

O5E51A



Through-beam sensor receiver

O5E-FPKG/US100/3D



1 programming buttons



Application

Function principle Through-beam sensor

Electrical data

Operating voltage [V]	10...30 DC; (outside hazardous areas: 10...36)
Current consumption [mA]	11
Protection class	III
Reverse polarity protection	yes
Type of light	red light

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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]	100; (outside hazardous areas: 200)	
Switching frequency DC [Hz]	1000	
Short-circuit protection	yes	
Type of short-circuit protection	pulsed	
Overload protection	yes	
Detection zone		
Transmitter / receiver	receiver	
Range [m]	< 25	
Range adjustable	yes	
Operating conditions		
Ambient temperature [°C]	-10...50	
Note on ambient temperature	outside hazardous areas: -25...60	
Protection	IP 65	
Tests / approvals		
ATEX marking	 II 3D Ex tc IIIC T105°C Dc X	
EMC	EN 60947-5-2	
MTTF [years]	801	
Mechanical data		
Weight [g]	333	
Housing	rectangular	
Dimensions [mm]	105 x 30 x 62	
Materials	housing: PA; bezel: stainless steel; operator interface: TPU; Protective bracket: stainless steel	
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.	
Electrical connection		
Connector: 1 x M12		

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Connection



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Diagrams and graphs

excess gain graph

