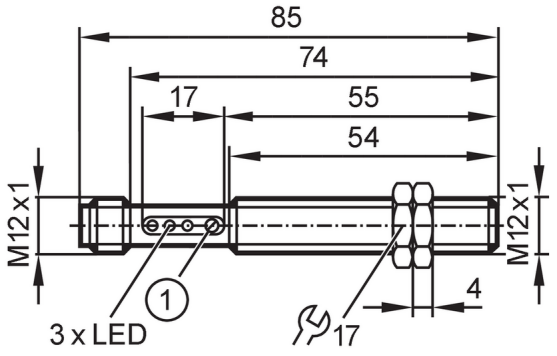
OF5027

Diffuse reflection sensor

OFB-FPKG/US-100



1 potentiometer

Product characteristics		
Type of light		Infrared light
Housing		Threaded type
Application		
Special feature		Function check output
Function principle		Diffuse reflection sensor
Application		Industrial applications
Electrical data		
Operating voltage	[V]	10...36 DC
Current consumption	[mA]	< 35
Protection class		II
Reverse polarity protection		yes
Type of light		Infrared light
Wave length	[nm]	880
Outputs		
Electrical design		PNP
Output function		light-on/dark-on mode; (programmable)
Max. voltage drop switching output DC	[V]	2.5
Function check output		yes
Max. voltage drop of function check output	[V]	3.5
Max. current load for function check output	[mA]	10
Permanent current rating of switching output DC	[mA]	200
Switching frequency DC	[Hz]	320
Short-circuit protection		yes
Type of short-circuit protection		yes (non-latching)
Overload protection		yes
Monitoring range		
Range	[mm]	1...400; (white paper 200 x 200 mm)

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Range adjustable		yes	
Max. light spot diameter	[mm]	185	
Light spot dimensions refer to		at maximum range	
Operating conditions			
Ambient temperature	[°C]	-25...60	
Protection		IP 65	
Tests / approvals			
EMC		EN 60947-5-2	
MTTF	[years]	607	
UL approval		Ta	< 40 °C
		Enclosure type	Type 1
		voltage supply	Limited Voltage/Current
		UL approval number	E030
		File number UL	E174191
Mechanical data			
Weight	[g]	40	
Housing		Threaded type	
Dimensions	[mm]	M12 x 1 / L = 74	
Thread designation		M12 x 1	
Material		housing: brass white bronze coated	
Lens material		front lens:PMMA	
Displays / operating elements			
Display		Switching status	1 x LED, yellow
		Power	1 x LED, green
		Function	1 x LED, red
Accessories			
Items supplied		lock nuts: 2	
		screwdrivers	
Remarks			
Pack quantity		1 pcs.	

Electrical connection

Connector: 1 x M12; coding: A; Contacts: 4

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Connection

2 Function check output

Diagrams and graphs

excess gain graph