

## 8-Subnet DALI Controller (478)

Helvar

freedom in lighting



The 8-Subnet DALI Controller can control up to eight DALI channels of up to 64 devices. It is for controlling ballasts and drivers when device addressing is not required.

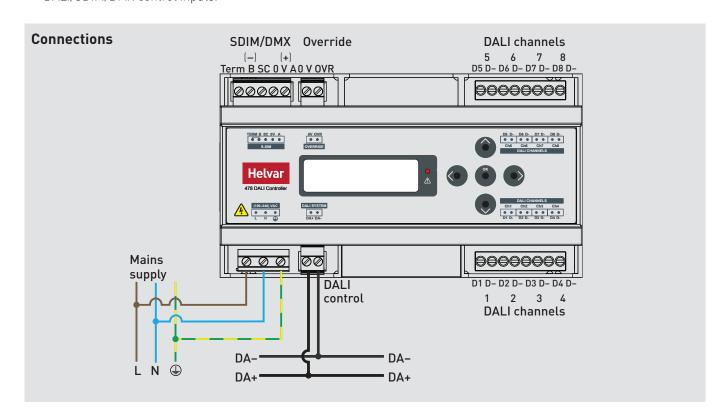
This reduces commissioning and maintenance costs, as the load devices can be simply replaced. The flexible control inputs support multiple protocols by routing an input address or group to its corresponding subnet output.

Connect the Controller to a DALI network, and configure using Helvar's Designer or Toolbox software.

## **Key Features**

- Control using DALI broadcast messages on each subnet.
- Integral DALI power supply supports up to 512 DALI devices (8 × 64 devices: 2 mA per driver/ballast).
- Lamp failure reporting per subnet.
- Lower commission costs device addressing/grouping on subnet not required.
- DALI/SDIM/DMX control inputs.





#### Input/Output terminals

## SDIM/DMX

A: Data +
B: Data -

**0V:** Data reference

SC: Screen: not data reference
Term: Link to B for termination

**Override** 

**OVR**  $V_{in} < 1.5 \text{ V}; I_{short} = 1 \text{ mA}$ 

**0 V** 0 V return

#### DALI channels 1-8

**DA+** D1;D2;D3;D4;D5;D6;D7;D8

**DA-** D-

Note: Max. 64 devices per channel.

## Mains supply AC

L LiveN Neutral

Protective earth must be connected.

#### **DALI** system

DA+ DA-



# Technical Data Freedom in lighting

**Connections** 

Mains supply: Solid core: up to 4 mm<sup>2</sup>

Stranded: 2.5 mm<sup>2</sup>

**DALI:** Wire section: 0.5 mm<sup>2</sup> – 2.5 mm<sup>2</sup>

Max. length: 300 m @ 1.5 mm<sup>2</sup>

**SDIM/DMX:** 0.22 mm<sup>2</sup> – 1.5 mm<sup>2</sup> low-loss

RS485 type (multistranded, twisted

and shielded)

**Cable rating:** All cables must be mains rated.

Power supply

Mains supply: 100 VAC - 240 VAC (nominal)

85 VAC – 264 VAC (absolute)

45 Hz – 65 Hz

External MCB Max. 6 A

**protection:** The external power supply must be

protected.

**Isolation:** Between mains supply, DALI

outputs, DALI system, and SDIM/ Override connectors. DALI channels are not isolated from

each other.

**Standby power:** No standby mode – DALI power

provided for DALI channels.

Max. total losses: 7 W

**DALI consumption:** 2 mA (DALI system input)

**Inputs** 

Control: DALI, SDIM or DMX
Override (OVR): Wired override input

**User interface:** 5 push buttons for configuration

**Outputs** 

**DALI:** 8 output channels

Max. load per output: 128 mA (up to 64 devices, limited

by current consumption)

Operating conditions

Ambient temperature: 0 °C to +40 °C

Relative humidity: Max. 90 %, noncondensing

Storage temperature:  $-10 \, ^{\circ}\text{C}$  to  $+70 \, ^{\circ}\text{C}$ 

**Conformity and standards** 

EMC emission: EN 55015
EMC immunity: EN 61547
Safety: EN 60950-1

**Environment:** Complies with WEEE and RoHS

directives.

**DALI:** EN 62386:2009 edition 1

Configuration software

**Designer version:** 4.2.18 or higher **Toolbox version:** 2.3.3 or higher

#### Mechanical data

Material: Polycarbonate/ABS mix, UL94 V-0

**IP rating:** IP 00 (For installation in a

restricted access location only.)

**Mounting:** DIN rail mounting

Weight: 250 g

**Module dimensions:** 9 module width: 160 mm × 90 mm

× 62 mm

## Dimensions (mm)

