




# HIRSCHMANN

A BELDEN BRAND

## Product information OBR40-9-LC

Fiber Interfaces:Fiber-optic Relays:Optical Bypass Relays:OBR40-9-LC

<http://e-catalog.hirschmann.com/link/57078-57141-352313-309505-309723/en/conf/ui/state>

Name	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.
<b>Delivery informations</b>	
Availability	available
<b>Product description</b>	
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
<b>Electrical interfaces</b>	
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.
<b>Optical interfaces</b>	
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
<b>Power requirements</b>	
Operating voltage	10 - 60 VDC
Power consumption	2.5 W
<b>Service</b>	
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)
<b>Redundancy</b>	
Redundancy functions	Passive bypass of the connected Ethernet switch, redundand power supply.
<b>Ambient conditions</b>	
Operating temperature	-40 °C ... 70 °C
Storage/transport temperature	-40 °C ... 85 °C
MTBF	30 years (MIL-HDBK-217F)
Relative humidity (non-condensing)	10 % ... 95 %
<b>Mechanical construction</b>	
Weight	500 g
Protection class	IP30
<b>EMC interference immunity</b>	
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)
<b>EMC emitted immunity</b>	
EN 55022	EN 55022 Class B



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#### 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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