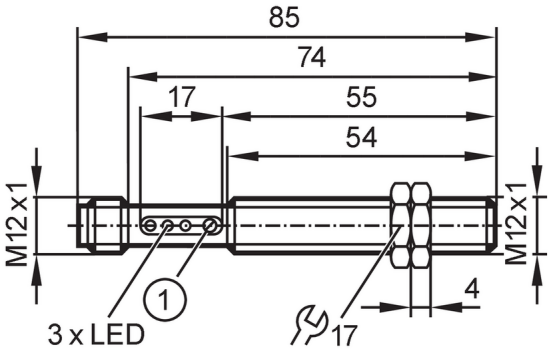
OF5012

Diffuse reflection sensor

OFT-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 / factory automation
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		pulsed
Overload protection		yes
Detection zone		
Range	[mm]	1...200; (white paper 200 x 200 mm)

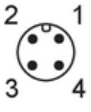
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Range adjustable			yes
Max. light spot diameter	[mm]		92
Light spot dimensions refer to			at maximum range
Operating conditions			
Ambient temperature	[°C]		-25...60
Protection			IP 65
Tests / approvals			
EMC		EN 60947-5-2	
		EN 55011	class B
MTTF	[years]		607
UL approval		Ta	< 40 °C
		Enclosure type	Type 1
		voltage supply	Limited Voltage/Current
		UL approval no.	E030
		File number UL	E174191
Mechanical data			
Weight	[g]		30
Housing			threaded type
Dimensions	[mm]		M12 x 1 / L = 74
Thread designation			M12 x 1
Materials			housing: brass nickel-plated
Lens material			front pane:PMMA
Displays / operating elements			
Display		switching status	1 x LED, yellow
		operation	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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Diffuse reflection sensor

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Connection



2 Function check output

Diagrams and graphs

excess gain graph

