

# LCN-LLK

## Fibre Optics Transceiver for plastic cables DIN rail mounted



### Description:

The LCN-LLK is the plastic LWL coupler for the LCN bus system. It is a double transceiver element and has connections for the LCN two-wire bus and the plastic light cable.

As it does not have its own processor, programming with the LCN software LCN-P or LCN-PRO is not necessary.

### Field of application:

The fibre optic LWK coupler LCN-LLG is used for the connection of spatially-separated LCN buses within an LCN segment with a max. range of 100m when used with LCN-LK cables.

Single building-,renting and supply areas are connected with each other so that communication among all LCN bus modules is possible.

### Note:

Direct connection to the data line of the LCN bus is not possible. For this a LCN-IS is needed for the signal conversion. There is a max. of 10 devices to be connected to the two-wire bus.

Five LCN-LLK's can be installed in succession within an optical LCN segment.

Laying specifications as for the LWL-conductor are to be considered.

### Hardware equipment:

Connections for the LCN two-wire bus

Connections for the LWL cable

Status display for immediate diagnosis

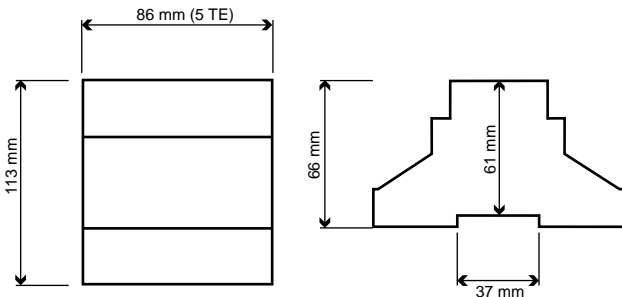
Test jumper for controlling the optical output level.

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### 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~ ±10%, 50Hz (optional 120V/60Hz)  
Input power: <2W power consumption

Terminals: screwless  
Cable type: max. 16A single or multi-core (max.2,5mm<sup>2</sup>) or with insulated ferrules (max.1,5mm<sup>2</sup>)

**Fibre optics connection:**  
Connection: union nut  
Cable type: 980 / 1000nm  
Wave length: 665nm (visible, red light)  
Range: max. 100m with LCN-LK cabel  
Devices: max. 5 couplers on LWL-side switchable in succession

Repeater function: Yes  
**Two-wire bus connection**  
Terminals: screwless  
Cable type: max.1,2mm Ø  
Range: max. 20m(total)  
Devices: max. 10 (IS, LLK and/or LLG)

**Installation:**  
Operating temperature: -10°C to + 40°C  
Humidity: max. 80% rel., non condensing  
Environmental conditions: stationary installation according to VDE 631, VDE 637

Safety classification: IP20

### Circuit Diagram

