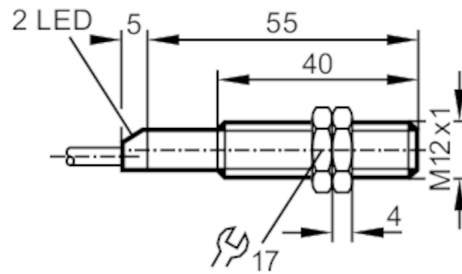


# OF5010



## Diffuse reflection sensor

OFT-FPKG



### Product characteristics

Type of light	Infrared light
Housing	Threaded type

### Application

Function principle	Diffuse reflection sensor
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### Electrical data

Operating voltage [V]	10...36 DC
Current consumption [mA]	< 30
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
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)
Range adjustable	no
Max. light spot diameter [mm]	92
Light spot dimensions refer to	at maximum range

### Operating conditions

Ambient temperature [°C]	-25...60
Protection	IP 67

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Tests / approvals		
EMC	EN 60947-5-2	
	EN 55011	class B
MTTF [years]		891
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]		73
Housing		Threaded type
Dimensions [mm]		M12 x 1 / L = 60
Thread designation		M12 x 1
Material		brass nickel-plated
Lens material		PMMA

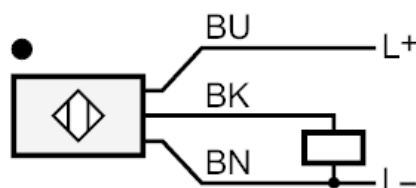
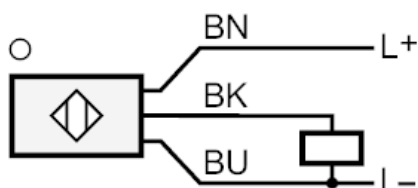
Displays / operating elements		
Display	Switching status	1 x LED, yellow
	Power	1 x LED, green

Accessories		
Items supplied		lock nuts: 2

Remarks		
Pack quantity		1 pcs.

Electrical connection		
Cable: 2 m, PUR; 3 x 0.34 mm <sup>2</sup>		

### Connection



Core colors :  
BN = brown  
BU = blue  
BK = black

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### Diagrams and graphs

excess gain graph

