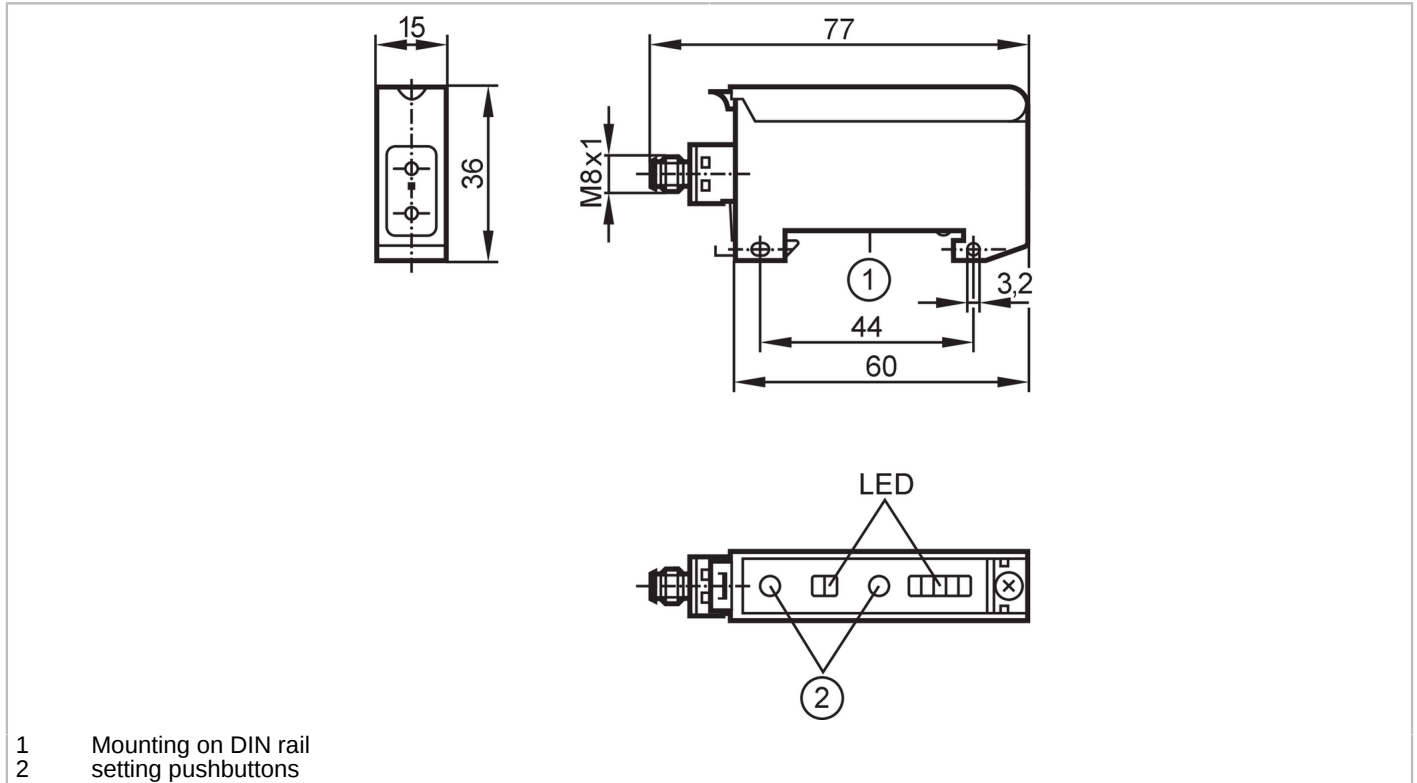


OBF501



Fiber-optic amplifier

OBF-FAKG/TIAS



Product characteristics		
Type of light		red light
Housing		rectangular
Application		
Special feature		Function check output
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
Function check output		yes
Max. voltage drop of function check output	[V]	2.5

OBF501



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Max. current load for function check output [mA]	10
Permanent current rating of switching output DC [mA]	100
Switching frequency DC [Hz]	3000
Short-circuit protection	yes
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]	806

Mechanical data

Weight [g]	48.35
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.

Electrical connection

Connector: 1 x M8; coding: A; Contacts: 4



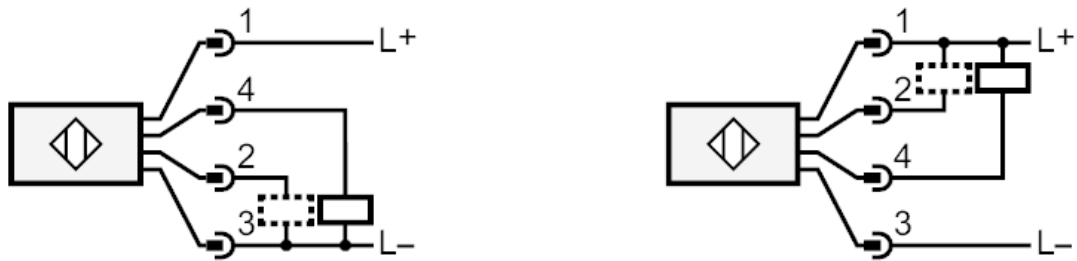
OBF501



Fiber-optic amplifier

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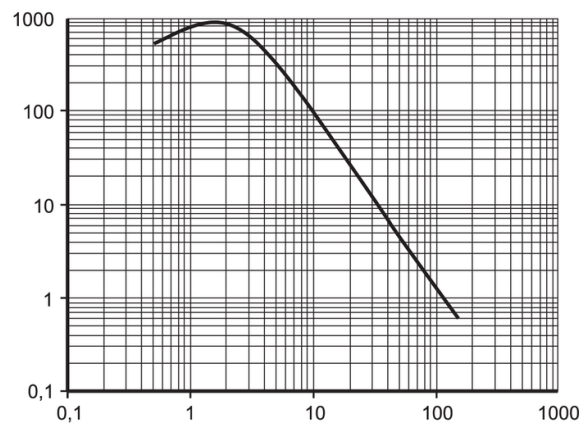
Connection



2 Function check output

Diagrams and graphs

excess gain graph



x: Abstand [mm]

y: Funktionsreservfaktor