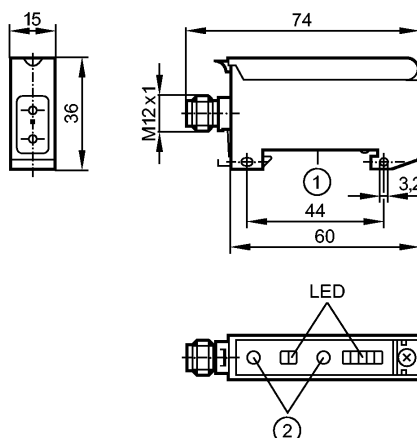


OBF504

OBF-FAKG/T/US

Photoelectric sensors



- 1: Mounting on DIN rail
2: setting pushbuttons

Made in Germany



Product characteristics

Fibre-optic amplifier

Rectangular, plastics

Connector

For fibre optics with metal sheath

for FE/FT-50 fibres

Function check output

Automatic detection PNP/NPN

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

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

adjustable

Electrical data

Electrical design	DC PNP/NPN
Operating voltage [V]	10...30 DC
Current consumption [mA]	< 50
Type of light	Red light
Protection class	III
Reverse polarity protection	yes

Outputs

Output function	light-on / dark-on programmable
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Voltage drop

- Switching output [V]	< 2.5
- Function check output [V]	< 2.5

Current rating

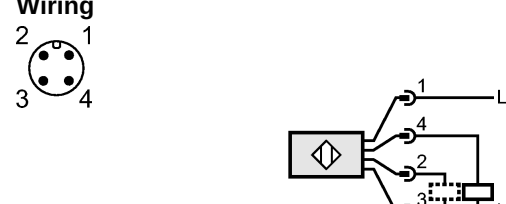
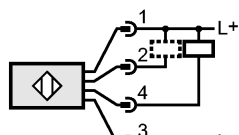
- Switching output [mA]	100
- Function check output [mA]	10
Short-circuit protection	pulsed
Overload protection	yes
Switching frequency [Hz]	1000
Timer [s]	0.001...0.09

Range

OBF504

OBF-FAKG/T/US

Photoelectric sensors

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
MTTF	[Years]	806
Mechanical data		
Housing materials		modified PPE
Weight	[kg]	0.064
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	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". 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" cULus - Class 2 source required	
Pack quantity	[piece]	1