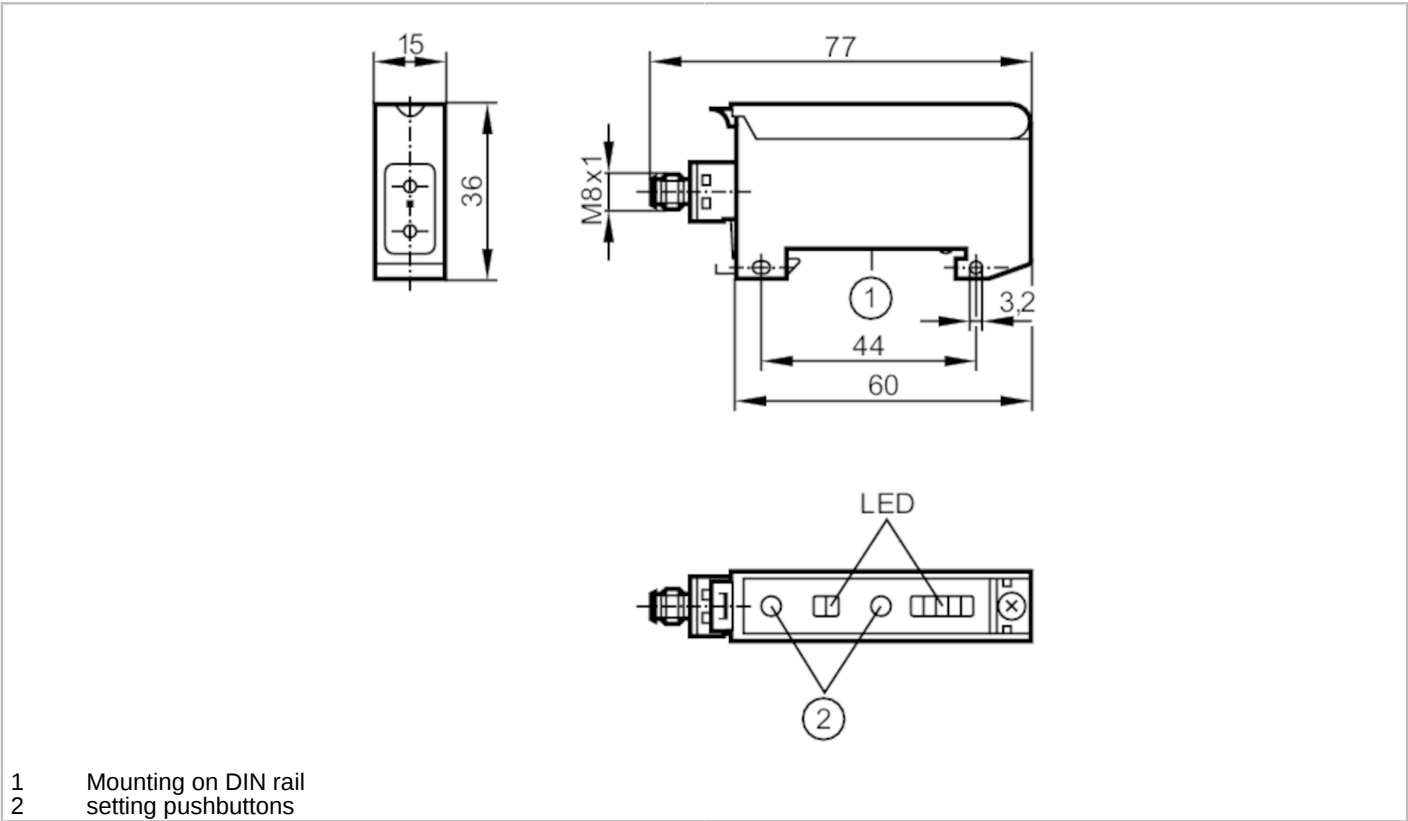


OBF505



Fiber-optic amplifier

OBF-FAKG/T/AS



Product characteristics		
Type of light		red light
Housing		rectangular
Application		
System		Function check output
Design		Fiber optic amplifiers for glass fibers, Type OBF, for fibers with metal sheath, FE/FT-50
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

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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
Dimensions	[mm]	36 x 15 x 60
Material		PPE modified
Lens alignment		Side sensing

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

Connector: 1 x M8; coding: A



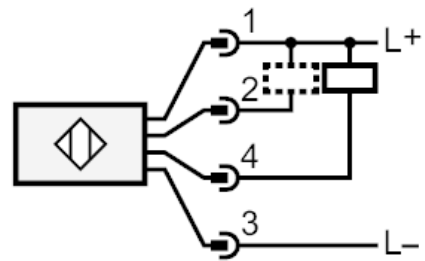
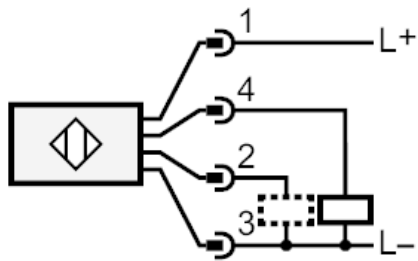
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Fiber-optic amplifier

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Connection



2

Function check output