Product information
OBR40-50-LC

Fiber Interfaces: Fiber-optic Relays, Optical Bypass Relays: OBR40-50-LC


Name  OBR40-50-LC

Fibre-optic relay to bypass Ethernet switches in case of power failure. Compatible with multimode fibres 50/125 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 multimode fibres 50/125 µm. Suitable for all data rates and all kinds of data protocols.

Port type and quantity  4 x LC

Type  OBR40-50-LC

Order No.  942 088-101

Electrical interfaces

Power supply/signaling contact  4-pin terminal block

Delay  DIL-switch

Switching voltage  DIL-switch for setting the threshold for low supply voltage detection. Control input to force relay activation.

Optical interfaces

Wavelength  850 nm and 1310 nm, ±40 nm (multimode 50 / 125 µm)

Insertion Loss  1.4 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  -30 °C ... 70 °C

Storage/transport temperature  -40 °C ... 85 °C

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)

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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