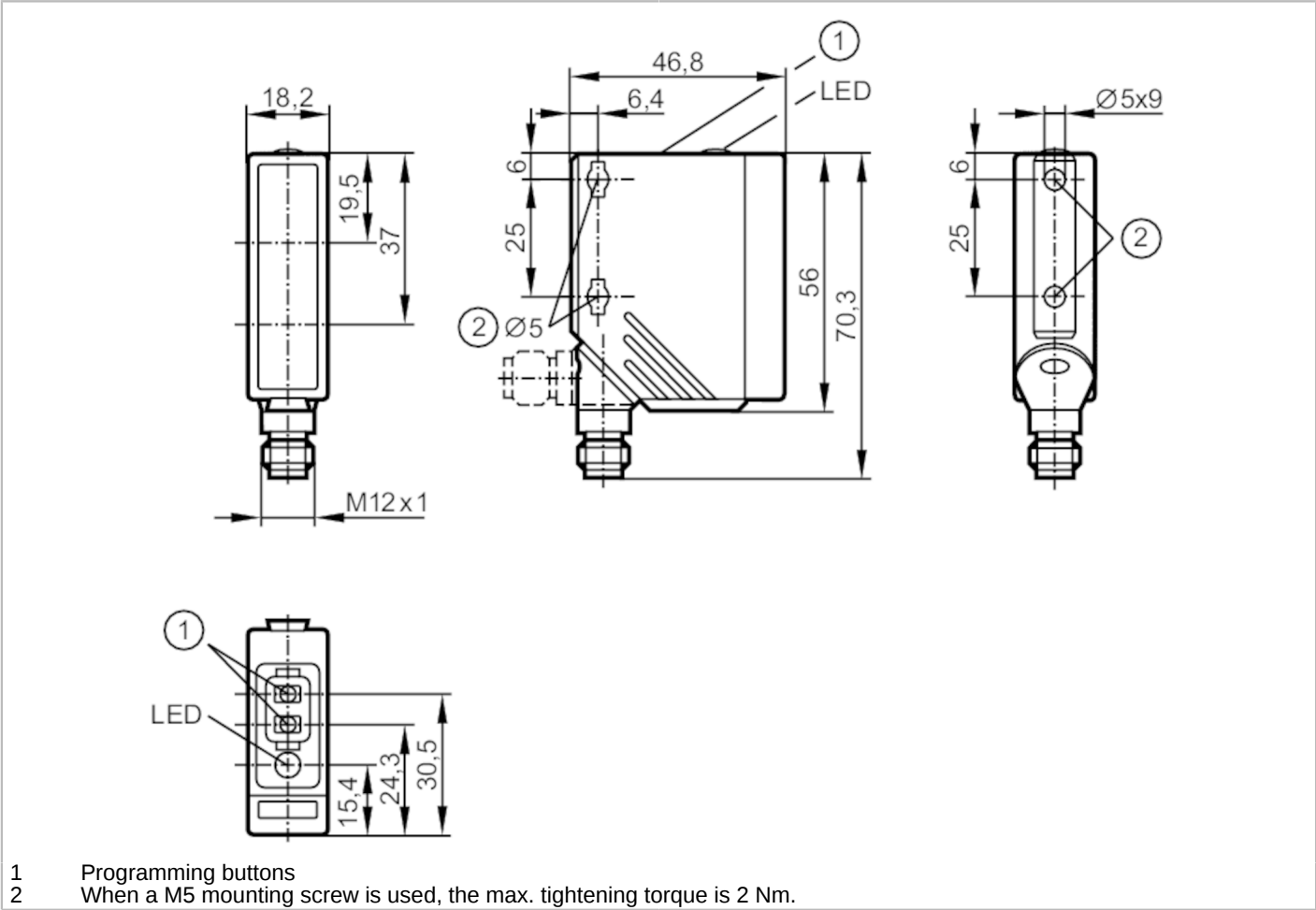


O5H501



Diffuse reflection sensors with background suppression

O5H-FPKG/US100



Product characteristics	
Type of light	red light
Housing	rectangular
Application	
System	Background suppression
Function principle	Diffuse reflection sensor
Electrical data	
Operating voltage [V]	10...36 DC; (cULus - Class 2 source required)
Current consumption [mA]	30
Protection class	II
Reverse polarity protection	yes
Type of light	red light
Wave length [nm]	624
Outputs	
Electrical design	PNP
Output function	light-on/dark-on mode; (programmable)
Max. voltage drop switching output DC [V]	2.5



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Permanent current rating of switching output DC	[mA]	200
Switching frequency DC	[Hz]	1000
Short-circuit protection		yes
Type of short-circuit protection		yes (non-latching)
Overload protection		yes

Monitoring range

Range	[mm]	60...700; (white paper 200 x 200 mm 90 % remission)
Range on white object (90 % remission)	[mm]	60...700
Range on grey object (18 % remission)	[mm]	60...370
Range on black object (6 % remission)	[mm]	60...210
Range adjustable		yes
Max. light spot diameter	[mm]	35
Light spot dimensions refer to		at maximum range
Background suppression available		yes

Operating conditions

Ambient temperature	[°C]	-25...60
Protection		IP 67

Tests / approvals

EMC		EN 60947-5-2
MTTF	[years]	360

Mechanical data

Weight	[g]	67.5
Housing		rectangular
Dimensions	[mm]	56 x 18.2 x 46.8
Material		housing: PA; Front framework: stainless steel; operator interface: TPU (urethane)
Lens material		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



Connection

