

LCN-IS

Isolation-amplifier for DIN rail mounting

The LCN-IS isolation amplifier is an LCN coupler module for the LCN bus system. It has connections for the LCN BUS and the LCN two-wire bus.

As the module has no processor, setting of parameters through the system software is not necessary.

Fields of application:

The isolation amplifier LCN-IS is used for signal amplification of the LCN BUS.

Each LCN-IS allows the connection of up to a max of 1km with NYM cable. Additionally it provides galvanic separation between various installation circuits, ie. between circuits protected by RCD within an LCN segment. Plus, it is necessary for the signal conversion and preparation of the LCN fibre optic couplers LCN-LLK and LCN-LLG respectively.

Hardware:

Connections for the LCN bus.

Connections for the LCN two-wire bus.

LED-status display on the LCN-IS buffer amplifier for immediate diagnosis.



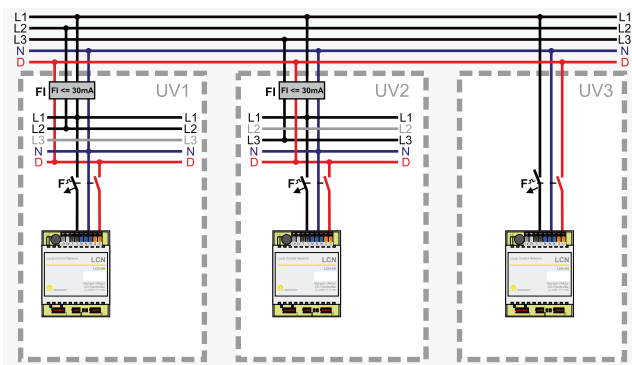
Note:

Only one two-wire bus allowed per segment.
The maximum length of the two-wire bus from the first to the last LCN-IS is 50m.

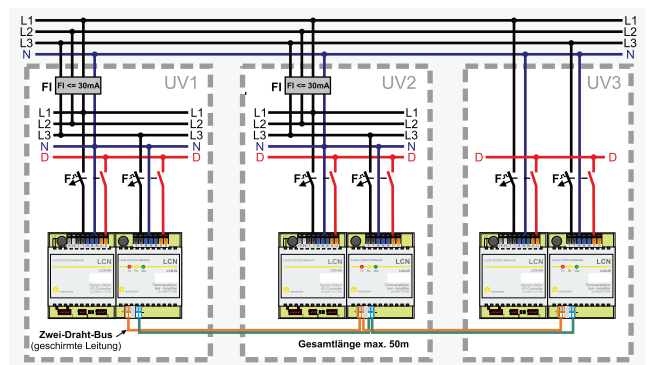
A maximum of 15 units may be connected to a two-wire bus.
For detailed information please refer to the installation manual/instructions.

Use of Isolation Amplifiers

Due to voltage drags please separate distributions with different feeds to connect directly to the data wire .



For the clean separation of distributions (all sections together), the isolation amplifier LCN-IS can be used up to a distance of about 50 meters.

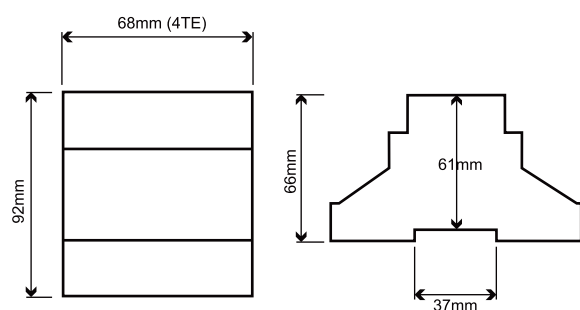


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Isolation-amplifier for DIN rail mounting

Dimensions:

(L x W x H): 68 mm x 92 mm x 66 mm



Height: 66mm
61mm via DIN rail

Space requirement: 4TE

Assembly: REG on 35 mm mounting rail
(DIN 50022)

Technical Data:

Connection:
Supply voltage: 230V AC $\pm 10\%$, 50Hz
(110V AC $\pm 15\%$ type available)
Input power: <math>< 2\text{W}</math> power consumption

Terminals: screwless, max. 16A
Cable type: Single or multi-core
(max. 2,5mm²) or with insulated ferrules (max. 1,5mm²)

Two-wire bus connection:

Terminals: screwless
Cable type: max. 0,8mm \varnothing
Range: max. 50m (total)
Devices: max. 15 (IS, LLK and/or LLG)

General Details:

Operating temperature: -10°C to +40°C
Humidity: max. 80% rel., non condensing

Environmental conditions: stationary installation
according to VDE 632,
VDE 637

Safety classification: IP 20

Circuit Diagram:

