

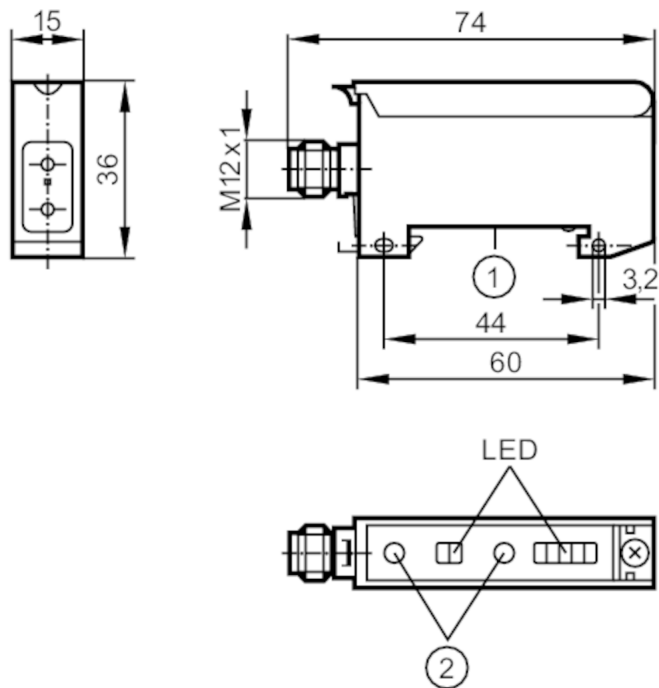
OBF512



Fiber-optic amplifier

OBF-FAKG/T/US

customer-specific



- 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

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
Permanent current rating of switching output DC	[mA]	100
Switching frequency DC	[Hz]	3000



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Short-circuit protection	yes	
Type of short-circuit protection	yes (non-latching)	
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]	830	
Mechanical data		
Weight [g]	47.45	
Housing	rectangular	
Dimensions [mm]	36 x 15 x 60	
Material	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	
Notes	customer-specific	
Pack quantity	1 pcs.	

Electrical connection

Connector: 1 x M12; coding: A

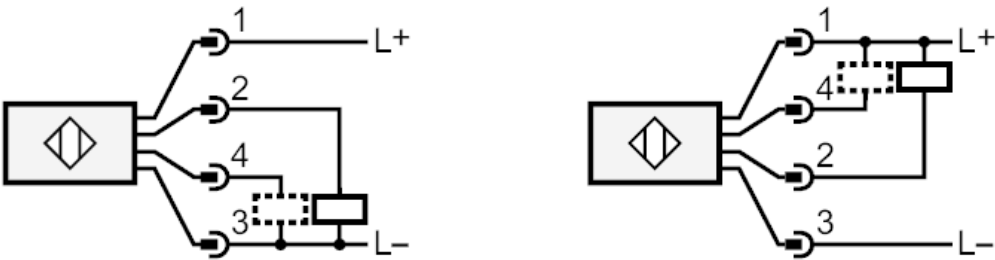




Fiber-optic amplifier

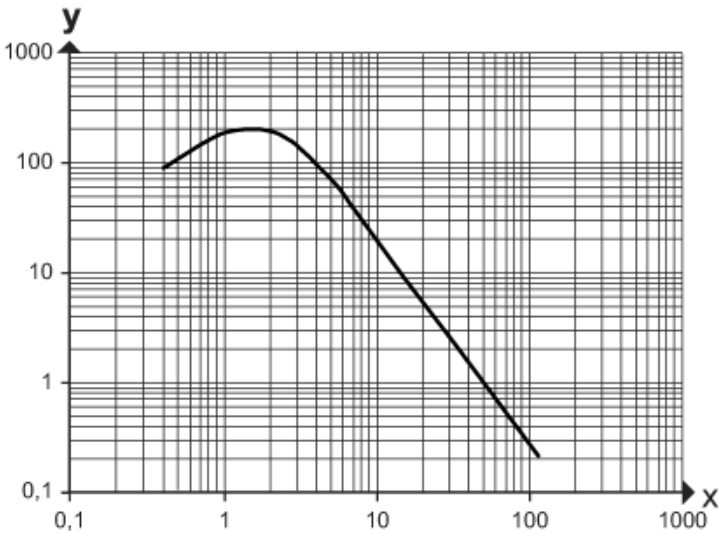
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Connection



4 Function check output

Diagrams and graphs



x distance [mm]
y excess gain graph