OF5059

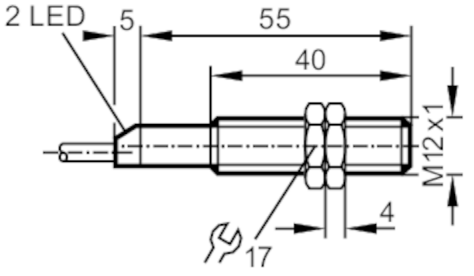
Diffuse reflection sensor

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
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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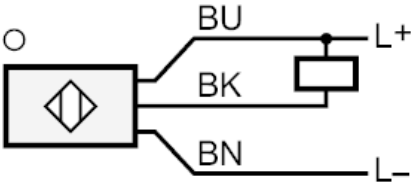
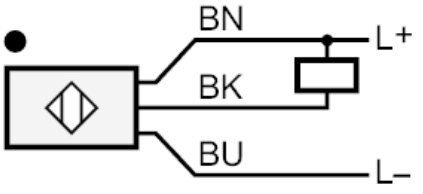
Tests / approvals			
EMC		EN 60947-5-2	
		EN 55011	class B
Mechanical data			
Weight	[g]	0.106	
Housing		threaded type	
Dimensions	[mm]	M12 x 1 / L = 60	
Thread designation		M12 x 1	
Materials		brass nickel-plated	
Lens material		PMMA	
Displays / operating elements			
Display		switching status	1 x LED, yellow
		operation	1 x LED, green
Accessories			
Items supplied		lock nuts: 2	
Remarks			
Pack quantity		1 pcs.	
Electrical connection			

Cable: 2 m, PUR; 3 x 0.34 mm²

Connection





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

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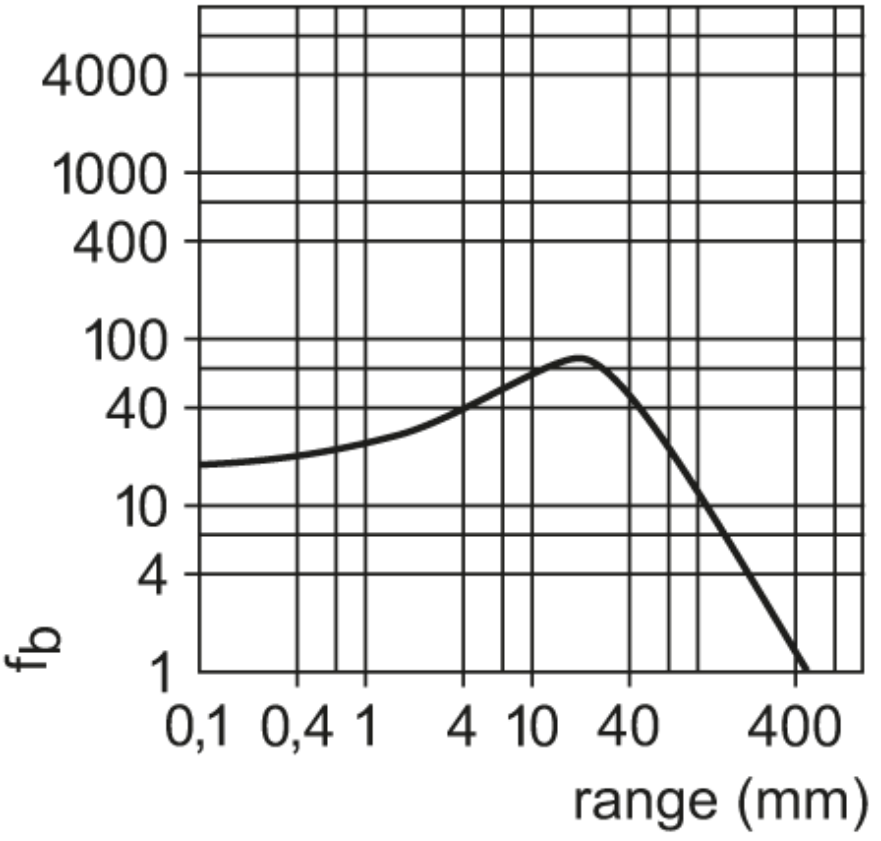
Diagrams and graphs

excess gain graph