

# LCN-LLG

## Glass Fibre Optics Transceiver for the DIN rail



### 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

### Description:

The LCN-LLG is the fibre optic **LWL** coupler for the LCN bus system. It has a double transceiver element and has connections for the LCN two-wire bus and the fibre optics cable.

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

### Field of application:

The fibre optic LWL coupler LCN-LLG is used for the connection of spatially-separated LCN buses within an LCN segment within a range of 2km. With the LCN-LLG single building 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 an LCN-IS is needed for the signal conversion. There is a maximum of 10 devices to be connected to the two-wire bus.

Five LCN-LLG's can be installed in succession within an optical LCN segment giving a maximum range of 10km.

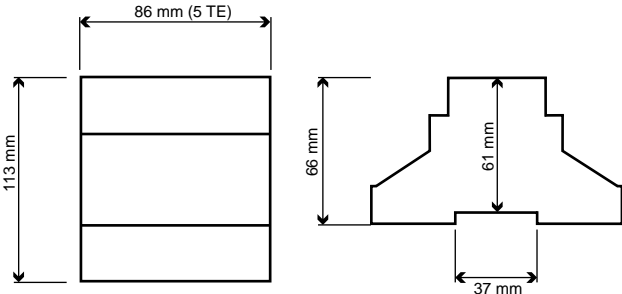
Laying specifications fibre optic cables are to be considered.

# LCN-LLG

## Glass Fibre Optics Transceiver 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:** REG on 35 mm mounting rail (DIN 50022) or screw fixture

**Technical Data:**

<b>Connection:</b>	
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> )
<b>Fibre optics connection:</b>	
Connection:	ST (bayonet)
Cable type:	50/125µ, 100/140µm fibre
Wave length:	840nm (Infra red light)
Range:	max. 2km
Devices:	max. 5 couplers on LWL side switchable in succession
Repeater function:	Yes
<b>Two-wire bus connection</b>	
Terminals:	screwless
Cable type:	max. 1,2mm Ø
Range:	max. 20m (total)
Devices:	max. 10 (IS, LLK and/or LLG)
<b>Installation:</b>	
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**

