

EDA (Excellum Dali Adapter) C2C02 – EDA C2S01 – DALI-PS



GENERAL SYSTEM LAYOUT

Please refer to the attached drawing "C2-ELM-NETWORK-LAYOUT" for the general system layout.

PREPARATION

- 1. Determine the location of the components in the building. taking into account the following rules:
 - The length of both the RS232 line (max. 8m) and the DALI line (max. 300m with maximum conductor cross-section of 2.5mm²) require careful selection of the mounting location. Moreover, for commissioning, the RS232 connector has to be easily accessible for addressing the DALI loads.
 - These components are designed for mounting on a rail in an electrical box. If a different mounting method is applied, the necessary protective measures must be taken.
 - All components connected to the GreenBus[™] of RS232 line must be installed so that they are safely electrically isolated from the mains voltage. This must be checked for the DALI line in particular: within the electronic ballast there is no safe isolation between the mains voltage and the DALI line, so the entire DALI line must be treated as if it were a mains voltage.
- 2. Do not work on live components. Prior to installing components or making connections, switch off all mains supplies. Check that also UPS or emergency power is disconnected!
- 3. Prior to any work, make sure you fully understand and are able to follow the instructions. For additional DALI documentation, consult <u>www.dali-ag.org</u>

<u>CAUTION – WARNING – IMPORTANT</u>

THE GREENBUS AND THEE RS232 LINE MUST BE COMPLETELY INSTALLED AND TREATED AS A SELV CIRCUIT (SELV=SAFETY EXTRA LOW VOLTAGE).

THE GREENBUS AND THE RS232 LINE MUST THEREFORE ALWAYS BE ADEQUATELY ISOLATED FROM THE MAINS VOLTAGE, THE DALI LINE OR OTHER HIGH VOLTAGES.

INSTALL THE EDA AND DALI-PS IN COMPLIANCE WITH ALL LOCAL STANDARDS AND REGULATIONS, WHICH MAY DIFFER FROM COUNTRY TO COUNTRY AND EVEN FROM REGION TO REGION.

REFER TO LOCAL REGULATIONS AND CONTACT A RECOGNISED INSPECTION BODY IN CASE OF DOUBT.

INSTALLATION & COMMISSIONING

- 1. Mount the EDA (Excellum Dali Adapter) and DALI-PS (Digital Addressable Lighting Interface Power Supply) on a rail in an electrical box or other suitable enclosure.
- 2. Connect electrically according to the diagrams under ELECTRICAL CONNECTION. These components are not designed for making branches; use extra branching terminals for this purpose. Watch the polarity of the DALI line connection of the EDA (the polarity is irrelevant for the DALI line but not for the EDA).
- 3. The DALI-PS can supply up to 250Ma (maximum allowed current in compliance with the DALI standard).
- 4. The operation of the EDA and DALI-PS has been tested with the following electronic ballast types:
 - Philips HFR-EII DALI
 - Osram Qti-DIM DALI
 - Huco EVG-HP ... HC DIM (DALI)
 - Tridonic PCA EXCEL one4all

Contact Excellum for other electronic ballast types.

Only "0" type DALI loads, and no other controllers, are allowed on the DALI line; contact Excellum for other load types.

- 5. Individual installation instructions are available for ELM units, GreenBus[™], luminaire modules and sensor modules, and should be consulted as appropriate.
- 6. Commissioning of DALI loads requires additional hardware and software, which can be supplied separately by Excellum.



ELECTRICAL CONNECTION

The 230V connections must be fused. A 2A MCB is recommended. Consult the DALI-PS documentation for additional instructions.

TECHNICAL DATA

C2C02 Excellum Dali Adapter

Mechanical: L90xH75xD60mm DIN rail mounting (5 module widths)

Enclosure material: fibre reinforced PC Flammability class: V0 as per UL 94

Cover cap material: transparent PC Flammability class: V2 as per UL 94

IP20, to be mounted in an electrical box

Electrical: 230V~ 50Hz Power consumption: max. 3.5W Connectors suitable for 0.2-2.5mm² --- stripping length 8mm Ambient temperature: 0°C -40°C Humidity: Max. 90% non-condensing

C2S01 Dali Power Supply

Mechanical: L35xH90xD60mm DIN rail mounting (2 module widths)

IP30, to be mounted in an electrical box

Electrical: 85-264V~ 50/60Hz Output: 22VDC - 250mA Connectors 230V side suitable for 0.5-2.5mm² --- stripping length 6mm Connectors DALI side suitable for 0.5-1.5mm² --- stripping length 6mm Ambient temperature: 0°C -40°C Humidity: Max. 90% non-condensing

Consult the DALI-PS documentation for additional information.

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