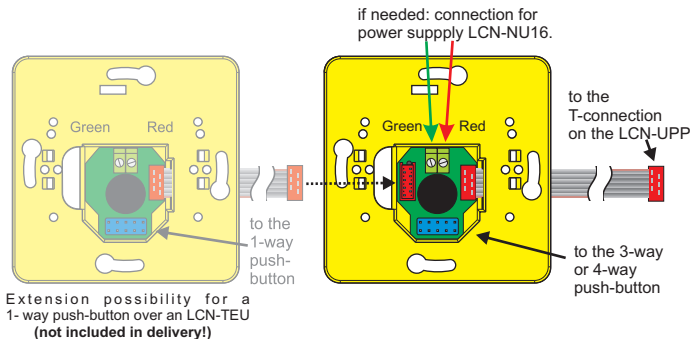**Adapter cable for combined operation with EIB/KNX 3-way and 1-way push-buttons sensors on the T-connection from LCN modules.**

The LCN-TE1 is provided for operating with LCN-UPP, -UPS or -UP24.

With the special features on the LCN-TE1, it is possible to connect a further 1-way push-button sensor with the help of an LCN-TEU. Please order the LCN-TEU seperately!

if needed: connection for
power suppply LCN-NU16.

to the
T-connection
on the LCN-UPP

Green   Red

to the
1-way
push-
button

to the 3-way
or 4-way
push-button

Extension possibility for a
1- way push-button over an LCN-TEU
(not included in delivery!)

Standard 3-way push-buttons from the companies **Gira, Jung** and **Berker** are supported.

If the background lights on the standard 1- and 3-way push-button sensors from **Gira** (1011 xx und 1013 xx) are to be used, an LCN-NU16 is required as a power supply . Apart from that, the LCN-NU16 is needed when operating the **Berker** B.IQ series.

Push-button sensors with special functions, like e.g. multi function push-buttons, Light scenes, storage etc. will not be supported. These functions are already integrated in the LCN-modules anyway.

Note:

For 2-way push-button sensors from the companies **Berker**, **Gira** and **Jung,** please use the LCN-TE2. With this adapter in connection with an LCN-TEU, two 1-way and/or 2-way push-button sensors can be operated on one LCN module.

For 2-way push-button sensors from the companies **Busch-Jaeger** and **Hager**, please use the LCN-TEU. With this, only one button is possible for each module. BJ-push-buttons need the power supply LCN-NU16.

Hardware: LCN modules manufactured in year 2000 or later

Softwareversion: LCN-PRO 2.15 or later

Settings with LCN-PRO:
Under connections the T-connection parameterize with the setting LCN-TEx EIB
Gira, Jung, Berker, ...

Notes about programming:
The buttons of the KNX/EIB-push-button sensors work on the table A in the modules according to their numbers. Button 1 works on key A1 etc.. The numbering of the buttons is different depending on the manufacturer, tables on pages 6 - 7.
The buttons on the connected 1-way push-button (=2 buttons) on the LCN-TEU, work on the keys A7 and A8.

Additional function: 8 further push-button functions:
With LCN-modules from the year 1999 or after, the possibility is given, by pressing two buttons at the same time, to trigger off a key on the table C:
button 1+2 trigger off C1, 3+4=C2, 5+6=C3, 7+8=C4, 1+7=C5, 2+8=C6, 1+8=C7, 2+7=C8. This type of double contact is especially suitable for functions, that should not accidentally be triggered off (central off, scene memory, activating alarm systems, ...)

Function:

In the LCN modules you can program up to 8 push-buttons. With every key, the known commands **HIT**-, **LONG**-, **RELEASE** are available.

All LCN modules have an additional panel function. 12 display lamps are processed internally. All 12 lamps are available for LCN sum processing. But only the five first lamps are visible - KNX push button sensors don´t have any more LED´s.

Notes about special push-button sensors:
- Gira 3-way: the two red LED´s on each button are switched parallel and can be controlled together = a maximum of 3 lamps; Lamp 5 on the Gira push-button sensor activates the background light when connected to an LCN-NU16.

- GIRA 1-way: (10 11 xx) when operated on the additional LCN-TEU, the fouth lamp is displayed. When the power supply LCN-NU16 is connected, lamp 5 activates the background light on both Gira push-buttons sensors.

- INSTA push-buttons sensors 1-way: over the additional LCN-TEU, lamp 4 + 5 will be displayed.

- Berker B.IQ series: the two white LED´s on each button are switched parallel and can only be controlled together. To operate the push-buttons, an LCN-NU16 is needed..

