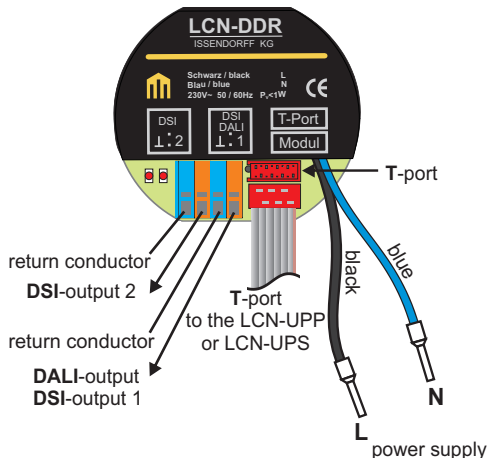### Interface for controlling digital control gear with DALI or DSI-protocol

The LCN-DDR interface takes the DSI or DALI signal from the T-port of an LCN-UPP or LCN-UPS and transfers it to the terminals. 2 DSI channels or 2 DALI channels can be controlled indepentently from each other, over the four screwless terminals, (only modules with series nr 1006.. = July/2006) or later.

Connection:

The flat cable of the LCN-DDR is for connecting to the T-port of an LCN-module. A loop through T-port is available on the LCN-DDR.

A key converter (LCN-T8, -TU4x, -Tex) can be connected here.

return conductor
DSI-output 2

T-port
to the LCN-UPP
or LCN-UPS

return conductor

DALI-output
DSI-output 1

T-port

black
blue

L
power supply

N

Operating as DSI:

The electronic control gears (ECG,s) that are connected to the DSI-output, follow the 1st output, the ones connected to the DSI-2 , the 2nd output .

Operating as DALI:

Only the 1st output is switched. On this control line (Bus), all DALI control gears are connected parallel: DALI ECG´s can be addressed.

LCN sends group commands to the DALI interface whilst in operation. The groups 1, 2 and 3 are fixed groups: All ECG´s that are a member of the DALI group 1, follow the 1st LCN-output. ECG´s in group 2 the 2nd and all members of the group 3, follow the 3rd LCN-output. Due to this, all the extensive LCN functionalities are available, even under DALI (timers, ramps, light scenes, and so on.)

Over LCN, DALI ECG´s can also be addressed directly, all 64 addresses (plus 16 group addresses) are possible. Because the LCN Bus telegram can present all DALI functions, almost all of the DALI commands can be parameterized on LCN keys.

When installing, all DALI ECG´s have to be given addresses once. They firstly become a DALI address and additionally a DALI group address. We recommend to use the DALI programming devices from the respective manufacturer. Commonly a graphical diagram of the ECG is shown, which makes the addressing simpler.

Alternatively the addresses can also be given with the LCN-PRO.

The ECG´s respond differently from each single manufacturer, no success can be guaranteed when giving the addresses. LCN does not evaluate DALI telegrams, so that some functions from each ECG manufacturer are not available.

Note:

● The LCN-DDR module will not function when connected to EIB-Merten Trancent push-buttons, the LCN-LSH, -GT4D, -GT6D, -GT10D or the -AD2!
When operating an LCN-GT4D/-GT10D, no DALI/DSI signals can be given out !

● **Use a programming device from the respective ECG manufacturer for addressing.**

● The control gears from the company TRIDONIC can be used without limitations after year of manufacture 2012 !

Technical data:

connection

power supply:	230V AC ±15%, 50-60Hz
power consumption:	1W
power connection:	fine wire 0,75mm² with wire end-sleeves, length 160mm
LCN-connection:	T-connection cable length 160mm

ECG-interface

terminals/wire type:	screwless, 0,4-0,8mm
max. amount of ECG´s:	DSI: 10 ECG´s per output
	DALI: 16 ECG´s only output 1

installation:

operating temperature:	$-10^{\circ}C..+ 40^{\circ}C$
air humidity:	max. 80% rel., non condensing
protection art:	IP20 when installing in flush mounted boxes, only stationary installation according to VDE632, VDE637
dimensions:	50 mm ø x 22 mm

The ECG-control lines carry N-potential!