OG5109

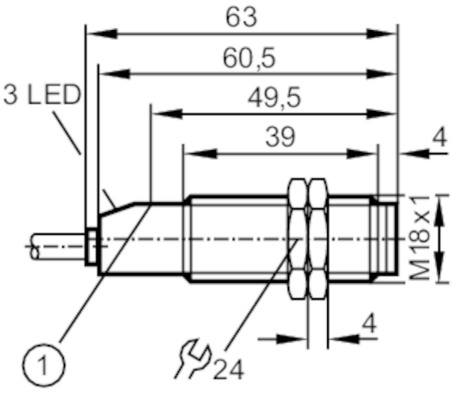
Diffuse reflection sensors with background suppression

OGH-FPKG/V4A/6M

Article no longer available - archive entry

Alternative articles: OGH313

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



1 pushbutton

Product characteristics		
Type of light		red light
Housing		Threaded type
Application		
System		Background suppression
Function principle		Diffuse reflection sensor
Electrical data		
Operating voltage	[V]	10...36 DC
Current consumption	[mA]	< 40
Protection class		II
Reverse polarity protection		yes
Type of light		red light
Wave length	[nm]	660
Outputs		
Electrical design		PNP
Output function		light-on/dark-on mode; (configurable)
Max. voltage drop switching output DC	[V]	2.5
Permanent current rating of switching output DC	[mA]	150; (200 (...60 °C))
Switching frequency DC	[Hz]	250
Short-circuit protection		yes
Type of short-circuit protection		yes (non-latching)
Overload protection		yes
Monitoring range		
Range	[mm]	30...130; (white paper 200 x 200 mm 90 % remission)
Range adjustable		yes

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Max. light spot diameter	[mm]	12	
Light spot dimensions refer to		at maximum range	
Background suppression available		yes	
Operating conditions			
Ambient temperature	[°C]	-20...80	
Protection		IP 68; IP 69K	
Tests / approvals			
EMC		EN 60947-5-2	
		EN 55011	class B
Mechanical data			
Housing		Threaded type	
Dimensions	[mm]	M18 x 1 / L = 63	
Thread designation		M18 x 1	
Material		stainless steel (1.4404 / 316L); PBT	
Lens material		PMMA	
Displays / operating elements			
Display		Switching status	1 x LED, yellow
		Power	1 x LED, green
		Function	1 x LED, red
Accessories			
Items supplied		lock nuts: 2	
Remarks			
Pack quantity		1 pcs.	
Electrical connection			

Cable: 6 m, PVC; 3 x 0.34 mm²

Connection



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

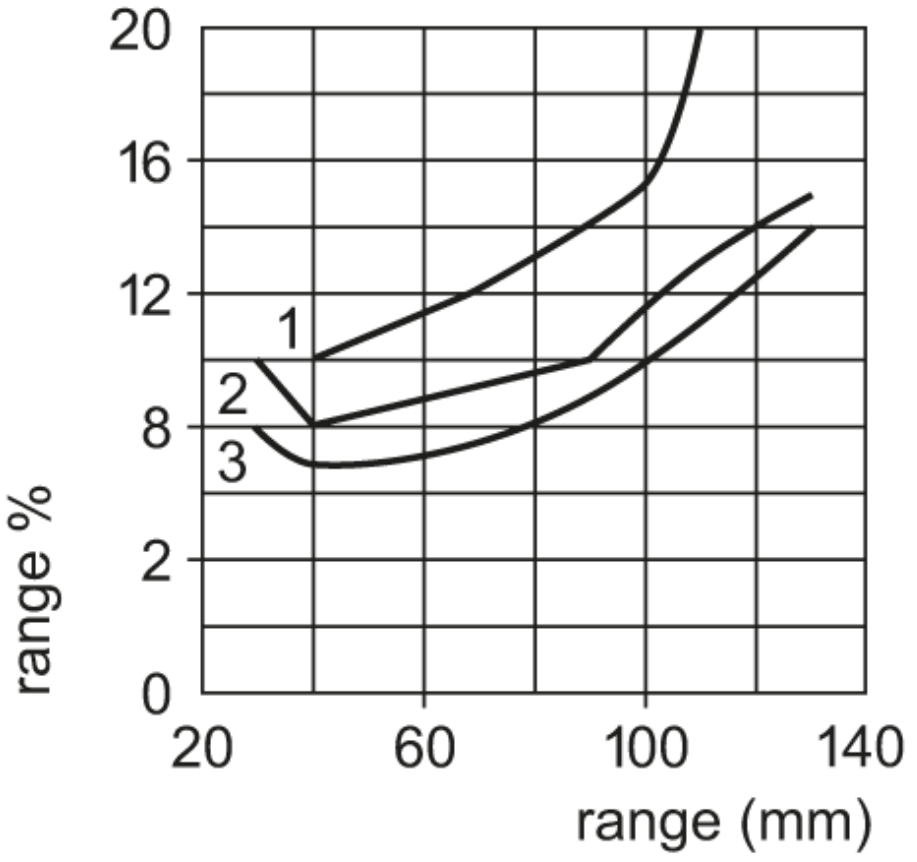
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Diagrams and graphs

Background suppression chart



x: distance sensor/object [mm]

y: min. distance object/background [mm]

1 = object black (6 % remission) , Background white (90 % remission)

2 = object grey (18 % remission) , Background white (90 % remission)

3 = object white (90 % remission) , Background white (90 % remission)

Note : range % = setting in % of the range