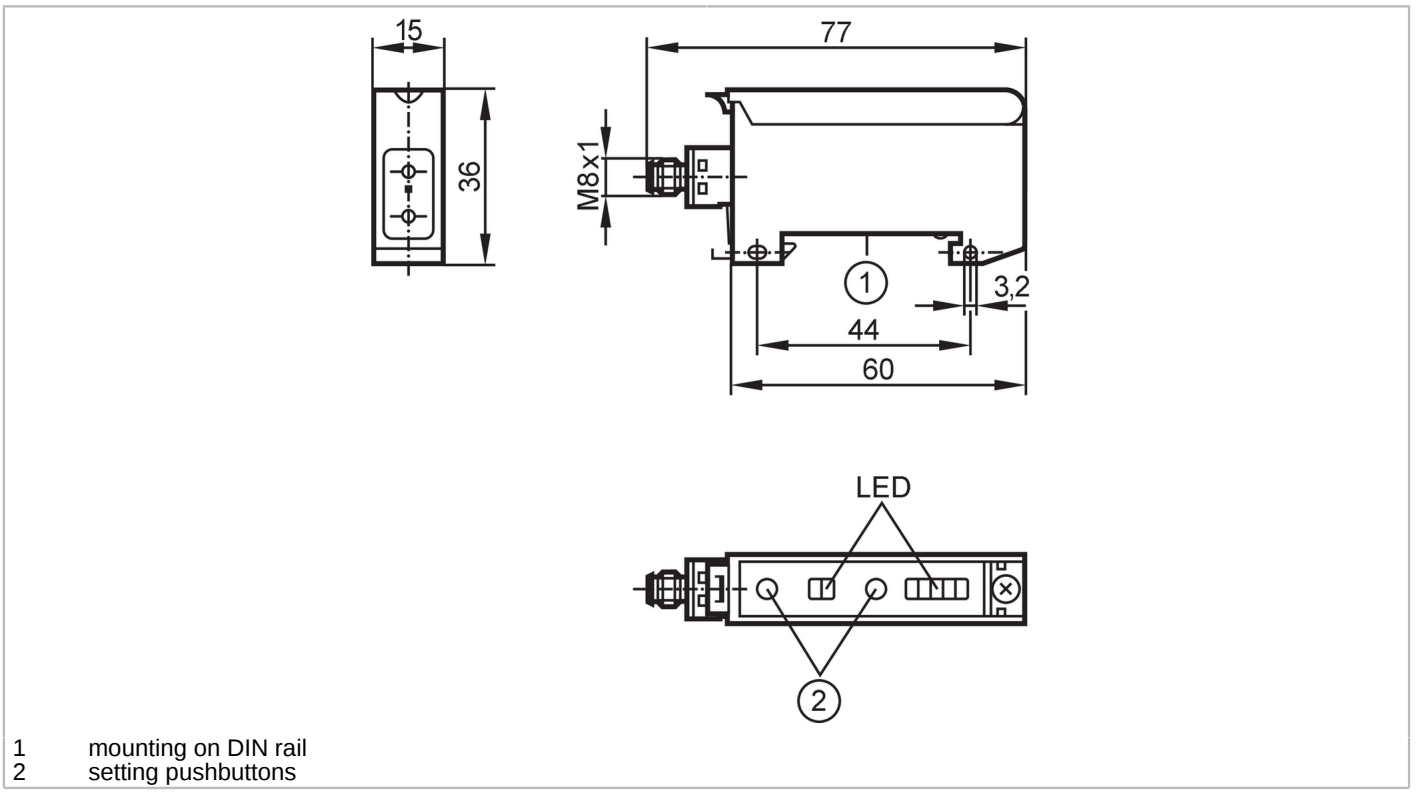
OBF501

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		
Special feature		Function check output
Design		Fibre-optic amplifiers for acrylic fibre optics
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

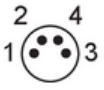
Fibre-optic amplifier

OBF-FAKG/T/AS

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	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]	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	
Materials	housing: PPE modified	
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.	

Electrical connection

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

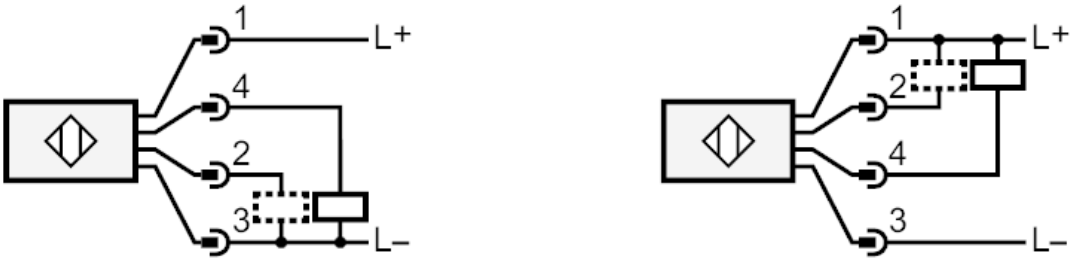


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Fibre-optic amplifier

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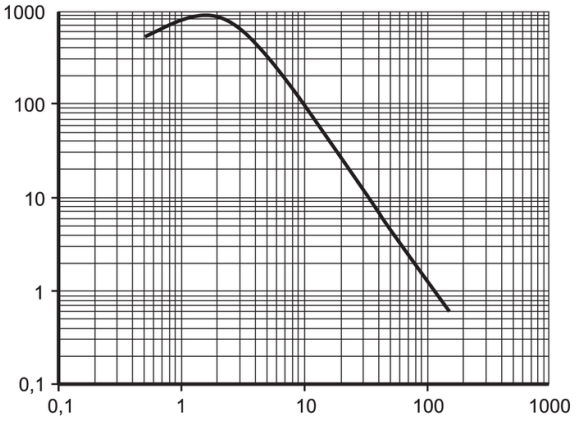
Connection



2 Function check output

Diagrams and graphs

excess gain graph



x: Abstand [mm]

y: Funktionsreservefaktor