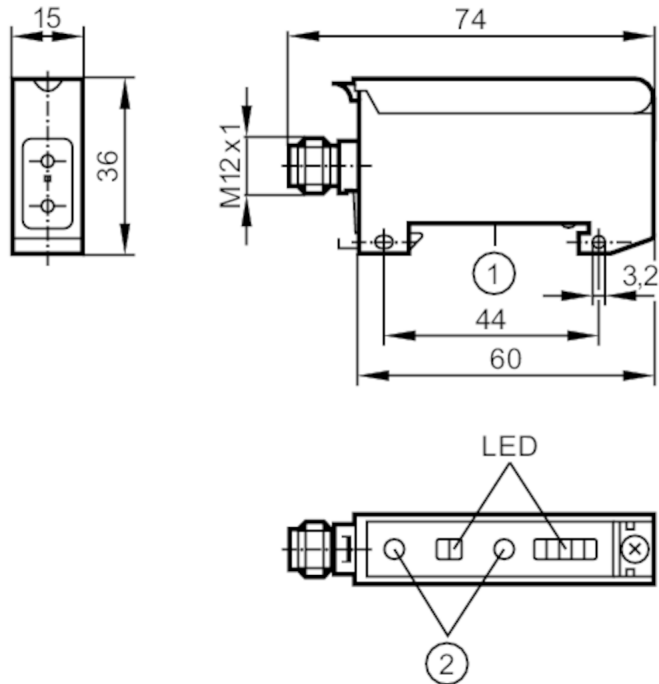


OBF500



Fibre-optic amplifier

OBF-FAKG/T/US



- 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

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

OBF500



Fibre-optic amplifier

OBF-FAKG/T/US

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]	47.9
Housing		rectangular
Dimensions	[mm]	36 x 15 x 60
Materials		PPE modified
Lens alignment		side lens

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.

Fibre-optic amplifier

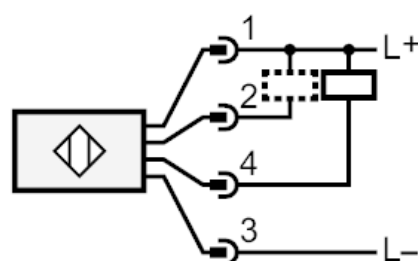
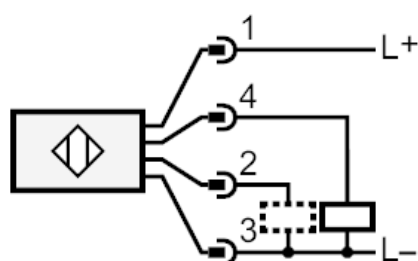
OBF-FAKG/T/US

Electrical connection

Connector: 1 x M12; coding: A



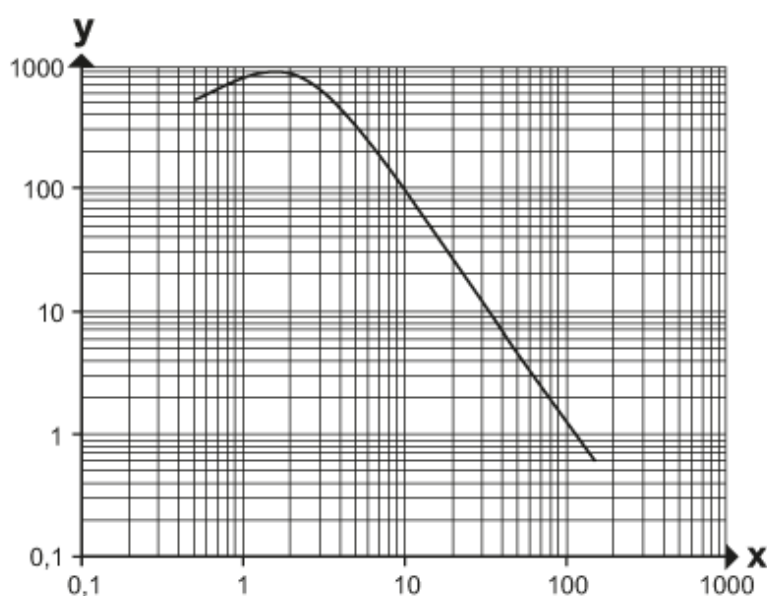
Connection



2 Function check output

Diagrams and graphs

excess gain graph



x: Abstand [mm]

y: Funktionsreservefaktor