LCN-BU4L

Push button converter or 4-way binary input 6-24V

The LCN-BU4L is either used as a 4-way binary sensor or key signal converter for floating contacts on low voltage (max. 24V AC/DC) for all LCN-modules built since July 2010 (version 140719).

Description:

In its function as key converter conventional switches can be evaluated.

As binary sensor permanent contacts such as timer or window contacts can be evaluated. In its function as key converter the commands short, long and loose are triggered in the A-table, in its function as binary sensor the commands long and loose are triggered in the B-table. By DIP-switch the LCN-BT4H can be switched from key converter to binary sensor and vice versa.

The four inputs evaluate signals to ground (blue terminal). The inputs are galvanically isolated from the I-port.

In its function as key converter the commands short, long and loose are triggered in the A-table, in its function as binary sensor the commands long and loose are triggered in the B-table.

Hardware equipment:

4 binary inputs

DIP-switsch

I-Port ribbon cable with I-port connector

4 status LEDs



Field of application:

Can be used for all modules built since year 2010 (firmware 140719). The LCN-BU4L is detected automatically.

Function as key converter: The sensors can be operated simultaneously with any I-port periphery, but not more than 5 I-peripheral devices at once at one I-port.

Important: The following old periphery MUST NOT be connected at once: LCN TU4x, -T8 & -TEx!

Function as binary sensor: The following sensors can be used at once: LCN-TS, -GRT, GT4D, GT10D, -GT2, -GT3L,-ULT, -UT and -RR. Again, not more than 5 of peripheral devices at one I-port.

Restriction: In mode "binary sensor 5-8" the modules LCN B3I (B6-B7) must not be operated; either one of LCN-GBL (B4, B5, B6, B7) or one of BMI (B4, B5, B6, B7) may be operated, otherwise the signals overwrite each other.

Restriction: In mode "binary sensor 1-4" the modules LCN B3I (B6-B7) may be operated without any restrictions, LCN-GBL (B4, B5, B6, B7) or BMI (B4, B5, B6, B7) are limited to a maximum of three, otherwise the signals overwrite each other.

Important: The following periphery MUST NOT be connected: -B8H & B8L!

The commands and status messages are only transmitted once during potential alteration. If the signals to the sensor are static, the module transmits neither message nor command. As an example: After a long period of voltage loss a panel transmits "Repeated binary sensor status message" to retrieve "its" binary sensors' status.

Note:

The ribbon cable is a signal cable. It is to lead separated from mains cable and power conductor:-is not to be bind to 230V cable harness!

For detailed information please refer to the installation manual.

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Technical data

Connection

power supply: 230V AC ±15%, 50/60Hz (110V

AC version available)

20-30V DC (optional with external inputs:

power supply)

10-30V AC (optional with external

power supply)

terminals/wire type

(power side):

screwless, solid max. 2,5mm2 orfine wire with wire end-sleeves max 1,5mm², loop, amp. max.16A

terminals/wire type

(input side):

screwless, solid or fine wire

0,5 -1,5mm²

Function

On-level:

cable length (inputs):

potential free through optocoupler inputs/push-button function:

4 / Hit, LONG, RELEASE (with 4 control LED's), push-button converter table A, key 1-4 or 5-8

table B, key 1-4 or 5-8 SO-interface \rightarrow

variables can be freely chosen

alarm sensor → table B, keys 1-4 or 5-8

10V AC, >14V DC

Off-level: 6V AC, <8V DC

query current: 1mA debouncing time:

25ms (push-button converter), 25-

500ms (binary sensor) alarm sensor:

resistance value 1Ω -30k Ω 3 functions for contact open,

closed & resistance

S0-impulse input: max. 30.000 pulses/h (9Hz)

LCN-connection: I-connecting cable length 300mm

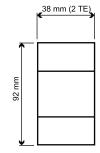
LCN-IVH (plugged), over extendable up to max. 50m. max. 100 metres each input (use

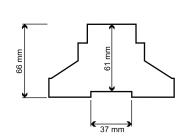
twisted pair cable), Use twisted, shielded cable, Connect the shield to the circuit ground (M)

Dimensions:

 $(L \times W \times H)$:

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)

General details:

Operating temperature:

-10℃ bis +40℃

Humidity:

max. 80% rel., no condensation stationary installation according to VDE632, VDE637

Environmental conditions:

Safety classification: **IP 20**

Schaltplan

