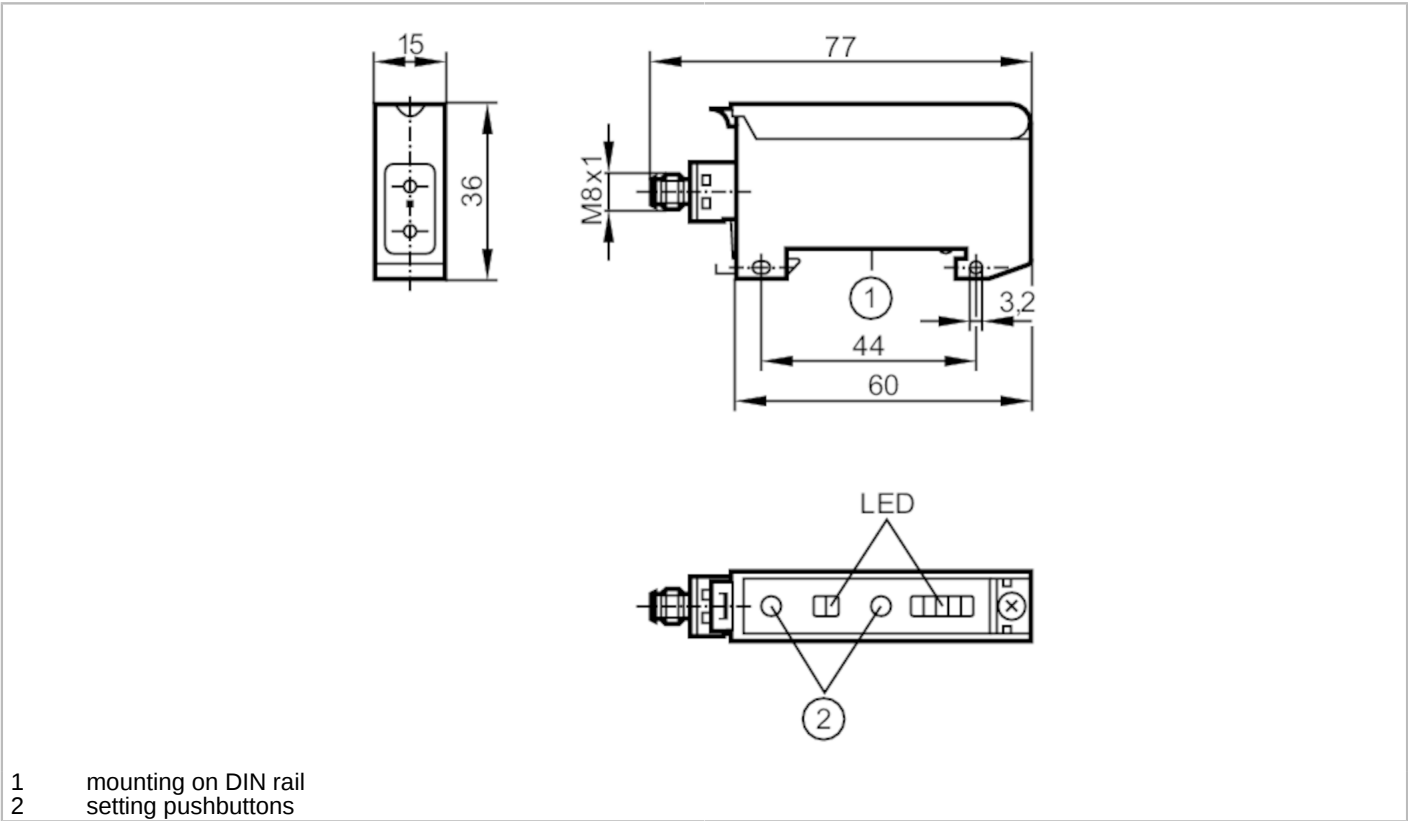


OBF503



Fibre-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	Fibre-optic amplifiers for acrylic fibre optics
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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

OBF503



Fibre-optic amplifier

OBF-FAKG/TIAS

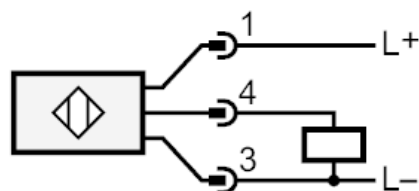
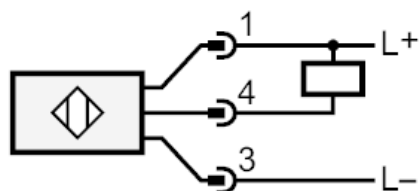
Type of short-circuit protection	pulsed	
Overload protection	yes	
Time function [s]	0.001...0.09	
Detection zone		
Range [m]	0...2; (Through-beam sensor)	
Range [mm]	0...100; (Diffuse reflection sensor)	
Range adjustable	yes	
Operating conditions		
Ambient temperature [°C]	-25...60	
Protection	IP 65	
Tests / approvals		
EMC	EN 60947-5-2	
MTTF [years]	837	
Mechanical data		
Weight [g]	48	
Housing	rectangular	
Type of mounting	mounting on DIN rail; (TH35 (EN 60715))	
Dimensions [mm]	36 x 15 x 60	
Materials	PPE modified	
Lens alignment	side lens	
Displays / operating elements		
Display	switching status	1 x LED, yellow
	operation	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 fibre optics	
	corresponds to the NO output function for diffuse-reflection fibre optics	
	dark-on mode corresponds to the NO output function for through-beam fibre optics	
	corresponds to the NC output function for diffuse-reflection fibre optics	
	operating voltage "supply class 2" according to cULus	
Pack quantity	1 pcs.	

Fibre-optic amplifier

OBF-FAKG/T/AS

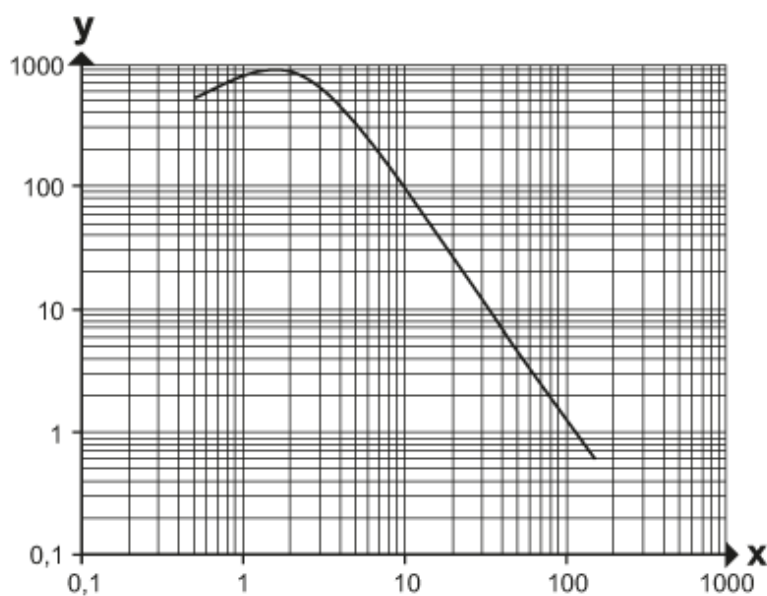
Electrical connection

Connector: 1 x M8; coding: A



Diagrams and graphs

excess gain graph



x: Abstand [mm]

y: Funktionsreservefaktor