

Manufacturer Declaration

Additional hints for compensating disturbances in TouchDIM operation mode of QT*i* DALI ballasts

In TouchDIM operation mode of DALI ECGs (i.e. QT*i* DALI...(DIM)) disturbance voltages due to capacitive coupling effects may lead to unmeant effects on the DALI line. Especially for line lengths > 25m (whole line length between push button and ECG DALI interface), this effect has to be considered. Pls. be aware of the following hints to avoid such disturbances (to be seen as amendment of QUICKTRONIC INTELLIGENT Technical Guide 2009):

1) Toggle Switch

Using a Toggle Switch between Phase L and Neutral Line N (see Fig. 1) a connection of the two DALI lines can be realized in ECGs` Standby mode. As a result, no disturbance coupling effect is possible.

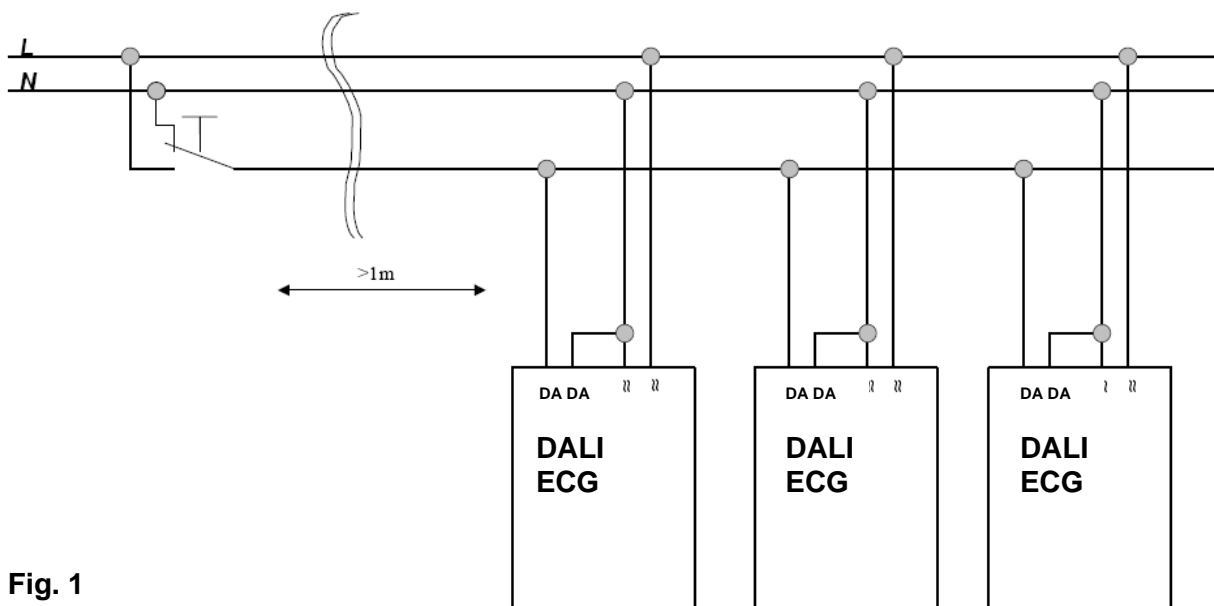


Fig. 1

2) Capacitor for Compensation

Using DALI line lengths > 25m leads to a capacitive compensation of at least 10nF/m line length (i.e. 300nF at 30m, 400nF at 40m etc.). That capacitive compensation (250V, X2 type) has to be installed in parallel to **one ECG`s DALI** interface. Another possibility is, to achieve the compensation via

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parallel switching of capacitors being installed to several ECGs (total capacity has to be achieved, see Fig. 2).

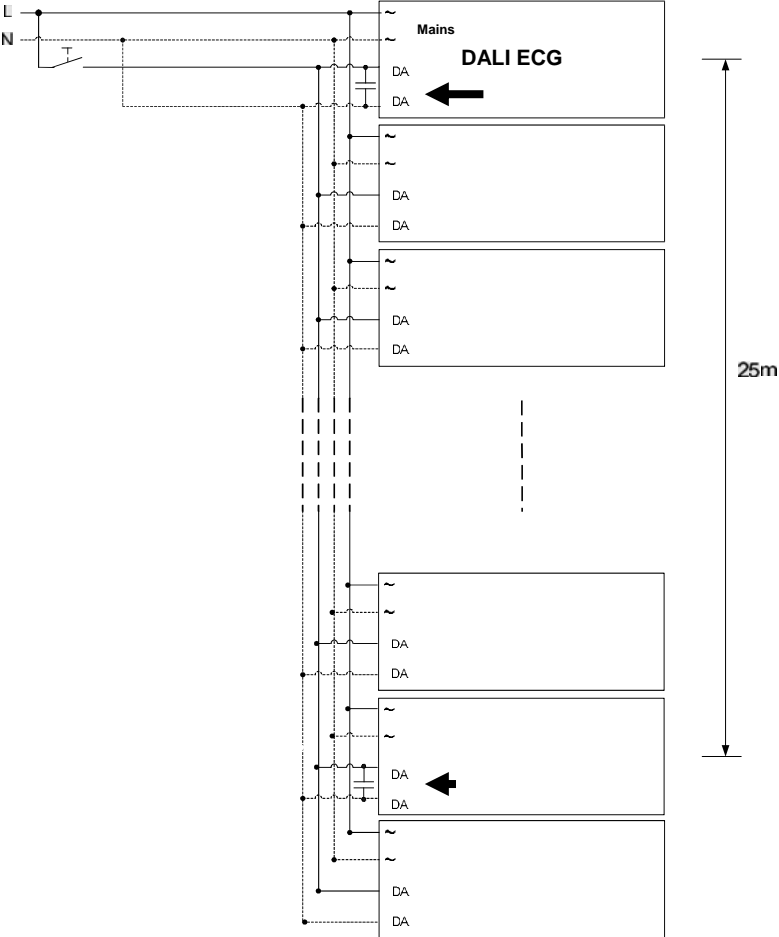


Fig. 2

Kind Regards

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