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Network isolator - FL ISOLATOR 100-RJ/SC - 2313928

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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. Connection using RJ45 and COMBICON plug-in screw terminal block.

Why buy this product

- No power supply required
- Protection against aggressive environmental influences, particularly harsh industrial environments, thanks to coated PCB
- Dielectric strength of up to 4 kV
- Approval for railway applications (rolling stock) according to EN 50155 and EN 50121
- Transmission speed of up to 1000 Mbps
- Continuous insulation voltage of 250 VRMS
- Extended temperature range of -25°C to +85°C
- Electrical isolation of data cables and cable shielding
- Mounting on EN DIN rails



Key Commercial Data

Packing unit	1 STK
GTIN	 4 046356 575072

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
Permissible humidity (operation)	10 % ... 95 % (non-condensing)
Permissible humidity (storage/transport)	5 % ... 95 % (non-condensing)

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Technical data

Ambient conditions

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 _{rms}
Standards/regulations	EN 50121 and EN 50155 (for railway applications)
Electromagnetic compatibility	Conformance with EMC Directive 2004/108/EC (valid until 19.04.2016) / 2014/30/EU (valid from 20.04.2016)
Net weight	90 g
Housing material	PA 6.6-FR
Color	green
MTBF	26549 Years (Telcordia standard, 25°C temperature, 21% operating cycle (5 days a week, 8 hours a day))
	9033 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, 10/100/1000Base-T(X) according to IEEE 802.3u
Interface	Ethernet
Connection method	COMBICON screw terminal block
Transmission length	≤ 100 m (Total length across both ports (dependent on data rate and cable used))
Conductor cross section solid min.	0.14 mm ²
Conductor cross section solid max.	1.5 mm ²
Conductor cross section flexible min.	0.14 mm ²
Conductor cross section flexible max.	1.5 mm ²
Conductor cross section AWG min.	26
Conductor cross section AWG max.	16

Standards and Regulations

Electromagnetic compatibility	Conformance with EMC Directive 2004/108/EC (valid until 19.04.2016) / 2014/30/EU (valid from 20.04.2016)
Type of test	Vibration resistance in acc. with EN 60068-2-6/IEC 60068-2-6
Test result	5g, 10-150 Hz, 2.5 h, in XYZ direction
Type of test	Shock in acc. with EN 60068-2-27/IEC 60068-2-27

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Technical data

Standards and Regulations

Test result	25g, 11 ms period, half-sine shock pulse
Standards/regulations	EN 61000-4-3
	EN 61000-4-4
	EN 61000-4-6
	EN 50121 and EN 50155 (for railway applications)
UL, USA / Canada	508 listed

Classifications

eCl@ss

eCl@ss 4.0	27250591
eCl@ss 4.1	27230207
eCl@ss 5.0	27230207
eCl@ss 5.1	27061803
eCl@ss 6.0	27061803
eCl@ss 7.0	27061803
eCl@ss 8.0	27249290
eCl@ss 9.0	27240692

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

Approvals

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


Ex Approvals

Network isolator - FL ISOLATOR 100-RJ/SC - 2313928

Approvals

Approvals submitted

Approval details

UL Listed 

cUL Listed 

DNV

EAC

cULus Listed 

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Product	Code	Reference	Product link
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