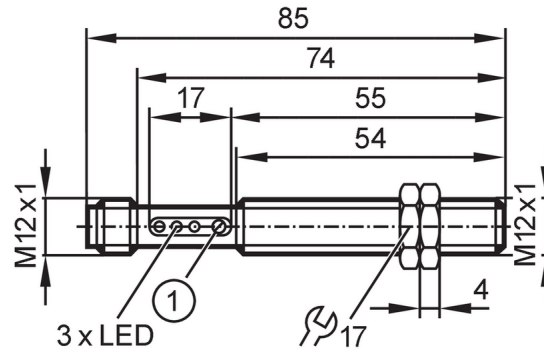


# OF5012



## 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
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...200; (white paper 200 x 200 mm)

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## Diffuse reflection sensor

OFT-FPKG/US-100

Range adjustable	yes
Max. light spot diameter [mm]	92
Light spot dimensions refer to	at maximum range

<b>Operating conditions</b>	
Ambient temperature [°C]	-25...60
Protection	IP 65

<b>Tests / approvals</b>		
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 number	E030
	File number UL	E174191

<b>Mechanical data</b>	
Weight [g]	30
Housing	Threaded type
Dimensions [mm]	M12 x 1 / L = 74
Thread designation	M12 x 1
Material	housing: brass nickel-plated
Lens material	front lens:PMMA

<b>Displays / operating elements</b>		
Display	Switching status	1 x LED, yellow
	Power	1 x LED, green
	Function	1 x LED, red

<b>Accessories</b>	
Items supplied	lock nuts: 2 screwdrivers

<b>Remarks</b>	
Pack quantity	1 pcs.

<b>Electrical connection</b>	
Connector: 1 x M12; coding: A; Contacts: 4	
	

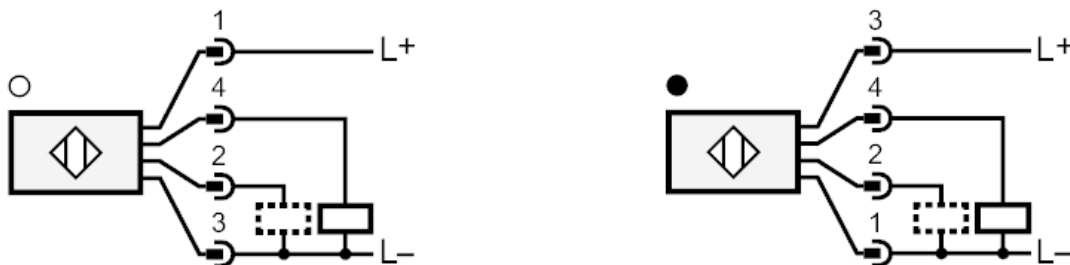
# OF5012



## Diffuse reflection sensor

OFT-FPKG/US-100

### Connection



### 2 Function check output

#### Diagrams and graphs

excess gain graph

