

# User manual

version 1.0

## DALI10V



0-10V to DALI converter

0-10 or 1-10V input (sink/source)

DALI output (all/group/address)

power supply from DALI bus

input voltage signalling

DIN rail mounting (1 module)

overload and short circuit protection

DALI10V is a 0-10V (1-10V) converter on the DALI bus.

The minimum voltage at which the lights are switched on is adjustable, as is the maximum voltage for which the lights are switched on at 100%.

It is possible to set whether DALI10V will control all luminaires (broadcast), a specific group or an individual luminaire.

DALI10V according to the DALI2 standard can optionally send input voltage information to the bus.

With the DALI2+ extension it can directly control the luminaires.

| Technical Specifications    |                       |                 |
|-----------------------------|-----------------------|-----------------|
| input                       | 0-10 V (1-10V)        |                 |
| output                      | DALI                  |                 |
| supply voltage              | powered from DALI bus |                 |
| consumption                 | 3                     | mA              |
| cross section of wires      | 0,08 – 1,5            | mm <sup>2</sup> |
| degree of coverage          | IP20                  |                 |
| ambient working temperature | 0 ÷ 50                | °C              |
| storage temperature         | -10 ÷ 70              | °C              |
| mass                        | 45                    | g               |

## DALI2

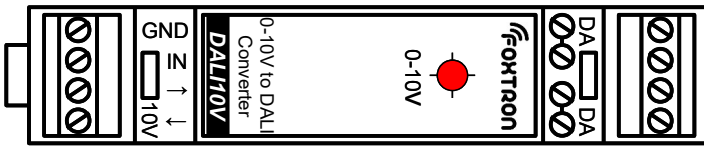
DALI10V according to the DALI2 standard can optionally send input voltage information to the bus.

The sent "Event value" is sent with a resolution of 0.1V.

## DALI2+ configuration

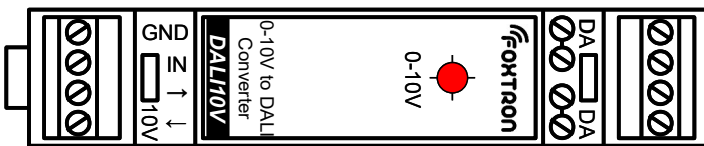
|                    |  |
|--------------------|--|
| Controlled address | Bcast – control of all luminaires<br>Grp – group control 0-15<br>Addr – control of one luminaire with address 0-63 |
| Voltage Zero       | Voltage for which the lights are still off.<br>For 1-10V input set to 1V.  |
| Voltage Max        | The voltage for which the lights are already at maximum.   |

## Signaling



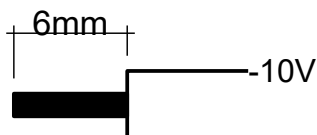
| 0-10V signalling       | input voltage                  | output level on DALI |
|------------------------|--------------------------------|----------------------|
| <p>Flicker</p>         | 0 – “Voltage Zero”             | OFF                  |
| <p>Flicker</p>         | “Voltage Zero” – “Voltage Max” | 1-99%                |
| permanent illumination | “Voltage Max” – 10V            | 100%                 |

## Clamps connection



|         |  |
|---------|--|
| DA / DA | DALI bus connection<br>(two conductors interchangeable)  |
| GND     | signal ground  |
| IN      | 0-10V control signal input   |
| 10V →   | short circuit the terminals if DALI10V has a weak voltage of 10V on the IN terminal (for SINK type drivers)<br>disconnect for SOURCE type driver |
| 10V ←   |  |

### wire preparation



Dimensions (v mm)

