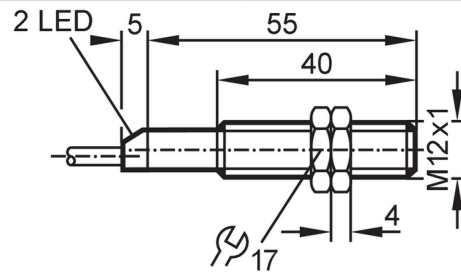


# OF5048



## Diffuse reflection sensor

OFT-FNKG



### Product characteristics

Type of light	infrared light
Housing	threaded type

### Application

Function principle	Diffuse reflection sensor
Application	Industrial applications / factory automation

### 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		NPN
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

### Tests / approvals

EMC	EN 60947-5-2
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MTTF	[years]	903
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]	73.1
Housing		threaded type
Dimensions	[mm]	M12 x 1 / L = 60
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

### Accessories

Items supplied	lock nuts: 2
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### Remarks

Pack quantity	1 pcs.
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### Electrical connection

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

### Connection



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

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### Diagrams and graphs

excess gain graph

