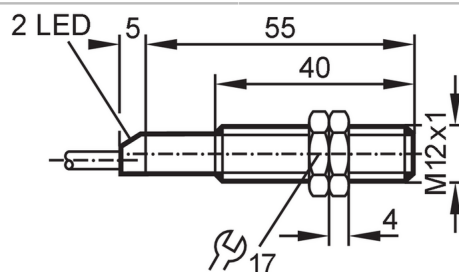




Diffuse reflection sensor

OFT-FNKG



Product characteristics

Type of light	Infrared light
Housing	Threaded type

Application

Function principle	Diffuse reflection sensor
Application	Industrial applications

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		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

Tests / approvals

EMC	EN 60947-5-2	
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Diffuse reflection sensor

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MTTF	[years]	903
UL approval	Ta	< 40 °C
	Enclosure type	Type 1
	voltage supply	Limited Voltage/Current
	UL approval number	E030
	File number UL	E174191

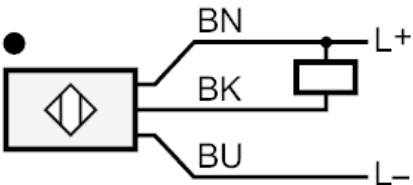
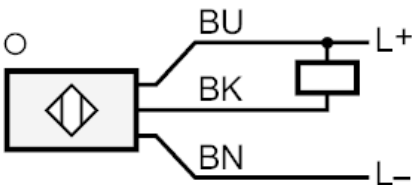
Mechanical data		
Weight	[g]	73.1
Housing		Threaded type
Dimensions	[mm]	M12 x 1 / L = 60
Thread designation		M12 x 1
Material		housing: brass nickel-plated
Lens material		front lens:PMMA

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 mm²	
Connection	



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

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Diagrams and graphs

excess gain graph

