

LCN-DI12

Lamp Display Interface DIN rail mounted

Functional Specifications:

Operating Programme:

Direct control of 12 LEDs or control lamps with four states: ON, OFF, FLASH and FLICKER.

Fault signal processing in compliance with DIN, also hierarchal via more Tableaus/Panelboards.

Four summing operations with 12 logic inputs for each.

Connection for 8 keys (interrogation voltage 5V) which can distinguish the **Hit**, **Hold** and **Release** function: each of the 3 commands can be sent to 2 addresses (modules or groups).

All together there are 32 keys in 4 tables = 192 commands to 64 target addresses.

Automatic display re-building after power failure.

Lamp test (positive and negative).

Decoding of the IR receiver. Evaluation direct or over main computer. Functions for key levels, ciphered transmission, transmission distinction, transponder (evaluation of serial numbers), personal identification.

Further functions:

- Two simulated electronic outputs, including timers etc.
- Two freely parametable continuous action controllers. Results and any variables can be distributed on the bus.
- Analogue value data processing over 5 thresholds with hysteresis, also can be used for control, counting/calculating.
- Transponder data processing for up to 16 transponders (unlimited amount with use of the visualizing software).
- Control with independent and logic operation, single key locking and unlocking, hierarchical reporting.
- 1Timer (1s .. 45days) cycling clock generator.
- Override during power failure for up to 20 sec with power failure recognition, etc.
- Function reporting: execution of commands are clearly confirmed.
- Automatic creation of real status messages which are logically processed for further visualization.

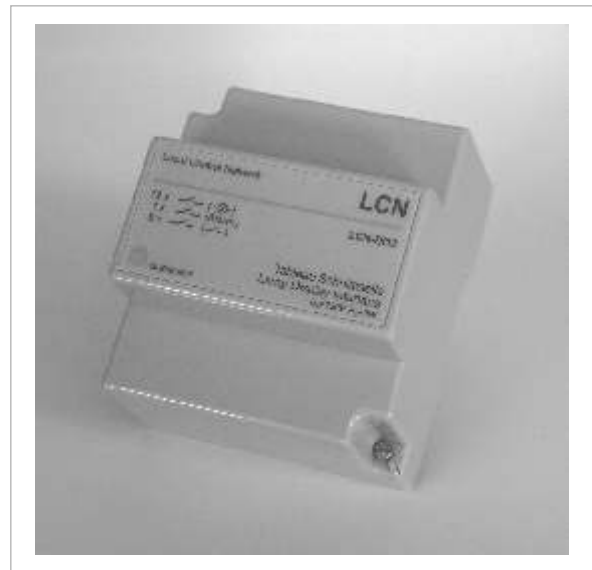
Hardware Equipment:

230V PSU 50/60Hz (120V version available)

12+ 1(alarm) potential-free contacts 100V = or 60V- /0.5A/10VA for controlling status lamps or LED's, max total current for all 13 contacts 2A

Eight key converter inputs (internal interrogation voltage 5V)

I-Port connection for LCN-RR (IR remote-control receiver), LCN-TS (temperature sensor), LCN-BMI (motion detector), LCN B3I (binary sensor), etc.



Description:

The LCN-DI12 lamp display interface is a display and entry module (sensor-/actuator) for the LCN bus system. It has 12 low voltage relay outputs and 8 key inputs.

Furthermore through use of the I port additional sensors can be connected.

Individual setting of parameters is achieved using the system software LCN-P or LCN-PRO.

The module is usually installed directly behind Tableaus/panelboards but can also be DIN rail mounted in distribution boxes.

Field of application:

- Connection to conventional Tableaus/panel boards.
- Status message processing and display in compliance with DIN. First value and last value reporting.
- Tableau/panelboards with 4 states per lamp/LED.
- Automatic control with timers and logic operations.
- Alarm systems, also with more zones and complex requirements, block locks, pre alarms etc.
- Logic operations over trade boundaries: passing over: Lighting <-> Shading <-> Alarm <-> Entry, etc = Cost efficient functionality by multiple use of sensors and actuators.

Note: All functions can used independently and are also available to be used simultaneously.

Note:

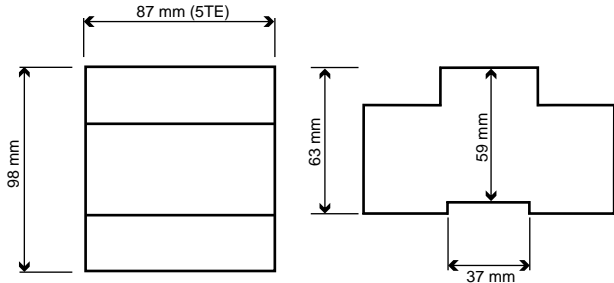
Can be installed without cover (only 36mm high) when limited space available.

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Lamp display interface DIN rail mounted

Dimensions:

Mass (W x L x H): 87 mm x 98 mm x 63 mm



Height: 63mm
59mm via DIN rail
36mm without cover

Space requirement: 5TE

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

Technical Data:

Connection:
 Input voltage: 230V~ ±15%, 50Hz
 Input power: <2W power consumption
 Terminals: Screwless max.16A
 Cable type: Single or multi core, max.2,5mm² or with insulated ferrules max.1,5mm²
 Cable type input/outputs max. 0,8mmØ

Circuit outputs:
 Nominal voltage: max. 100V= oder 60V~
 Nominal current: max. 0,5A at 10VA
 Total current: max. 2A (sum of all 13 contacts)
 Mechanical life span: 100 Mio. circuit movements
 Isolation: galv. 1000V (WRT N)

Key inputs:
 Interigation voltage: ca. 5V, on N-Potential
 Input current: 2mA per key

Ports:
 T-Port: Not available
 I-Port: Available
 P-Port: Not available

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

