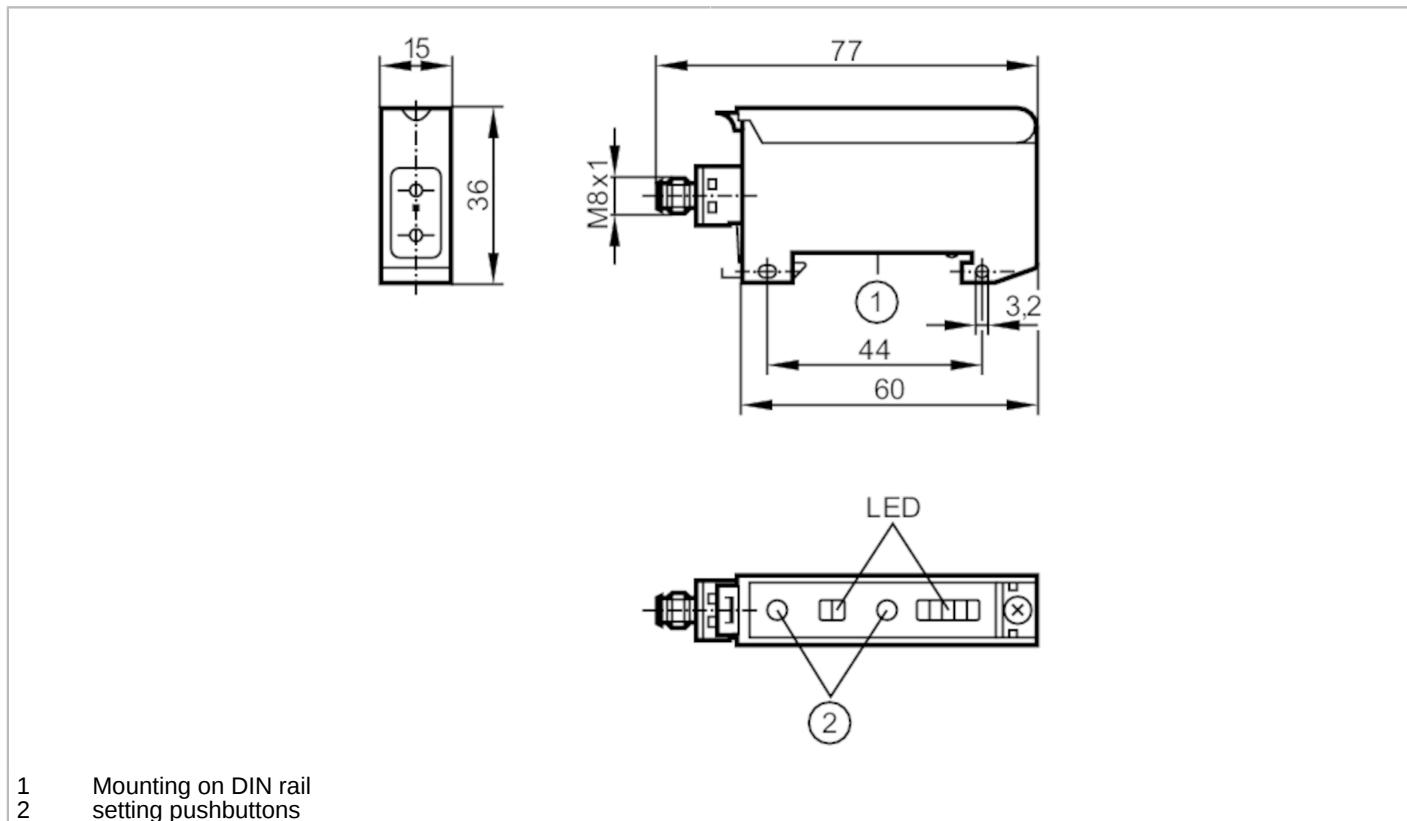


OBF501

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

System	Function check output
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
Function check output	yes
Max. voltage drop of function check output [V]	2.5

OBF501



Fiber-optic amplifier

OBF-FAKG/T/AS

Max. current load for function [mA]		10
check output		
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
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.

Fiber-optic amplifier

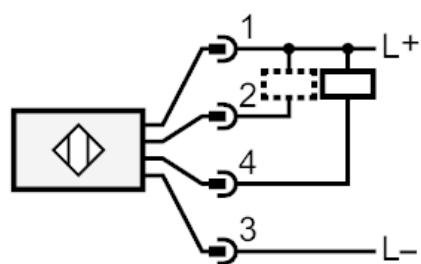
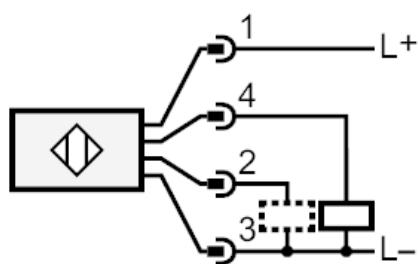
OBF-FAKG/T/AS

Electrical connection

Connector: 1 x M8; coding: A



Connection



2

Function check output

Diagrams and graphs

excess gain graph

