Product information
OBR40-9-LC

Fibre-optic relay to bypass Ethernet switches in case of power failure. Compatible with singlemode fibres 9/125 µm. Suitable for all data rates and all kinds of data protocols.

Delivery informations
Availability: available

Product description
Description: Fibre-optic relay to bypass Ethernet switches in case of power failure. Compatible with singlemode fibres 9/125 µm. Suitable for all data rates and all kinds of data protocols.

Port type and quantity: 4 x LC

Type: OBR40-9-LC

Order No.: 942 088-001

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

Optical interfaces
Wavelength: 1310 nm and 1550 nm, ±40 nm (Singlemode 9 / 125 µm)
Insertion Loss: 1.7 dB
Crosstalk attenuation: 55 dB
Return loss: 55 dB
Switching speed: typ. 4 ms, max. 15 ms

Power requirements
Operating voltage: 10 - 60 VDC
Power consumption: 2.5 W

Service
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.

Diagnostics
LEDs (power 1, power 2, status)

Redundancy
Redundancy functions: Passive bypass of the connected Ethernet switch, redundant power supply.

Ambient conditions
Operating temperature: -40 ºC ... 70 ºC
Storage/transport temperature: -40 ºC ... 85 ºC
MTBF: 30 years (MIL-HDBK-217F)
Relative humidity (non-condensing): 10 % ... 95 %

Mechanical construction
Weight: 500 g

Protection class: IP30

EMC interference immunity
EN 61000-4-2 electrostatic discharge (ESD): 4 kV contact discharge, 8 kV air discharge
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)

EMC emitted immunity
EN 55022: EN 55022 Class B
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.

For more information please contact:
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