

Fibre-optic amplifier

OBF-FNKG/T/US-100

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Alternative articles: OBF500

When selecting an alternative article and accessories please note that technical data may differ!



- 1 mounting on DIN rail
2 setting pushbuttons

Product characteristics

Type of light	red light
Housing	rectangular

Application

Special feature	Function check output
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Electrical data

Operating voltage [V]	10...36 DC
Current consumption [mA]	35; ((36 V))
Protection class	II
Reverse polarity protection	yes
Type of light	red light
Wave length [nm]	660

Outputs

Electrical design	NPN
Output function	light-on/dark-on mode; (parameterisable)
Max. voltage drop switching output DC [V]	2.5
Function check output	yes
Max. voltage drop of function check output [V]	3.5



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Max. current load for function check output	[mA]	10
Permanent current rating of switching output DC	[mA]	100
Switching frequency DC	[Hz]	500
Short-circuit protection		yes
Type of short-circuit protection		pulsed
Overload protection		yes
Time function	[s]	0.002...0.09

Detection zone

Range	[m]	0...1.2; (Through-beam sensor)
Range	[mm]	0...70; (Diffuse reflection sensor)
Range adjustable		yes

Operating conditions

Ambient temperature	[°C]	-25...60
Protection		IP 65

Tests / approvals

EMC	EN 60947-5-2	
	EN 55011	class B

Mechanical data

Housing		rectangular
Dimensions	[mm]	36 x 15 x 60
Materials		PPE modified

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 M12; coding: A



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Connection



2 Function check output

Diagrams and graphs

excess gain graph

