LCN-BT4H

Push button converter or 4-way binary input for the I-port

The LCN-BT4H is either used as 4-way binary sensor or as key signal converter for mains voltage (230V AC) for all LCN-modules from version 140719 (July 2010). The four inputs of the LCN-BT4H evaluate any phase position signals against N.

Description:

In ist role as key converter conventional buttons can be evaluated. As a binary sensor can for example timer or window contacts (occupancy sensors) be evaluated.

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.

By DIP-switch the LCN-BT4H can be switched from key converter to binary sensor.

Field of application:

Can be used for all modules built since 2010 (firmware 140 714). The LCN-BT4H is detected automatically.

Hardware equipment:

4 binary inputs

DIP-switsch

I-Port

ribbon cable with I-port connector

4 status LEDs

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

Important: The following old periphery should not be connected at the same time: 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 peripheral devices on 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!

Note:

The ribbon cable is a signal cable. It is to lead separated from mains cable and power conductor:-is not to be bind to230V cable harness!

For detailed information please refer to the installation instructions.

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Technical data

Connection

Power supply:	unnecessary
Ports:	230V AC ±15%, 50/60Hz (110V AC version available)
Terminals/Conductor:	screwless, massive max. 2,5mm² wire and ferrule max 1,5mm², electric current: max. 16A

Function

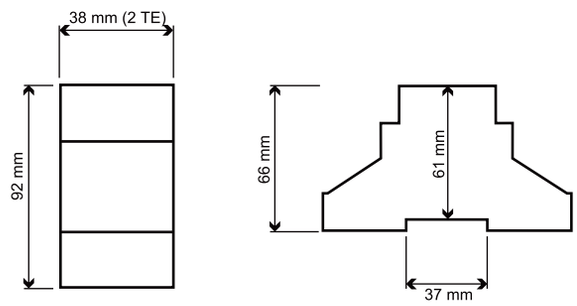
Ports/Key function:	4 /**SHORT**, **LONG, LOOSE** (WITH 4 control LEDs) **As key converter :** Table A, Key 1-4 oder 5-8 **As binary sensor:** Table B, Key 1-4 oder 5-8
High level:	>120V AC
Low level:	<80V AC
Sensing current:	<7mA
Debounce time:	25ms (key converter), 100ms (binary sensor)
LCN-connection:	I-Port lenght 300mm (with plug),via LCN-IVH extendable to max. 50m.
Cable lenght (ports):	max. 100 meter for each port

General details:

Operating temperature:	-10℃ bis +40℃
Humidity:	max. 80% rel., no condensation
Environmental conditions:	stationary installation according to VDE632, VDE637
Safety classification:	IP 20

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)

Circuit Diagram