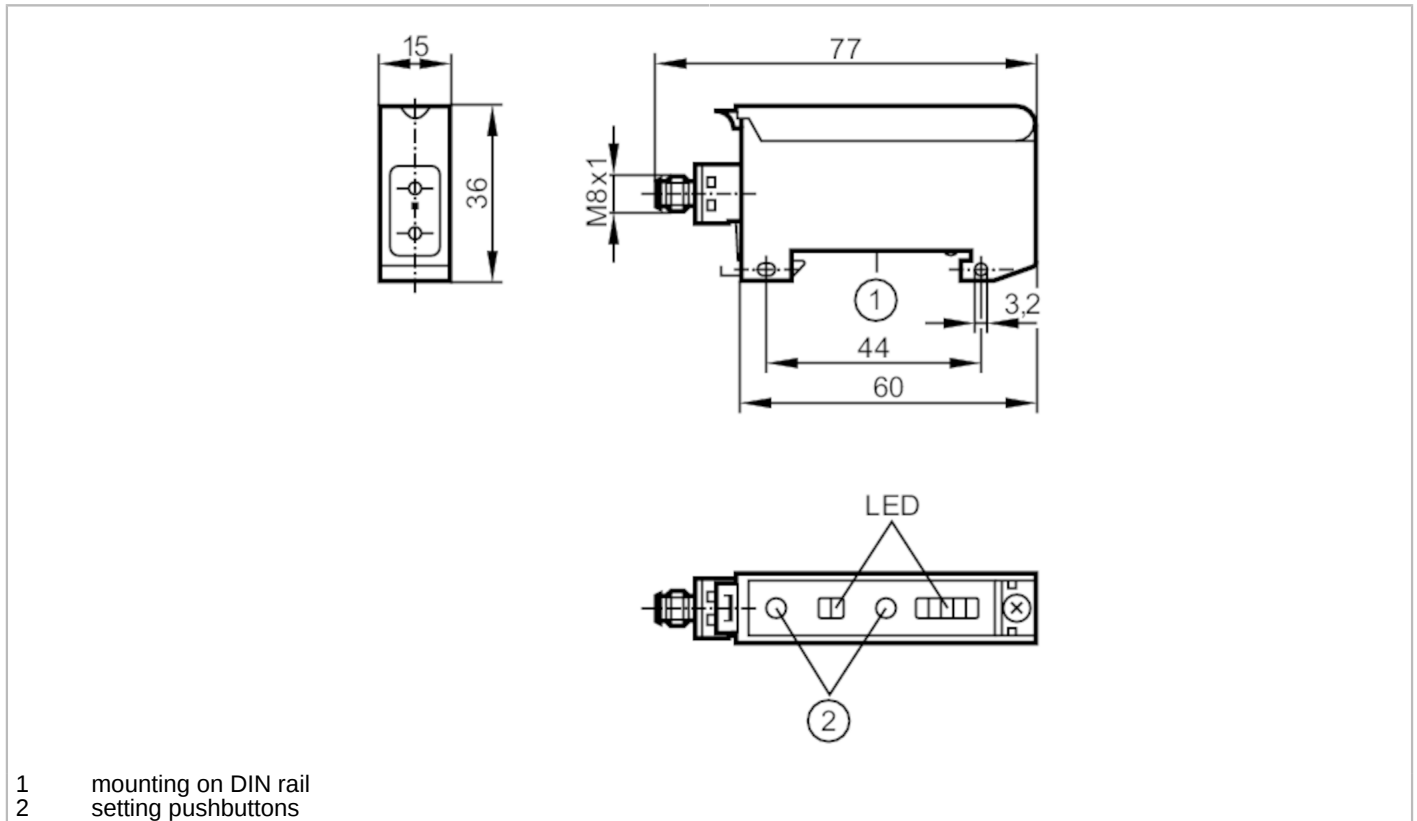


# OBF503



## Fibre-optic amplifier

OBF-FAKG/TIAS



- 1 mounting on DIN rail
- 2 setting pushbuttons



Product characteristics		
Type of light		red light
Housing		rectangular
Application		
Design		Fibre-optic amplifiers for acrylic fibre optics
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
Permanent current rating of switching output DC	[mA]	100
Switching frequency DC	[Hz]	3000
Short-circuit protection		yes

# OBF503



## Fibre-optic amplifier

OBF-FAKG/TIAS

Type of short-circuit protection		pulsed
Overload protection		yes
Time function	[s]	0.001...0.09
<b>Detection zone</b>		
Range	[m]	0...2; (Through-beam sensor)
Range	[mm]	0...100; (Diffuse reflection sensor)
Range adjustable		yes
<b>Operating conditions</b>		
Ambient temperature	[°C]	-25...60
Protection		IP 65
<b>Tests / approvals</b>		
EMC		EN 60947-5-2
MTTF	[years]	837
<b>Mechanical data</b>		
Weight	[g]	67
Housing		rectangular
Dimensions	[mm]	36 x 15 x 60
Materials		PPE modified
Lens alignment		side lens
<b>Displays / operating elements</b>		
Display	switching status	1 x LED, yellow
	operation	1 x LED, green
	unsafe zone	1 x LED, red
	excess gain	4 x LED, green
<b>Remarks</b>		
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.

# OBF503

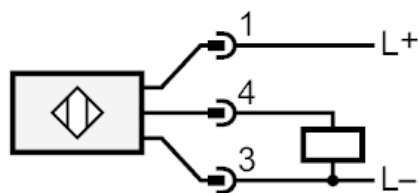
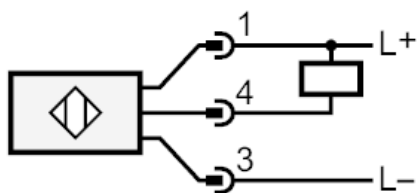


## Fibre-optic amplifier

OBF-FAKG/TIAS

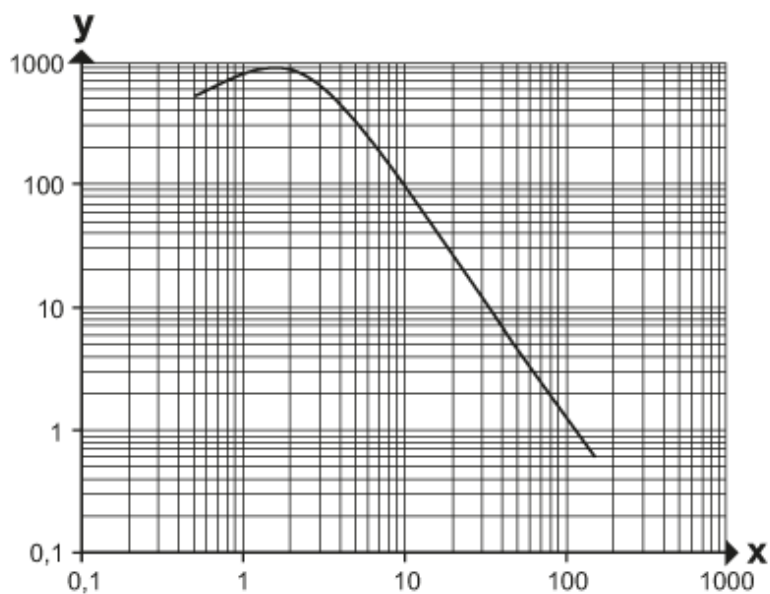
### Electrical connection

Connector: 1 x M8; coding: A



### Diagrams and graphs

excess gain graph



x: Abstand [mm]

y: Funktionsreservfaktor