Connecting the LCN-TE1:
The LCN-TE1 is connected to the T-connection on LCN modules. After that the frame is installed over the flush mounted box. Don´t screw too tight!
The ten pin plug strip on the EIB/KNX push-button sensor is then stuck into the blue jack on the LCN-TE1 and the holding clips latched into the provided openings.
The holding frame universally suitable for connecting the push-buttons.
Push-button sensors from the companies **Gira, Jung, Berker** and **Legrand** can be snapped or screwed onto the frame directly.

Connecting the LCN - NU16:
The red and green wires on the LCN-NU16 are connected directly to the terminals on the LCN-TEU. The terminals on the circuit board are marked RED and GREEN.

Notes:
- An LCN-NU16 can supply all the push-button converters together on one module. It is not permitted, to lay the power supply of the LCN-NU16 between two or more modules.

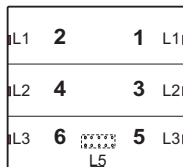**ATTENTION: switch off the power before connecting!**
The auxiliary voltage from the LCN-NU16 destroys the push-button sensors, when it comes onto a wrong connection! That´s why you should always switch off the LCN-NU16 before the push-button sensor is inserted.
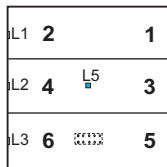
Switching example:

Berker, 1-way,
Art.-Nr. 7516 13 (xx)

Berker, 3-way,
Art.-Nr. 7516 33 (xx)

LCN-UPx

Extension possibilities for a
1- way push-button sensor over an LCN-TEU
(not included in delivera!)
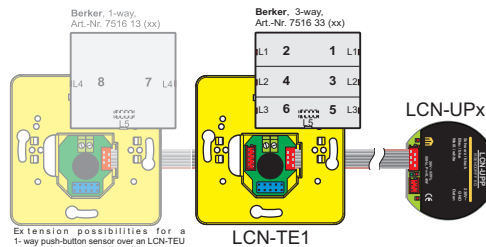
LCN-TE1

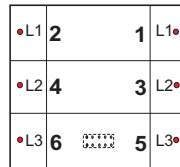## Push-button sensors for operating on LCN-TE1:

Berker,
3-way,
Art.-Nr. 7516 33 (xx)

Berker, B.IQ,
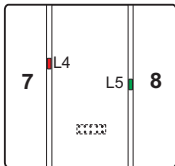3-way,
Art.-Nr. 7516 30 (xx)

operation only with LCN-NU16 !
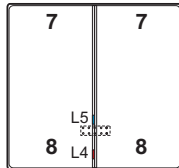
GIRA,
3-way, without controller
Art.-Nr. 1013 (xx)

**L5 = background light
when operated with an LCN-NU16**

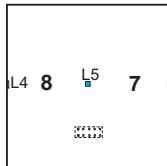## Push-button sensors for operating on LCN-TEU:

Jung,
1-way, Art.-Nr.
(LS/AL/ES) 2071 LCN(xx)

7 L4   L5 **8**

Jung,
4-way, Art.-Nr.(FD)
2071 TSM (xx)

7   **7**
L5
8 L4   **8**

Berker, B.IQ,
1-way,
Art.-Nr. 7516 10 (xx)

L4 **8**   L5   **7**

operation only with LCN-NU16 !

GIRA
1-fach, Art.-Nr.
881(xx) o. 551(xx)

7   L4 L5   **8**
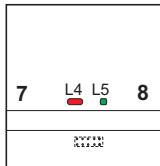
Jung,
1-way, Art.-Nr.
(CD) 2071 LCN (xx)

7
L4
L5
8
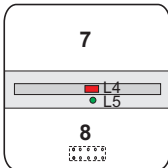
Berker,
1-way,
Art.-Nr.75161 0 o.1 (xx)

7
L4
L5
8
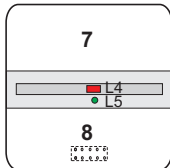
Berker, K.1,
1-way,
Art.-Nr. 7516 13 (xx)

L4 **8**   **7** L4
L5
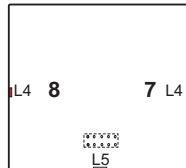
GIRA, push-button
sensor 2, 1way,
Art.-Nr. 10 11 (xx)

7   **8**
L4   L4
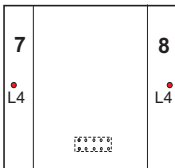
Technical data:

General data:

operating temperature: -10°C bis +40°C
air humidity: max. 80% rel., non condensing
environmental conditions: Use as stationary installation according to
                                VDE632, VDE637
protection art: IP 20, when used in flush mounted box

ATTENTION: switch off the power before connecting!
The auxiliary voltage from the LCN-NU16 destroys the push-button sensors, when it comes onto a wrong connection! That´s why you should always switch off the LCN-NU16 before the push-button sensor is inserted. Before switching back on, always check that the connecting jack from the push-button has been inserted correctly!