

DALI power supply for 32 ECG's (electronic control gear)

The LCN-NDH is a DALI-power supply for an optional operation on the LCN-HU module, firmware 170205 (Feb. 2013) or later.

It is simply switched parallel to the DALI output of the HU module and extends then the amount of connectable electronic control gears up to 32.

When operating the LCN-NDH, it is additionally possible to operate the control gears in the normal mode, instead of in the energy efficient DALI-LCN mode (low level). Through this, the lights will be switched on fully if a cable breakage occurs. In the LCN mode, the lights will keep their last brightness level if an error occurs.

Function

LCN sends group commands to the DALI-interface. The DALI group addresses 1, 2, 3 and 4 are permanently combined with the electronic outputs: All ECGs, that are a member of group 1, follow the 1st output, the ones in group 2 follow the 2nd, and so on.

Due to this, there are extensive LCN functions available, (timers, ramps, light scenes, status messages and such like) even with DALI-ECG's and you will avoid complicated DALI parameterizations.



LED's
Betriebsspannung &
DALI-Kommunikation

Notes

- Older LCN-HU´s could be destroyed when operating with the LCN-NDH. **Please make sure that the series number of the module begins with 17.. or higher!**
- The DALI operation is only then possible, when LCN-GT4D,s/-GT10D´s are not being operated at the same time. Excluded is also operating lights with LCN iLED (=“LEDnet”) connections at the same time.
- To address the ECG´s, please use a programming device from the respective ECG manufacturer.
- The control gears from the company TRIDONIC after year of manufacture 2012, can be used without limitation!

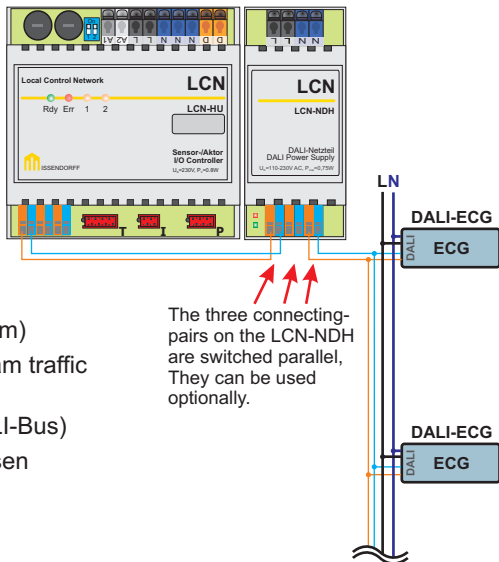
Preparing for operation

If you would like to choose the DALI normal mode (lights switch on fully after cable breakage), set up the output settings of the LCN-HU in the LCN-PRO output settings to “DALI NDH” on.

Connection

In the DALI operation, only the 1st ECG output on the LCN-HU will be switched, the other ECG terminals are without function. The LCN-NDH is switched parallel to this.

The LCN-NDH can also be used as a small distributor.



LED's:

- green on, red off = standby (no telegram)
- green+red flashing = active, DALI telegram traffic
- both off = error (no supply or short circuit DALI-Bus)
- = or "DALI LCN" chosen

Technical data:**Input**

input voltage:	230V AC $\pm 15\%$, 50/60Hz (110V AC available)
power consumption:	1,5W
terminals/wire type:	screwless, solid max. 2,5mm ² or fine wire with wire end-sleeves max 1,5mm ² loop through current max. 16A

Output

output voltage:	according to DALI - specification, interface polarity
terminal/wire type:	solid or fine wire 0,5-1,5mm ²
amount of DALI-participants:	max. 32 ECG's all together

Einbau

operating temperature:	-10°C to +40°C
air humidity:	max. 80% rel., non condensing, protection art IP20
environmental conditions:	for use as stationary installation accord. to VDE-632,-637
measurements/installation:	38mm (2HP) x 92mm x 66,5mm / DIN rail mounting 35mm (DIN50022)

Technical information and images are non binding. Changes are reserved.
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