OT5004

Diffuse reflection sensor

OTT-FNKG/US-100-INF

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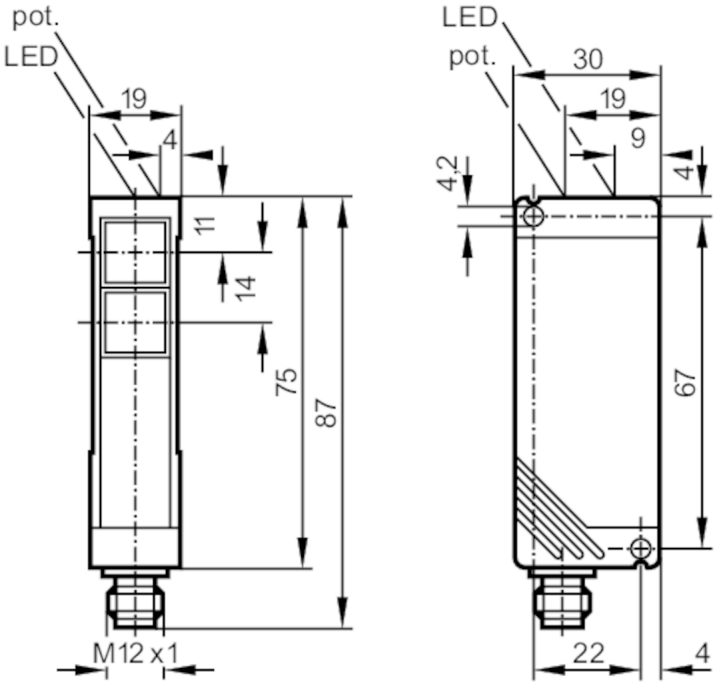
Alternative articles: O5H504

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



receiver in lower lens
transmitter in upper lens

Product characteristics		
Type of light		infrared light
Housing		rectangular
Application		
Function principle		Diffuse reflection sensor
Electrical data		
Operating voltage	[V]	10...50 DC
Current consumption	[mA]	40; ((24 V))
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]	250
Switching frequency DC	[Hz]	150

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Short-circuit protection		yes	
Type of short-circuit protection		pulsed	
Overload protection		yes	
Detection zone			
Range	[mm]	4...200; (white paper 200 x 200 mm)	
Range adjustable		yes	
Max. light spot diameter	[mm]	187	
Light spot dimensions refer to		at maximum range	
Operating conditions			
Ambient temperature	[°C]	-25...60	
Protection		IP 65	
Tests / approvals			
EMC		EN 60947-5-2	
		EN 55011	class B
Mechanical data			
Weight	[g]	0.161	
Housing		rectangular	
Dimensions	[mm]	75 x 19 x 30	
Materials		PBT	
Lens material		PMMA	
Displays / operating elements			
Display		switching status	1 x LED, yellow
		operation	1 x LED, green
Accessories			
Items supplied		Angle bracket: 1, E20461	
		screwdrivers	
Remarks			
Pack quantity		1 pcs.	
Electrical connection			

Connector: 1 x M12; coding: A

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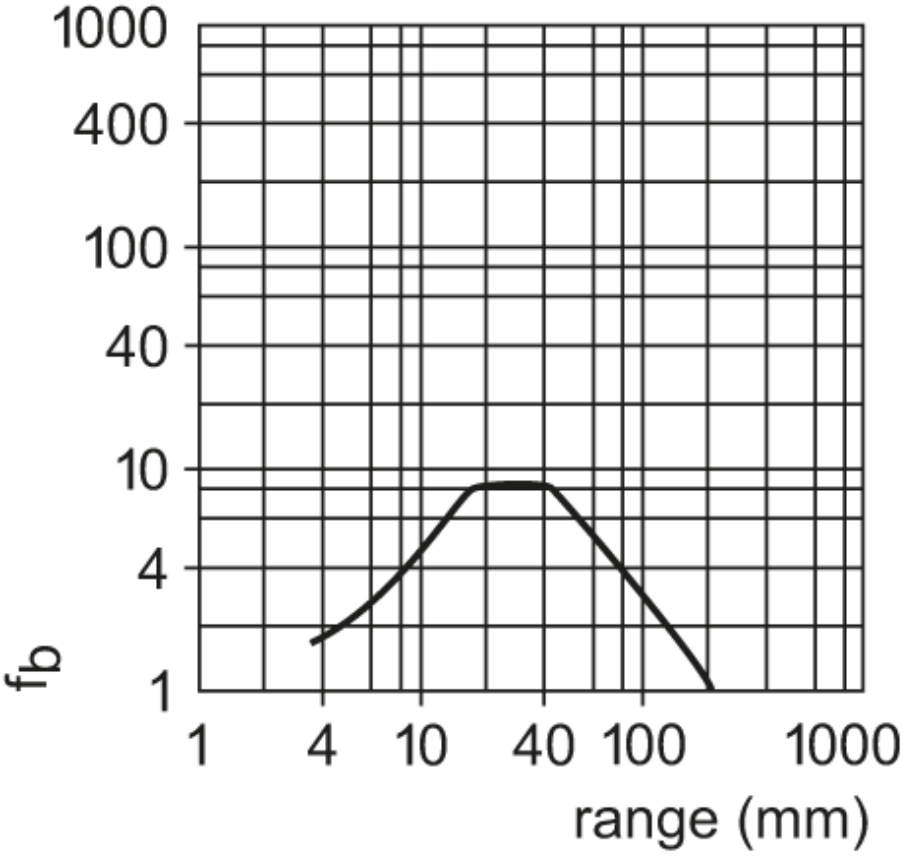
Connection

Diagrams and graphs

excess gain graph