

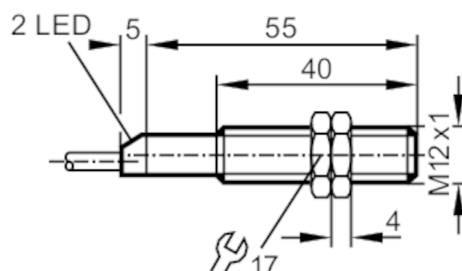
Diffuse reflection sensor

OFB-FNKG

Article no longer available - archive entry

Alternative articles: OF5060

When selecting an alternative article and accessories please note that technical data may differ!



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		NPN
Output function		light-on/dark-on mode; (parameterisable)
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...400; (white paper 200 x 200 mm)
Max. light spot diameter	[mm]	185
Light spot dimensions refer to		at maximum range

Operating conditions

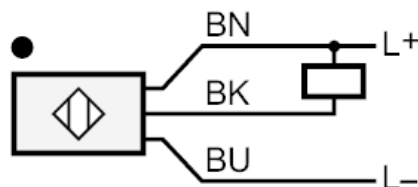
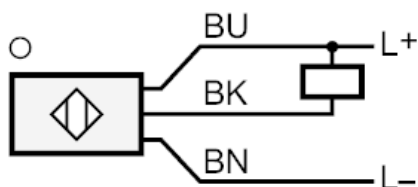
Ambient temperature	[°C]	-25...60
Protection		IP 67



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Tests / approvals		
EMC	EN 60947-5-2	
	EN 55011	class B
Mechanical data		
Weight	[g]	0.106
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
Аксессуары		
Items supplied		lock nuts: 2
Remarks		
Pack quantity		1 pcs.
Electrical connection		
Cable: 2 m, PUR; 3 x 0.34 mm ²		
Connection		



Core colours :

BN = brown

BU = blue

BK = black



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Diagrams and graphs

excess gain graph

