



Photoelectric sensors

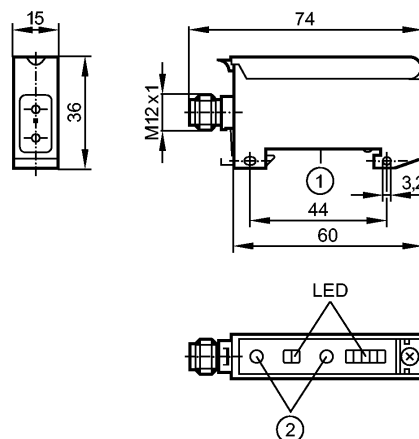
OBF500

OBF-FAKG/T/US
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



1: mounting on DIN rail
2: setting pushbuttons

Made in Germany



Electrical design

Timer[s]

Output

Operating voltage	[V]
Current rating	
Switching output	[mA]
Function check output	[mA]
Short-circuit protection	
Reverse polarity protection	
Overload protection	
Voltage drop	
Switching output	[V]
Function check output	[V]
Current consumption	[mA]
Switching frequency	[Hz]
Type of light	
Ambient temperature	[°C]
Protection	
EMC	
Housing materials	
Function display	
Switching status	LED
Operation	LED
Excess gain	LED
Unsafe zone	LED

DC PNP/NPN

0.001...0.09

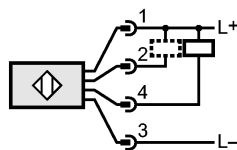
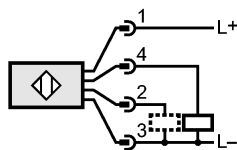
light-on / dark-on programmable

10...30 DC
100
10
pulsed
yes
yes
< 2.5
< 2.5
< 50
3000
red light 630 nm
-25...60
IP 65, III
EN 60947-5-2
modified PPE
yellow
green
4 x green
red

OBF500

Connection	M12 connector
Weight [kg]	0.066
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

Wiring



2 : function check

Excess gain graphs

x: distance in [mm]

y: excess gain factor

