

## Network isolator - FL ISOLATOR 100-RJ/RJ - 2313931

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Passive network isolator for electrical isolation in Ethernet networks. This protects Ethernet devices from potential differences of up to 4 kV. Can be used for transmission speeds of up to 100 Mbps. Possible to connect two RJ45 plugs.

### Product Features

- No power supply required
- Dielectric strength of up to 4 kV
- Protection against aggressive environmental influences, particularly harsh industrial environments, thanks to coated PCB
- Approval for railway applications (rolling stock) according to EN 50155 and EN 50121
- Extended temperature range of -25°C to +85°C
- Continuous insulation voltage of 250 VRMS
- Electrical isolation of data cables and cable shielding
- Mounting on EN DIN rails



Ethernet



### Key commercial data

Packing unit	1 pc
Weight per Piece (excluding packing)	119.4 GRM
Custom tariff number	85437090
Country of origin	Germany

### Technical data

#### Dimensions

Width	22.5 mm
Height	99 mm
Depth	92 mm

#### Ambient conditions

Ambient temperature (operation)	-25 °C ... 75 °C
Ambient temperature (storage/transport)	-25 °C ... 85 °C

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## Technical data

### Ambient conditions

Permissible humidity (operation)	10 % ... 95 % (non-condensing)
Permissible humidity (storage/transport)	5 % ... 95 % (non-condensing)
Altitude	5000 m (For restrictions see manufacturer's declaration)
Degree of protection	IP20

### General

Electrical isolation	Ethernet // Ethernet
Test voltage data interface/data interface	4 kV AC (50 Hz, 1 min.)
Insulation voltage input/output	250 V <sub>rms</sub>
Standards/regulations	EN 50121 and EN 50155 (for railway applications)
Electromagnetic compatibility	Conformance with EMC Directive 2004/108/EC
Net weight	86 g
Housing material	PA 6.6-FR
Color	green
MTBF	38062 Years (Telcordia standard, 25°C temperature, 21% operating cycle (5 days a week, 8 hours a day))
	12264 Years (Telcordia standard, 40°C temperature, 34.25% operating cycle (5 days a week, 12 hours a day))
UL, USA / Canada	508 listed

### Serial interface

Interface 1	Ethernet interface, 10/100BASE-T(X) in acc. with IEEE 802.3u
Interface	Ethernet
Connection method	RJ45 socket, shielded
Transmission length	≤ 100 m (Total length across both ports (dependent on data rate and cable used))
Serial transmission speed	10/100 Mbps
Interface 2	Ethernet interface, 10/100BASE-T(X) in acc. with IEEE 802.3u
Interface	Ethernet
Connection method	RJ45 socket, shielded
Serial transmission speed	10/100 Mbps

## Classifications

### eCl@ss

eCl@ss 4.0	27250591
eCl@ss 4.1	27230207
eCl@ss 5.0	27230207
eCl@ss 5.1	27061803

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## Classifications

### eCl@ss

eCl@ss 6.0	27061803
eCl@ss 7.0	27061803
eCl@ss 8.0	19170112

### ETIM

ETIM 3.0	EC000313
ETIM 4.0	EC000467
ETIM 5.0	EC002584

### UNSPSC

UNSPSC 6.01	26121607
UNSPSC 7.0901	26121607
UNSPSC 11	26121607
UNSPSC 12.01	26121607
UNSPSC 13.2	26121607

## Approvals

### Approvals

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#### Approvals

UL Listed / cUL Listed / UL Listed / cUL Listed / DNV / cULus Listed

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#### Ex Approvals

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#### Approvals submitted

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### Approval details

UL Listed
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cUL Listed
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## Approvals

UL Listed

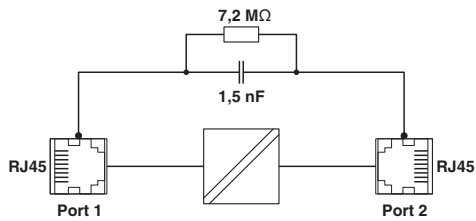
cUL Listed

DNV

cULus Listed

## Drawings

Block diagram



Schematic diagram

