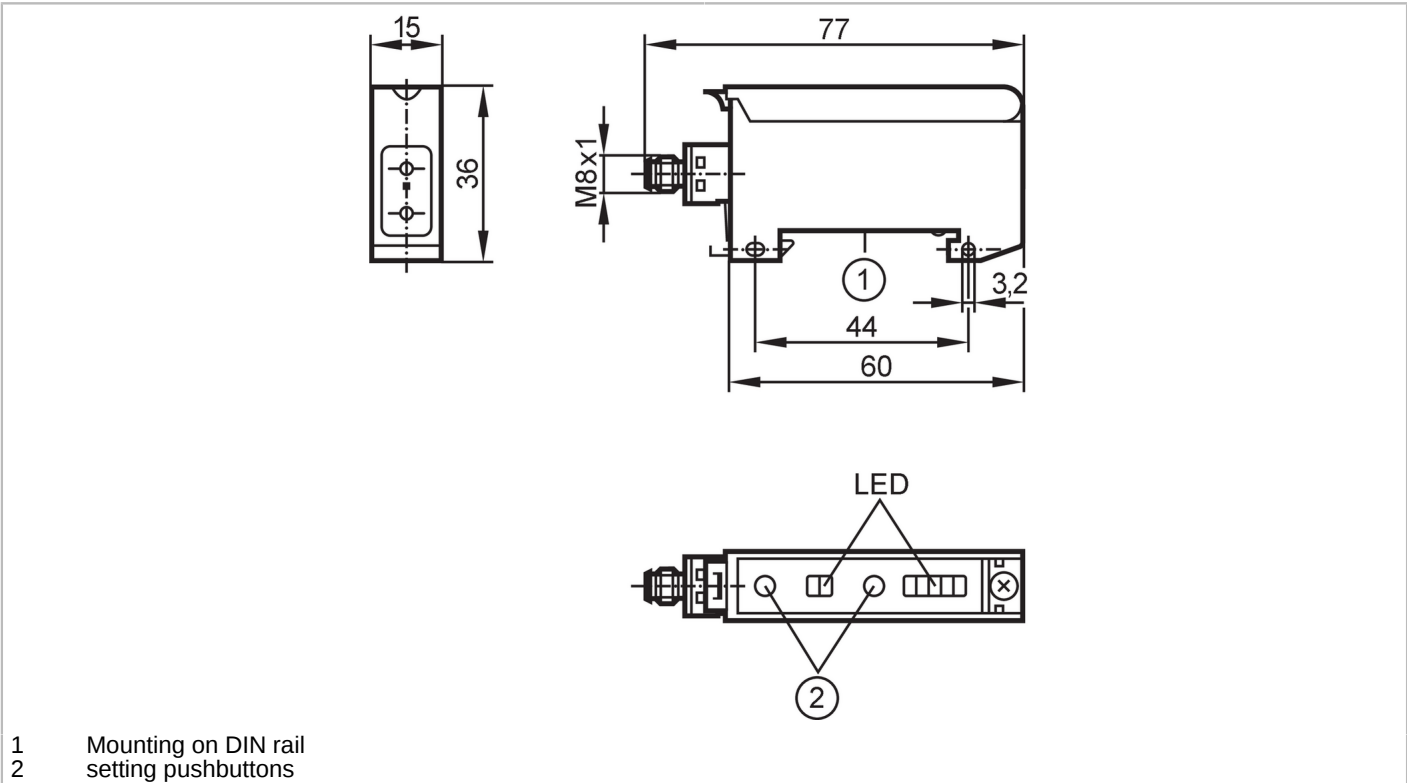


OBF503



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
Application	High switching frequency for fast processes

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



Fiber-optic amplifier

OBF-FAKG/TIAS

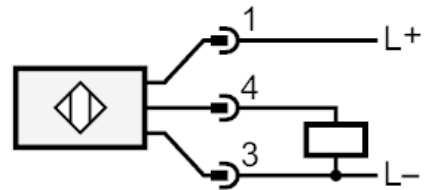
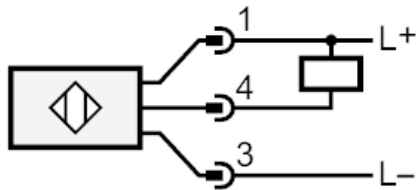
Type of short-circuit protection	yes (non-latching)	
Overload protection	yes	
Time function [s]	0.001...0.09	
Monitoring range		
Range [m]	0...2; (Through-beam sensor)	
Range [mm]	0...100; (Diffuse reflection sensor)	
Range adjustable	yes	
Operating conditions		
Ambient temperature [°C]	-25...60	
Protection	IP 65	
Tests / approvals		
EMC	EN 60947-5-2	
MTTF [years]	837	
Mechanical data		
Weight [g]	48	
Housing	rectangular	
Type of mounting	Mounting on DIN rail; (TH35 (EN 60715))	
Dimensions [mm]	36 x 15 x 60	
Number of channels	1	
Material	housing: PPE modified	
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.	

Fiber-optic amplifier

OBF-FAKG/T/AS

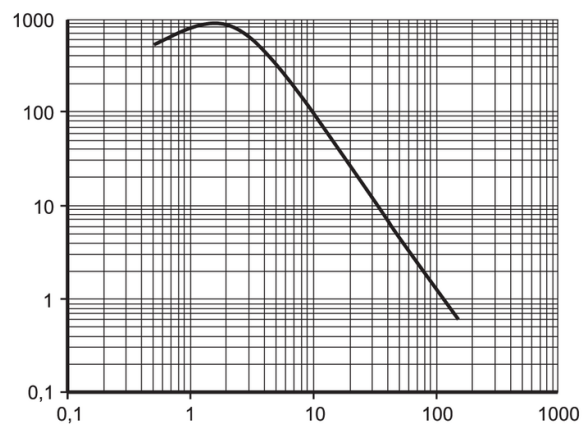
Electrical connection

Connector: 1 x M8; coding: A; Contacts: 3



Diagrams and graphs

excess gain graph



x: Abstand [mm]

y: Funktionsreservefaktor