

1: Mounting on DIN rail
2: setting pushbuttons

Made in Germany



Product characteristics

Fibre-optic amplifier

Rectangular, plastics

Cable

For fibre optics with plastic sheath

Series FE/FT-11

Function check output

Automatic detection PNP/NPN

Sensing range 0...2000mm (Through-beam sensor)

Range 0...100mm (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 630 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]

< 2.5

Current rating

- Switching output [mA]

100

- Function check output [mA]

10

Short-circuit protection

pulsed

Overload protection

yes

Switching frequency [Hz]

3000

Timer [s]

0.001...0.09

Range

Sensing range [m]

0...2 (Through-beam sensor)

Range [mm]

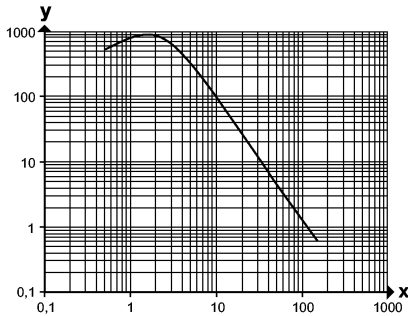
0...100 (Diffuse reflection sensor)

Excess gain graphs

x: distance in [mm]

OBF502 - Fibre-optic amplifier - eclass: 27270905 / 27-27-09-05

y: excess gain factor

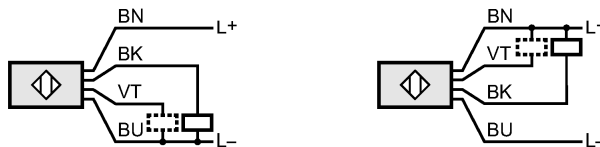


Environment		
Ambient temperature	[°C]	-25...60
Protection		IP 65
Tests / approvals		
EMC		EN 60947-5-2
MTTF	[Years]	806
Mechanical data		
Housing materials		modified PPE
Weight	[kg]	0.148
Displays / operating elements		
Output status indication	LED	yellow
Operation	LED	green
Unsafe zone	LED	red
Excess gain	LED	4 x green
Electrical connection		
Connection		PVC cable / 2 m; 4 x 0.34 mm ²

Wiring

Core colours

- BK black
- BN brown
- BU blue
- VT lilac



VT: 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> <p>cULus - Class 2 source required</p>
Pack quantity	[piece] 1