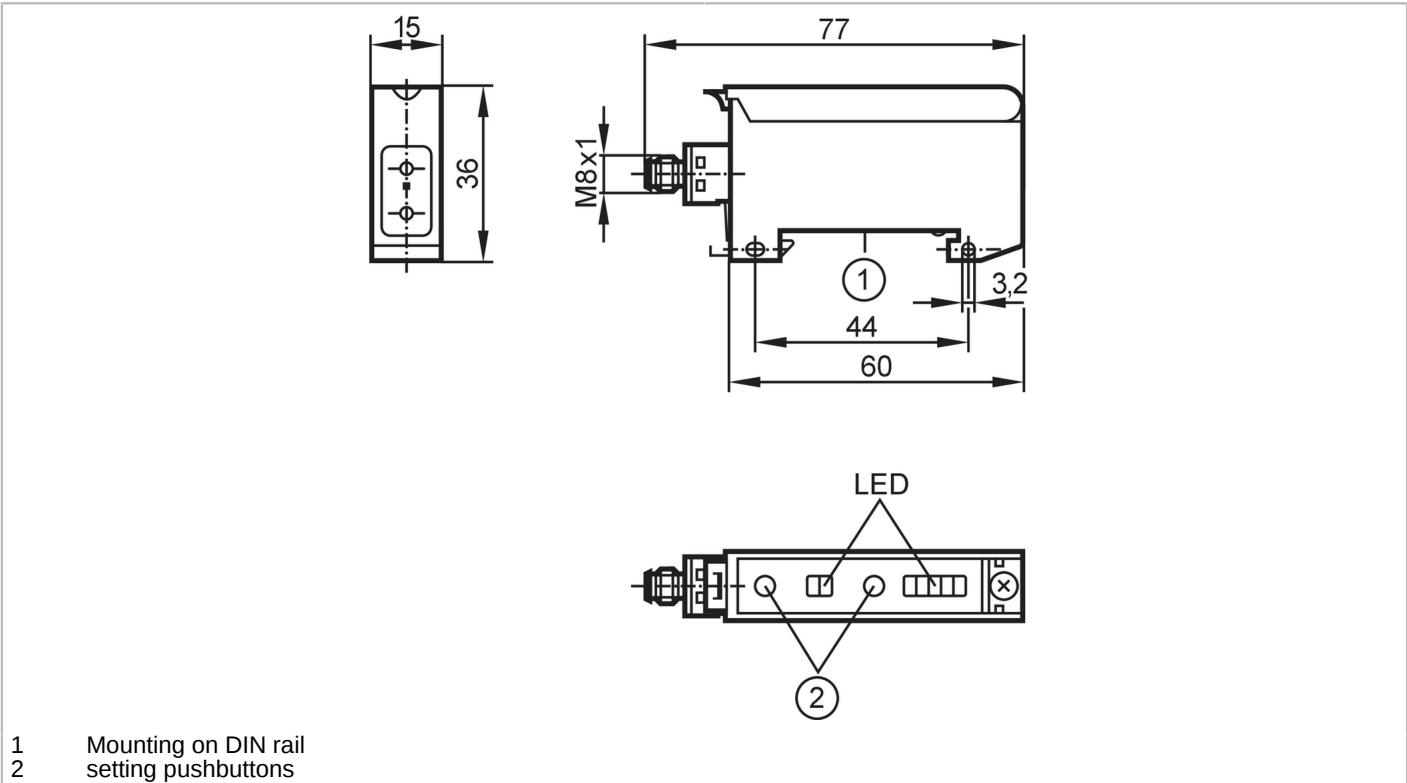


OBF505



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

Special feature	Function check output
Design	Fiber optic amplifiers for glass fibers, Type OBF, for fibers with metal sheath, FE/FT-50
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

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

OBF505



Fiber-optic amplifier

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Permanent current rating of switching output DC	[mA]	100
Switching frequency DC	[Hz]	1000
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...1; (Through-beam sensor)
Range	[mm]	0...150; (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]	47.8
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		
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Connector: 1 x M8; coding: A; Contacts: 4



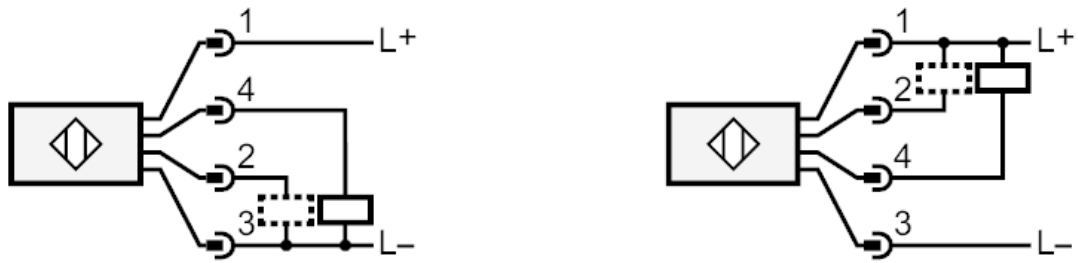
OBF505



Fiber-optic amplifier

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Connection



2

Function check output