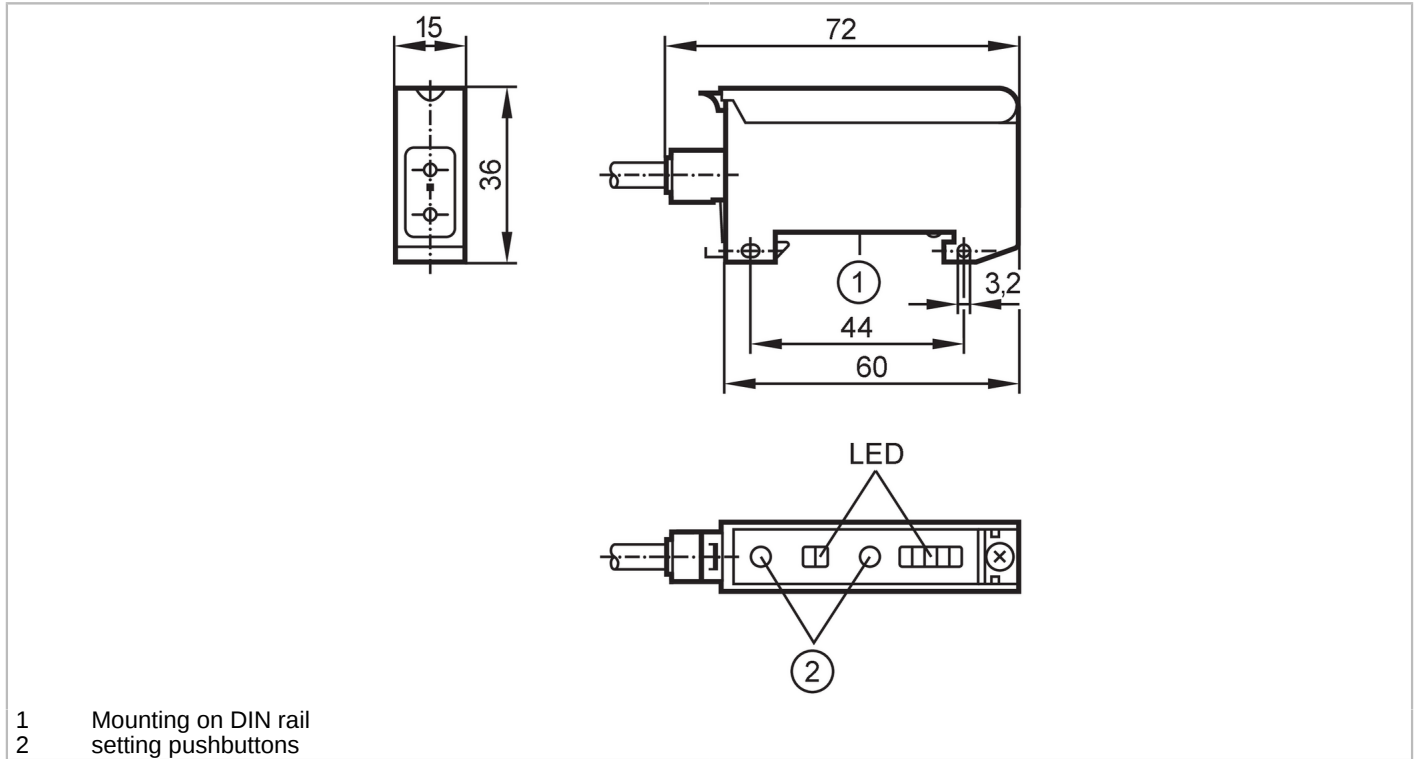


# OBF502



## Fiber-optic amplifier

OBF-FAKG/T



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

# OBF502



## Fiber-optic amplifier

OBF-FAKG/T

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]	136.5
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.

# OBF502



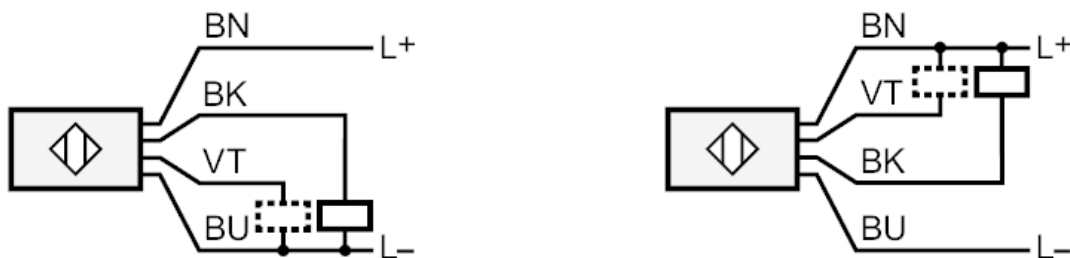
## Fiber-optic amplifier

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### Electrical connection

Cable: 2 m, PVC; 4 x 0.34 mm<sup>2</sup>

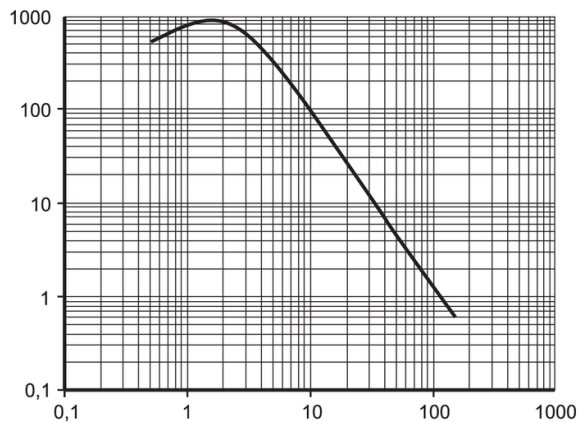
### Connection



lilac                      Function check output  
Core colors :  
BK =                      black  
BN =                      brown  
BU =                      blue  
VT =                      lilac

### Diagrams and graphs

excess gain graph



x: Abstand [mm]  
y: Funktionsreservfaktor