

LCN-SK

Segment Coupler DIN rail mounted

Functional Specifications:

Operating Programme:

Distinction between global or local messages.

Automatic connection installation of the LCN segment bus after voltage switch-on.

Individual parametrization of the data transfer rate according to the power supply units used.

Software locking of segment couplers.

Automatic assignment of the LCN segment ID (can be individually adapted to the requirements of the project)



Description:

The LCN-SK Segment Coupler is a coupler module for the LCN Bus system connecting up to 120 LCN segments. It is an intelligent bus module and has its own processor with a buffer which guarantees complete data transfer. The internal operating programme can be individually programmed via the LCN software LCN-P or LCN-PRO. The individual segment couplers LCN-SK communicate with each other via a symmetrically twisted pair of wires (CAT5 or similar), which are galvanically isolated from the other wiring. The connection among the single segment couplers is built up automatically.

Field of application:

The LCN-SK is used in larger systems for coupling several LCN buses with each other. Each single LCN bus consists of a maximum of up to 250 intelligent LCN modules. These LCN modules form an LCN segment. Up to 120 of these single LCN segments can be coupled directly so that over 30,000 intelligent LCN modules per object can be used. Each module can directly communicate with any other module via the segment bus.

Note:

The LCN segment buses are to be installed in series. The beginning and the end of the LCN segment bus are to be terminated, the terminal resistances are set using a jumper plug. Installation and connection of the LCN segment couplers must to be done according to the regulations for CAT5 cables. Where the wire must be stripped (max 2cm) and the cable twisting to be undone where necessary. The distance depends on the transfer rate and number of the segment couplers. It makes sense to connect the LCN/SK module to the safety power supply. The unused wires in the CAT 5 cable must not be used for external potentials.

Hardware equipment:

Connections for the LCN bus

Connections for the LCN segment bus

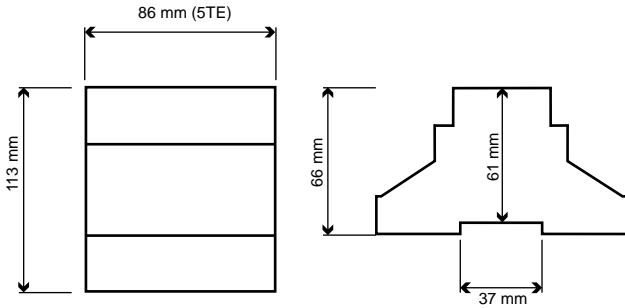
LED status display

LCN-SK

Segment Coupler DIN rail mounted

Dimensions:

Mass (W x L x H): 86 mm x 113 mm x 66 mm



Height: 66mm
61mm via DIN rail

Space requirement: 5TE

Assembly: Attached built-in device on 35 mm mounting rail (DIN 50022) or screw fixture

Technical Data:

Connection:
Supply voltage: 230V~ ±15%, 50Hz
Input power: <3W power consumption

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

Segment bus connection:
Cable type: max. 0,8mm Ø (twisted) at >100m: CAT5 cabel

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

