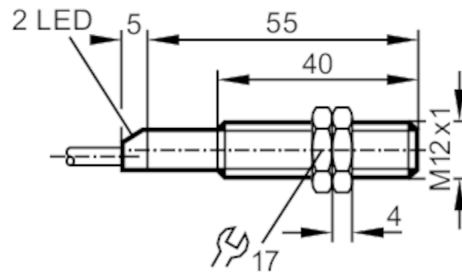


# OF5010



## Diffuse reflection sensor

OFT-FPKG



### Product characteristics

Type of light	infrared light
Housing	threaded type
Dimensions [mm]	M12 x 1 / L = 60

### 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	pulsed
Overload protection	yes

### Detection zone

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

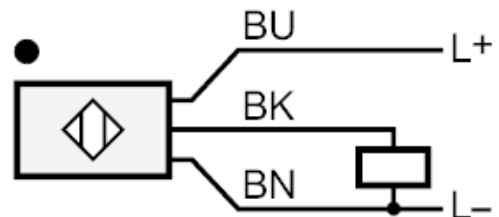
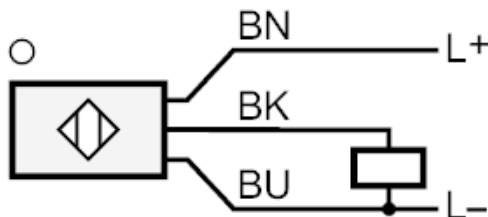
# OF5010



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Tests / approvals		
EMC	EN 60947-5-2	
	EN 55011	class B
MTTF [years]	891	
Mechanical data		
Weight [g]	73	
Housing	threaded type	
Dimensions [mm]	M12 x 1 / L = 60	
Thread designation	M12 x 1	
Materials	brass nickel-plated	
Lens material	PMMA	
Displays / operating elements		
Display	switching status	1 x LED, yellow
	operation	1 x LED, green
Accessories		
Accessories (supplied)	lock nuts: 2 x	
Remarks		
Pack quantity	1 pcs.	
Electrical connection		
Cable: 2 m, PUR; 3 x 0.34 mm <sup>2</sup>		
Connection		



Core colours :

BN = brown  
BU = blue  
BK = black

# OF5010



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### Diagrams and graphs

excess gain graph

