

LCN-SHS

Universal sensor module for DIN rail mounting

The LCN-SHS DIN rail mounted module is a sensor module for the LCN Bus system.

Functionally, it corresponds to the LCN-SHS but does not have any electronic (dimmer-) outputs. Sensors and actuators can be connected through its T-, I- and P- ports. Parameters for the internal operating program can be set using the system software LCN-PRO.

The module is usually mounted on a DIN Rail inside the distribution box.

Field of application:

- Cost effective linkage of all LCN sensors and actuators for distribution integration such as key converters (e.g LCN-TU4H), binary sensors (e.g LCN-B8H) and relay Modules (e.g LCN-R8H).
- Control of solar shading for conservatories, with up to 4 motor pairs with LCN-R4M2H.
- Access control with IR remote control and transponders.
- Automatic control with numerous timers and logical operations.
- Hierarchical logical operations- authorisation.
- Alarm systems with multiple zones and complex requirements, blocking locks, early warning alarm systems etc.
- Associated logical operations across installation/facility boundaries including: lighting ↔ solar shading ↔ alarm ↔ entry restriction, etc.
- High performance through cost effective multiple application of sensors and actuators.

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

Hardware:

230V PSU 50/60Hz (110V version available).

T-Port for connection of up to 8 keys via key converter or A/D converter (LCN-AD2), etc.

I-Port for combined connection of LCN-RR (IR-remote-control receiver), LCN-TS (temperature sensor), LCN-BMI (motion detector), LCN-ULT (transponder reader), LCN-GTxD (Glas Touch-Keypad) etc.

P-Port connection as digital in-/output for further peripheries such as relays LCN-R8H, LCN-R4M2H or LCN-R2H, LCN B8x (binary sensor), LCN-BS4 (current sensor), etc.

Note:

All functions can be used independently and are therefore available simultaneously. For detailed information please refer to the installation instructions. The operation of LCN-R1U and LCN-DDR is not possible.



Operating Programme:

Connection for 8 keys (with key converter) which can distinguish between the **Hit**, **Hold** and **Release** functions: each of the 3 commands can be sent to 2 addresses (modules or groups).

In total 32 keys in 4 tables = 192 commands to 64 target addresses.

Four simulated outputs: three timers (10ms .. 40min) enabling momentary timers, staircase lighting, etc.

All 3 outputs are capable of storing up to 100 light scenes. (each storing brightness and blending time).

Position control for motors incl. drive limit.

LCN tableau/control panel functions with 4 states: **On**, **Off**, **Flash** and **Flicker**. Four summing operations each with 12 inputs for logical operations and hierarchical fault signal processing in compliance with DIN.

Decoding of the IR receiver. Immediate evaluation or via main computer. Functions for key levels, ciphered transmission, transmission distinction, transponder combinable, person identification.

Further functions :

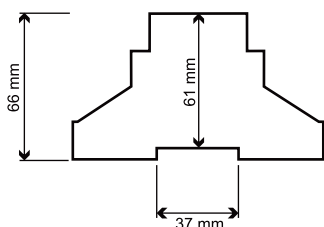
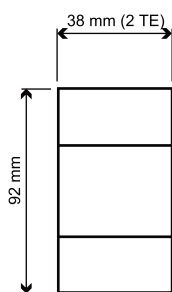
- Two freely parametable continuous action controllers. Results and any variables can be distributed on the bus.
- Analogue value data processing over 5 thresholds with hysteresis, can also be used for control, counting/calculating.
- Transponder data processing for up to 16 transponders (unlimited amount when using the visualisation software)
- Control with independent and logic operation, single key locking and unlocking, hierarchical authorisation.
- Four timers (1s.. 45 days), 2 relay timers, periodic clock.
- Override during power failure for up to 20 sec with power failure recognition, etc.
- Four level acknowledgement and notification system.
- Function reporting: execution of commands are clearly confirmed
- Automatic creation of status reporting for visualisation and much more.

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Dimensions:

(L x W x H): 38 mm x 92 mm x 66 mm



Height: 66mm
61mm via DIN rail

Space requirement: 2TE

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

Technical Data:

Connection:
Supply voltage: 230V AC ±15%, 50/60Hz
(110V AC ±15% type available)

Input power: <0,4W power consumption

Terminals: Screwless, max. 16A

Cable type: Single or multi core max. 2,5mm² or with insulated ferrules 1,5mm²

Electronic Outputs: nonexistent, 3 simulated outputs,

Ports:
T-Port Available
I-Port Available
P-Port Available

General Details:
Operating temperature: -10C to +40C
Humidity: max. 80% rel., no condensation
Environmental conditions: stationary installation according to VDE 632, VDE 637,

Safety classification: IP 20

Circuit Diagram:

