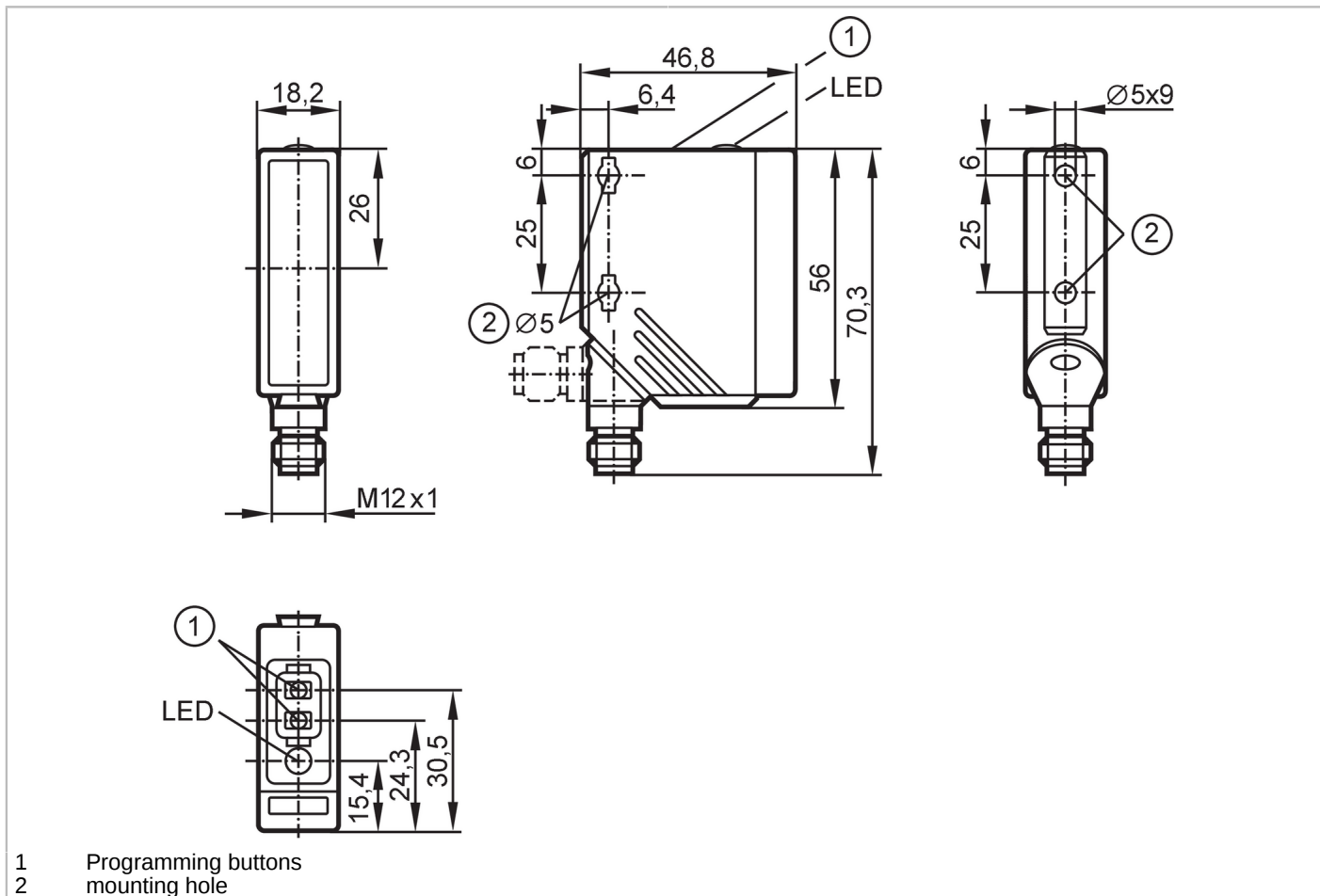


O5P700



Retro-reflective LASER sensor

O5PLFPKG/US100



Product characteristics	
Type of light	red light
Laser protection class	1
Housing	rectangular
Application	
Special feature	polarization filter
Function principle	Retro-reflective sensor
Electrical data	
Operating voltage [V]	10...36 DC
Current consumption [mA]	15
Protection class	II
Reverse polarity protection	yes
Type of light	red light
Wave length [nm]	655
Outputs	
Electrical design	PNP
Output function	light-on/dark-on mode; (programmable)

O5P700



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Max. voltage drop switching output DC	[V]	2.5
Permanent current rating of switching output DC	[mA]	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]	15; (Prismatic reflector Ø 80 E20005)
Range adjustable		yes
Diameter of the smallest detectable object	[mm]	3; (1 m; 15 m: 20)
Max. light spot diameter	[mm]	40
Light spot dimensions refer to		at maximum range
Polarization filter available		yes

Operating conditions

Ambient temperature	[°C]	-10...60
Protection		IP 67

Tests / approvals

EMC	EN 60947-5-2	
Laser protection class		1
Notes on laser protection	Caution:	Laser light
	laser class:	1
		EN / IEC60825-1:2007
		EN / IEC60825-1:2014
		Complies with 21 CFR 1040.10 except for conformance with IEC 60825-1 Ed. 3, as described in Laser Notice No. 56, dated May 8, 2019.
MTTF	[years]	602

Mechanical data

Weight	[g]	71
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

Displays / operating elements

Display	Switching status	1 x LED, yellow
Teach function		yes
Electronic lock		yes

Remarks

Remarks		cULus - Class 2 source required
Pack quantity		1 pcs.

O5P700



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Electrical connection

Connector: 1 x M12; coding: A



Connection

