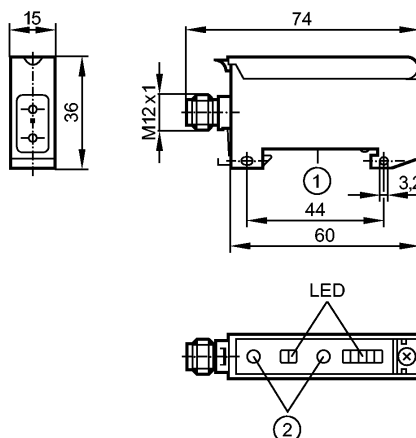


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Alternative article: OBF504

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1: Mounting on DIN rail

2: setting pushbuttons

Made in Germany



Product characteristics

Fibre-optic amplifier

Rectangular, plastics

Connector

Function check output

excess gain LEDs

For fibre optics with metal sheath

for FE/FT-50 fibres

Sensing range 0...1000mm (Through-beam sensor)

Range 0...150mm (Diffuse reflection sensor)

adjustable

Electrical data

Electrical design	DC NPN
Operating voltage [V]	10...36 DC
Current consumption [mA]	< 35
Type of light	Red light 660 nm
Protection class	III
Reverse polarity protection	yes

Outputs

Output function	light-on / dark-on programmable
Voltage drop	
- Switching output [V]	< 2.5
- Function check output [V]	< 3.5
Current rating	
- Switching output [mA]	100
- Function check output [mA]	10
Short-circuit protection	pulsed
Overload protection	yes

OB5027

OBF-FNKG/T/US

Photoelectric sensors

Switching frequency	[Hz]	500
Timer	[s]	0.002...0.09

Range		
Sensing range	[m]	0...1 (Through-beam sensor)
Range	[mm]	0...150 (Diffuse reflection sensor)

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

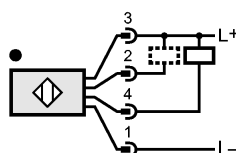
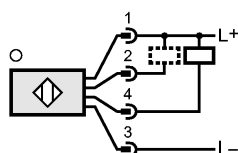
Tests / approvals		
EMC	EN 60947-5-2 EN 55011:	class B
MTTF	[Years]	441

Mechanical data		
Housing materials		ABS
Lens material		PMMA
Weight	[kg]	0.062

Displays / operating elements		
Output status indication	LED	yellow
Operation	LED	green
Unsafe zone	LED	Red
Excess gain	LED	4 x green

Electrical connection		
Connection		M12 connector

Wiring



2: function check

Remarks	
Remarks	<p>When through-beam fibre optics are connected light-on mode means the output function "NC" and when diffuse reflection fibre optics are connected the output function "NO".</p> <p>When through-beam fibre optics are connected dark-on mode means the output function "NO" and when diffuse reflection fibre optics are connected the output function "NC"</p>
Pack quantity	[piece] 1

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