LCN-B3IN

3-way binary input with power supply for flush-mounting

The LCN-B3IN evaluates up to 3 permanent potential-free contacts. It provides an internal sense voltage for this purpose. It also provides power (5V/12V) to the external sensors.

With its connecting cables the LCN-B3IN connects to the I-Port of intelligent bus modules such as the LCN-HU, LCN-SH, LCN-UPP, LCN-UP24 or LCN-UPS.

Description:

The LCN-B3IN connects up to 3 permanent potential-free contacts into the LCN system.

These can be reed contacts, limit switches or other signal contacts. With these, things such as windows, doors and smoke detectors can be integrated into the LCN system and reported upon.

The LCN-B3IN has an internal power supply for use with sensors such as light barriers, hall sensors in shutter drives or the electronic evaluation of block locks.

Hardware equipment:

3 binary inputs + sense voltage

Power supply 5V/12V for sensors which require an external supply

Jumper for setting 'active, low or high'

Ribbon cable with plug for I - Port connection

I-Port socket for further I-Port connectors

Note:

The clip marked with "⊥" has N-potential. Only potential-free contacts may be connected.

Care must be taken when choosing the contact material (low interrogation current).

The inputs are signal wires and are to be treated accordingly i.e separated from 230V lines.

For more detailed information please refer to the installation instruction manual.

LCN-B3IN

3-way binary input with power supply for flush-mounting

- **3 permanent potential-free contacts**
- **internal sense voltage**
- **provides power (5V/12V) to the external sensors**
- **connected to the I-Port**

Technical Data:

Connection:

Supply voltage:	230V AC ±20%, 50Hz (110V AC ±15% type available)
Input power:	<1W
Connection power side:	2 litz wires 0,75 mm² (with insulated ferrules)

Inputs:

Input voltage:	5V, made available by the sensor (WRT N)
Querying current:	50µA
Contact resistance ON:	max. 10kOhm
Contact resistance OFF:	min. 200kOhm
Debounce time:	30ms
Cable length:	max. 5m / 100m with shielded cable

Sensor supply:

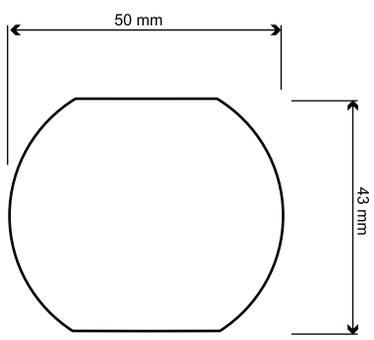
Sensor voltage:	5V / 12V=
Sensor current:	max. 25mA (permanently short-circuit safe)
Terminals:	for screwing
Cable type:	single or multi-core max. 0,5mm² or with insulated ferrules

General Details:

Operating temperature:	-10℃ to +40℃
Humidity:	max. 80% rel., non condensing
Environmental conditions:	stationary installation according to VDE 632,VDE 637
Safety classification:	IP 20

Dimensions:

(Ø x H):	50mm x 20mm
Supply Cable:	160mm



Assembly: de-centralized installation in deep flush-mounted box

Circuit Diagram