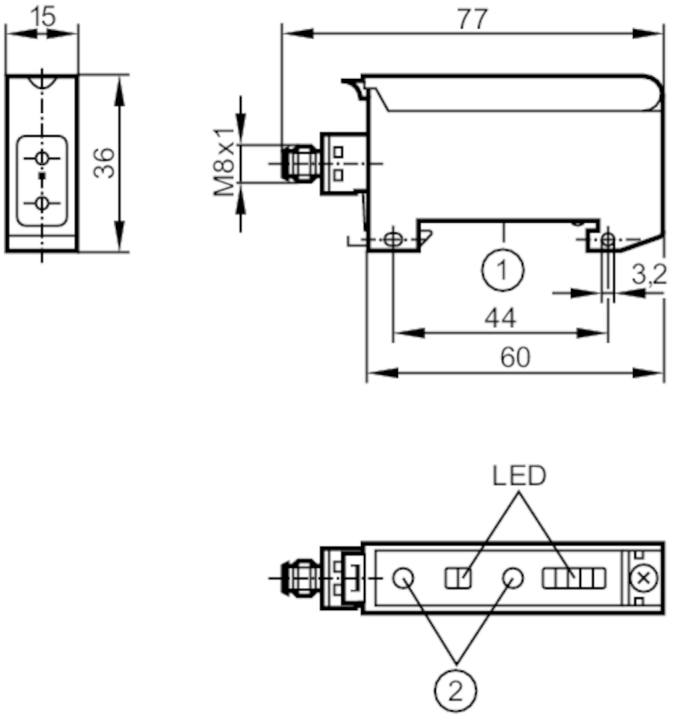
OBF503

Fiber-optic amplifier

OBF-FAKG/T/AS



1 Mounting on DIN rail
2 setting pushbuttons

Product characteristics		
Type of light		red light
Housing		rectangular
Application		
Design		Fiber optic amplifiers for acrylic fibers, Type OBF
Electrical data		
Operating voltage	[V]	10...30 DC
Current consumption	[mA]	< 50
Protection class		III
Reverse polarity protection		yes
Type of light		red light
Wave length	[nm]	630
Outputs		
Electrical design		PNP/NPN; (Automatic load detection PNP/NPN)
Output function		light-on/dark-on mode; (programmable)
Max. voltage drop switching output DC	[V]	2.5
Permanent current rating of switching output DC	[mA]	100
Switching frequency DC	[Hz]	3000
Short-circuit protection		yes

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Type of short-circuit protection		yes (non-latching)	
Overload protection		yes	
Time function	[s]	0.001...0.09	
Monitoring range			
Range	[m]	0...2; (Through-beam sensor)	
Range	[mm]	0...100; (Diffuse reflection sensor)	
Range adjustable		yes	
Operating conditions			
Ambient temperature	[°C]	-25...60	
Protection		IP 65	
Tests / approvals			
EMC		EN 60947-5-2	
MTTF	[years]	837	
Mechanical data			
Weight	[g]	48	
Housing		rectangular	
Dimensions	[mm]	36 x 15 x 60	
Material		PPE modified	
Lens alignment		Side sensing	
Displays / operating elements			
Display		Switching status	1 x LED, yellow
		Power	1 x LED, green
		Unsafe zone	1 x LED, red
		Excess gain	4 x LED, green
Remarks			
Remarks		light-on mode corresponds to the NC output function for through-beam fibers	
		corresponds to the NO output function for diffuse-reflection fibers	
		dark-on mode corresponds to the NO output function for through-beam fibers	
		corresponds to the NC output function for diffuse-reflection fiber optics	
		cULus - Class 2 source required	
Pack quantity		1 pcs.	

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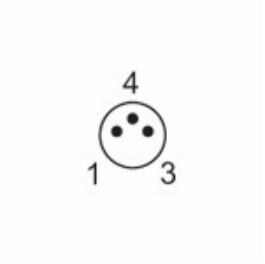
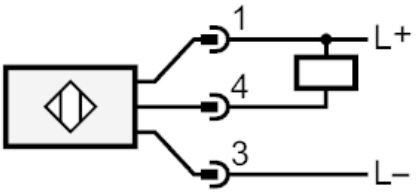
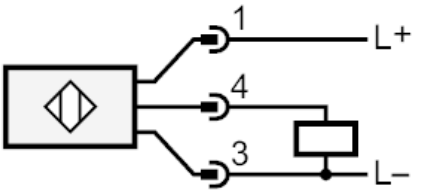
Electrical connection

Connector: 1 x M8; coding: A

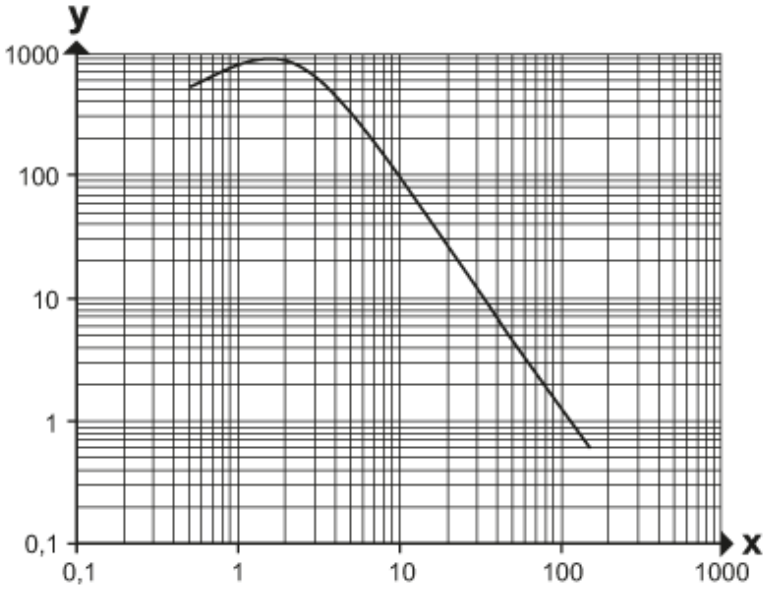






Diagrams and graphs

excess gain graph



x: Abstand [mm]

y: Funktionsreservefaktor