

O5E51A



Through-beam sensor receiver

O5E-FPKG/US100/3D



1 Programming buttons



Product characteristics

Type of light	red light
Housing	rectangular

Application

Function principle	Through-beam sensor
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Electrical data

Operating voltage	[V]	10...30 DC; (when used outside the hazardous area: 10...36)
Current consumption	[mA]	11
Protection class		III
Reverse polarity protection		yes

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Type of light	red light	
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; (when used outside the hazardous area: 200)	
Switching frequency DC [Hz]	1000	
Short-circuit protection	yes	
Type of short-circuit protection	yes (non-latching)	
Overload protection	yes	
Monitoring range		
Transmitter / receiver	receiver	
Range [m]	< 25	
Range adjustable	yes	
Operating conditions		
Ambient temperature [°C]	-10...50	
Note on ambient temperature	when used outside the hazardous area: -25...60 °C	
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]	336	
Housing	rectangular	
Dimensions [mm]	105 x 30 x 62	
Material	housing: PA; Front framework: stainless steel; operator interface: TPU (urethane); Protective cover: stainless steel	
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



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Diagrams and graphs

excess gain graph

