

O5H501



Diffuse reflection sensor with background suppression

O5H-FPKG/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	Background suppression
Function principle	Diffuse reflection sensor

Electrical data

Operating voltage	[V]	10...36 DC; ("supply class 2" to cULus)
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		pulsed
Overload protection		yes
Detection zone		
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
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
Teach function		yes
Electronic lock		yes
Remarks		
Pack quantity		1 pcs.

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Electrical connection

Connector: 1 x M12; coding: A



Connection

