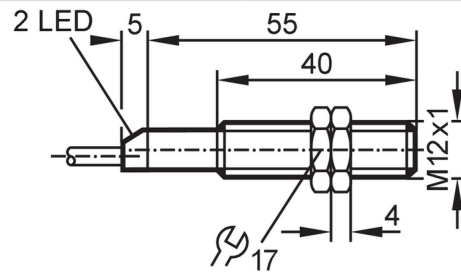




Retro-reflective sensor

OFR-FNKG



Product characteristics

Type of light	Infrared light
Housing	Threaded type

Application

Function principle	Retro-reflective 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 referred to prismatic reflector	[m]	0.05...2; (Prismatic reflector Ø 80 E20005)
Max. light spot diameter	[mm]	140
Light spot dimensions refer to		at maximum range

Operating conditions

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

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Retro-reflective sensor

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Tests / approvals		
EMC	EN 60947-5-2	
	EN 55011	class B
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	
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	

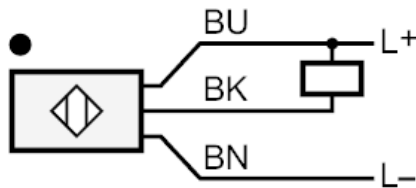
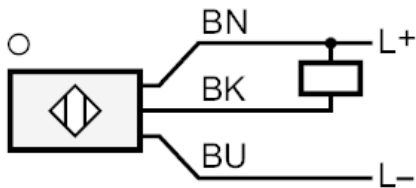
Displays / operating elements		
Display	Switching status	1 x LED, yellow
	Power	1 x LED, green

Accessories		
Items supplied	lock nuts: 2	

Remarks		
Pack quantity	1 pcs.	

Electrical connection		
Cable: 2 m, PUR; 3 x 0.34 mm²		

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

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Retro-reflective sensor

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Diagrams and graphs

excess gain graph

