



**OBR40-62,5-LC**  
Part Number: 942 088-201

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Optical bypass relay - MM 62,5/125 µm

## Product Description

Fibre-optic relay to bypass Ethernet switches in case of power failure. Compatible with multimode fibres 62,5/125 µm. Suitable for all data rates and all kinds of data protocols.

## Product Specifications

### Ambient conditions

Operating temperature:	-30-+70 °C
MTBF:	30
Storage/transport temperature:	-40-+85 °C
Relative humidity (non-condensing):	10-95 %

### Electrical interfaces

Power supply/signaling contact:	4-pin terminal block
Delay:	DIL-switch
Switching voltage:	DIL-switch for setting the treshold for low supply voltage detection. Control input to force relay activation.

### EMC emitted immunity

EN 55022:	EN 55022 Class B
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### EMC interference immunity

EN 61000-4-2 electrostatic discharge:	4 kV contact discharge, 8 kV air discharge
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EN 61000-4-3 electromagnetic field:	10 V/m (80-1000 MHz), 3 V/m (1.4-2 GHz), 1 V/m (2-2.7 GHz)
EN 61000-4-4 fast transients (burst):	2 kV power line, 1 kV data line
EN 61000-4-5 surge voltage:	power line: 0.5 kV (line/earth), 0.5 kV (line/line)
EN 61000-4-6 conducted immunity:	10 V (150 kHz-80 MHz)

## GL product Attributes

Description:	Fibre-optic relay to bypass Ethernet switches in case of power failure. Compatible with multimode fibres 62,5/125 µm. Suitable for all data rates and all kinds of data protocols.
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## Global Product Attributes

Type:	OBR40-62,5-LC
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## Mechanical construction

Protection class:	IP30
Dimensions:	115 mm x 61 mm x 113 mm

## Optical interfaces

Insertion Loss:	1.4 dB
Crosstalk attenuation:	55 dB
Return loss:	55 dB
Switching speed:	typ. 4 ms, max 15 ms
Wavelength:	850 nm and 1310 nm, +-40 nm (Multimode 62.5 / 125 µm)

## Physical Characteristics

Weight:	500 g
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## Power requirements

Redundancy functions:	Passive bypass of the connected Ethernet switch, redundant power supply.
Operating voltage:	10 - 60 VDC
Power consumption:	2.5

## Product description

**Port type and quantity:**

4 x LC

## Scope of delivery and accessories

**Scope of delivery:**

Terminal blocks for power supply and fault contact, dust covers for optical ports, description and operating instructions.

## Software

**Configuration:**

Threshold level for power supply low detection may be set from 10 V to 60 V by means of DIL-switches, recovery delay may be set from 0 s to 75 s by means of DIL-switches.

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