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Diffuse reflection sensor


OG5056

OGTLFPKG/B5/V4A/US-100





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Product characteristics	
Type of light	red light
Laser protection class	2
Housing	Threaded type
Dimensions [mm]	M18 x 1 / L = 72

Application	
System	gold-plated contacts; Function check output
Function principle	Diffuse reflection sensor

Electrical data	
Operating voltage [V]	10...30 DC
Current consumption [mA]	< 30; (Power; \$Einstellung: < 50 mA)
Protection class	II
Reverse polarity protection	yes
Type of light	red light
Wave length [nm]	675
Typ. lifetime [h]	50000

Outputs	
Electrical design	PNP
Output function	light-on/dark-on mode; (configurable)
Max. voltage drop switching output DC [V]	2.5
Function check output	yes
Max. voltage drop of function check output [V]	3.5
Max. current load for function check output [mA]	10
Permanent current rating of switching output DC [mA]	200
Switching frequency DC [Hz]	500
Short-circuit protection	yes
Type of short-circuit protection	yes (non-latching)
Overload protection	yes

Monitoring range	
Range [mm]	1...150; (white paper 200 x 200 mm 90 % remission)
Range adjustable	yes
Max. light spot diameter [mm]	0.1
Light spot dimensions refer to	Range

Operating conditions	
Ambient temperature [°C]	-10...50
Protection	IP 67

Tests / approvals		
EMC	EN 60947-5-2	
	EN 55011	class B
Laser protection class	2	
Notes on laser protection	Caution:	Laser light
	pulse performance:	<= 2,2 mW
	Wave length:	675 nm
	Frequency:	2,2 kHz
	Pulse length:	24 μs
	Do not stare into beam.	
	Avoid exposure to the laser light.	
	laser class:	2
	EN 60825-1	

Mechanical data	
Housing	Threaded type
Dimensions [mm]	M18 x 1 / L = 72
Thread designation	M18 x 1
Material	stainless steel (1.4404 / 316L); PBT
Lens material	PMMA

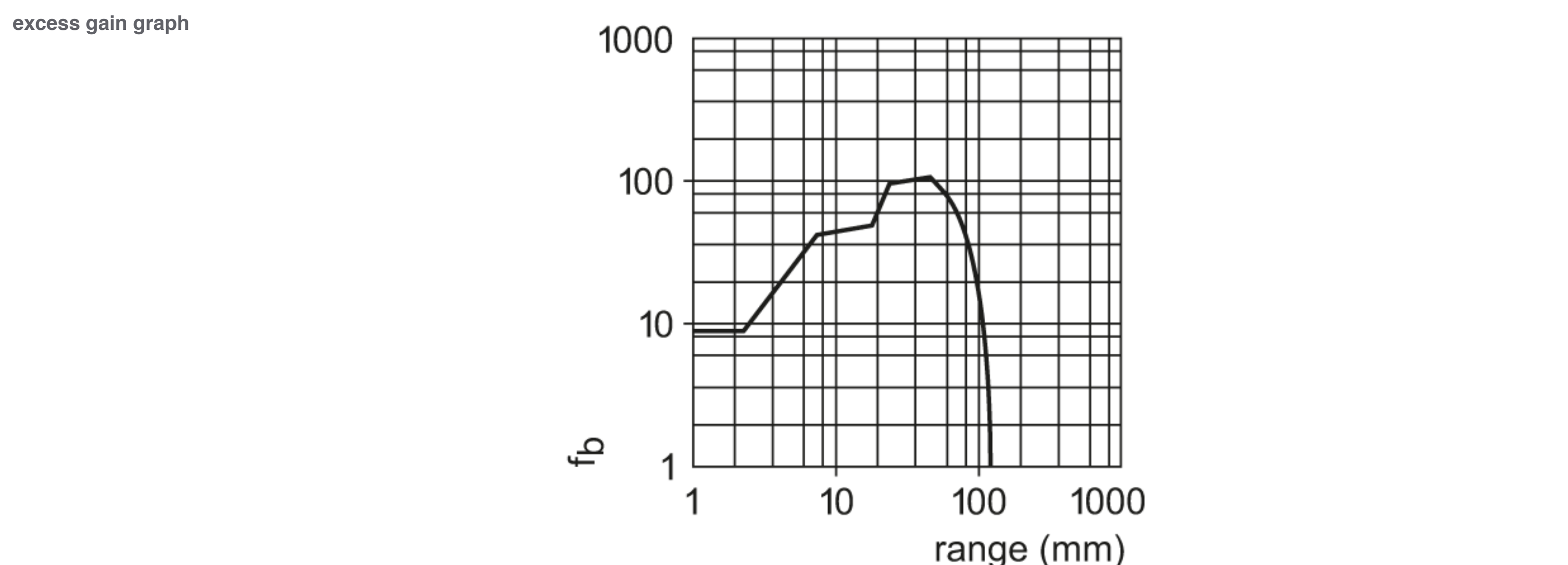
Displays / operating elements		
Display	Switching status	1 x LED, yellow
	Power	1 x LED, green
	Function	1 x LED, red


Accessories	
Items supplied	lock nuts: 2 x

Remarks	
Pack quantity	1 pcs.

Electrical connection	
Connection	Connector: 1 x M12; Contacts: gold-plated

Diagrams and graphs



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