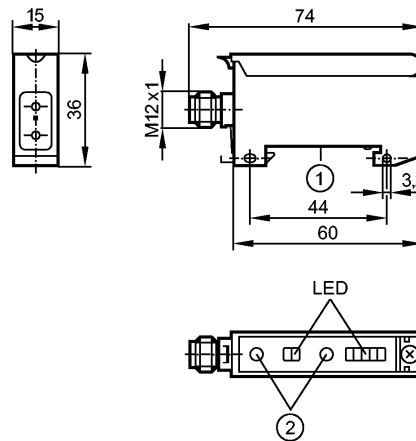


**OBF500**

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 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
<b>Voltage drop</b>	
- Switching output [V]	< 2.5
- Function check output [V]	< 2.5
<b>Current rating</b>	
- 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

**OBF500**

Photoelectric sensors

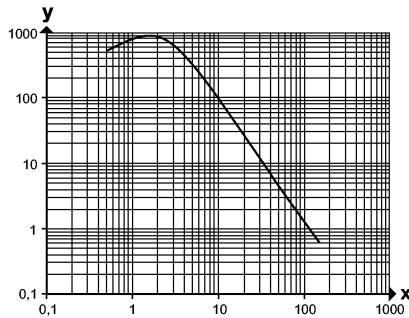
**Range**

Sensing range [m]	0...2 (Through-beam sensor)
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**Excess gain graphs**

x: distance in [mm]

y: excess gain factor



**Environment**

Ambient temperature [°C]	-25...60
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Protection	IP 65
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**Tests / approvals**

EMC	EN 60947-5-2
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MTTF [Years]	806
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**Mechanical data**

Housing materials	modified PPE
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Weight [kg]	0.065
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**Displays / operating elements**

Output status indication	LED	yellow
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Operation	LED	green
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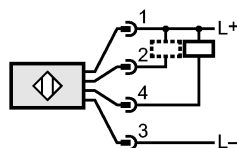
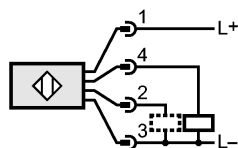
Unsafe zone	LED	red
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Excess gain	LED	4 x green
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**Electrical connection**

Connection	M12 connector
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**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> <p>cULus - Class 2 source required</p>
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