

O5P500



Retro-reflective sensor

O5P-FPKG/US100



- 1 programming buttons
 2 When a M5 mounting screw is used, the max. tightening torque is 2 Nm.
 receiver in upper lens
 transmitter in lower lens



Application

Function principle Retro-reflective sensor

Electrical data

Operating voltage	[V]	10...36 DC
Current consumption	[mA]	20
Protection class		II
Reverse polarity protection		yes
Type of light		red light
Wave length	[nm]	624

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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]	200	
Switching frequency DC [Hz]	2000	
Short-circuit protection	yes	
Type of short-circuit protection	pulsed	
Overload protection	yes	
Detection zone		
Range referred to prismatic reflector [m]	0.075...10; (Prismatic reflector Ø 80 E20005)	
Range adjustable	yes	
Max. light spot diameter [mm]	250	
Light spot dimensions refer to	at maximum range	
Polarisation filter available	yes	
Operating conditions		
Ambient temperature [°C]	-25...60	
Protection	IP 67	
Tests / approvals		
EMC	EN 60947-5-2	
MTTF [years]	435	
Mechanical data		
Weight [g]	67.6	
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		
Remarks	operating voltage "supply class 2" according to cULus	
Pack quantity	1 pcs.	
Electrical connection		
Connector: 1 x M12		

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Connection





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Diagrams and graphs

excess gain graph

