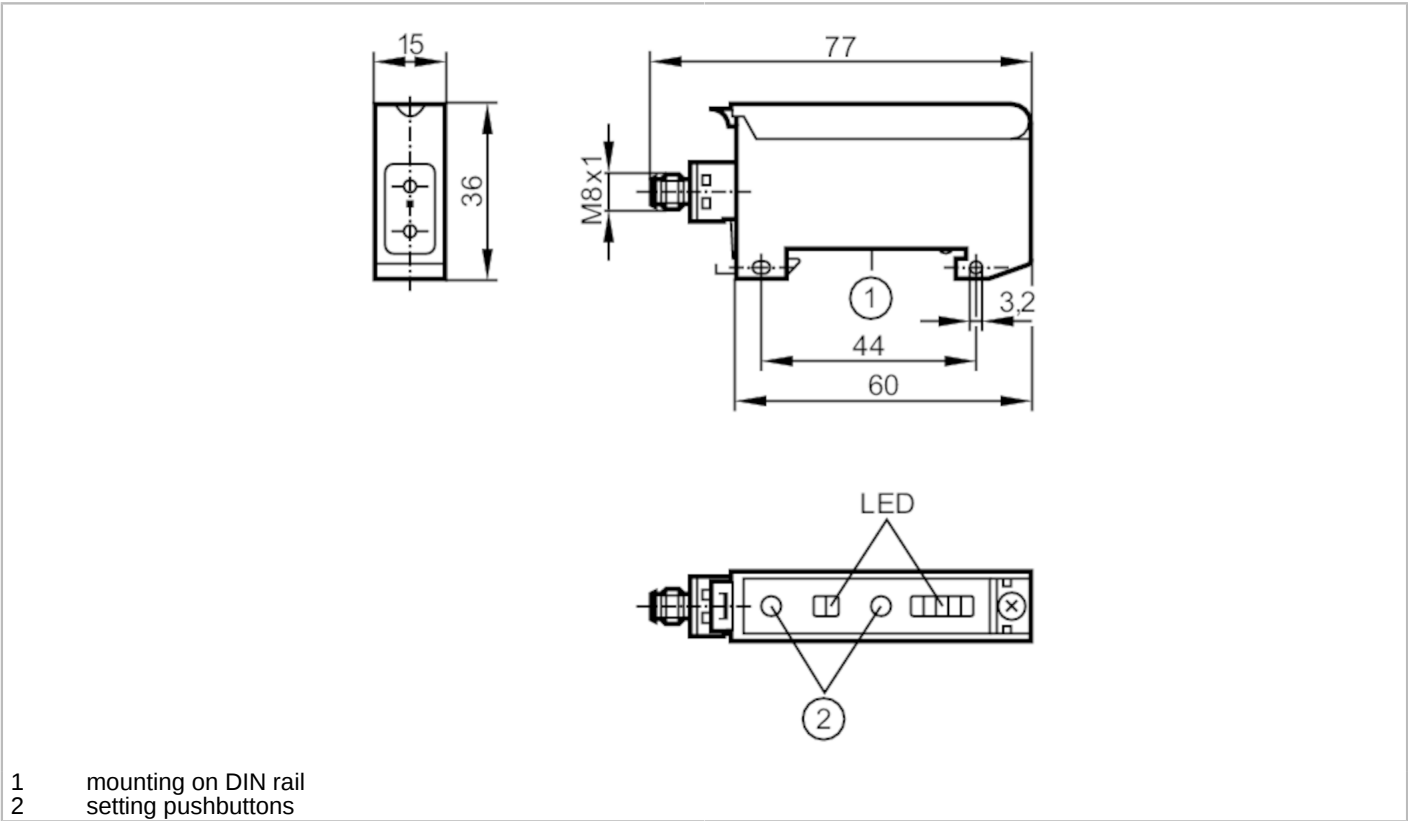


OBF505



Fibre-optic amplifier

OBF-FAKG/T/AS



Product characteristics		
Type of light		red light
Housing		rectangular
Application		
Special feature		Function check output
Design		Fibre-optic amplifiers for glass fibre optics, for fibre optics 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

OBF505



Fibre-optic amplifier

OBF-FAKG/TIAS

Permanent current rating of switching output DC	[mA]	100
Switching frequency DC	[Hz]	1000
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...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
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.

Electrical connection

Connector: 1 x M8; coding: A



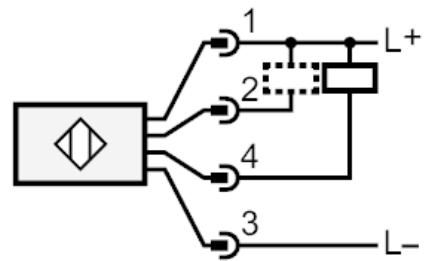
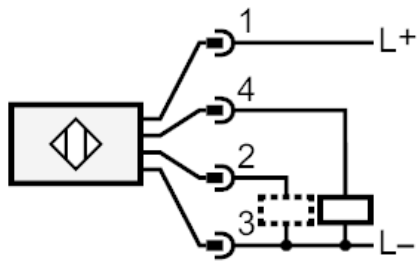
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Fibre-optic amplifier

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Connection



2

Function check output