DOVIT

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D-4C-8R010-DALI

4 inputs / 8 relay outputs 10A - 1 analogue output 0-10V - 2 DO.Bus - 1 Dali Master



Features

- Dimensions: 6 DIN modules, 104x60x90 mm
- Standard box for DIN rail mounting
- 4 digital inputs (potential-free contacts, e.g. push-buttons or switches). Signal current: 2mA
- 8 Power contacts 10A cos(fi)=1 | 500W for motors | 3A Inductive power: e.g. transformers, potentiometers, etc., with 8 NO (Normally Open) relays with contact type = AgSnO2
- 1 analogue output 0-10V. Maximum output current: 25mA
- 1 DALI Master output with 150mA at 13.8V power supply (max. 25 DALI lighting actuators) allowing the control of up to 8 DALI addresses (or group addresses) and DALI slave control. Up to 16 DALI addresses can be controlled (see 'Operating Descriptions' on the next page)
- 2 DO.Bus communication interfaces
- Power supply from Do.Bus line (bus power supply unit supplied separately)
- Maximum consumption 350mA (all relays ON)
- Operating temperature (°C) -5° to +45°.
- Non-condensing operating humidity <90%
- IP20

⚠ **Maximum total load on device as sum of all loads: 4000 W**

CE

EMC – EMISSION and IMMUNITY: Directive 2014/30/EU

Safety- L.V. – SAFETY REQUIREMENTS: Directive 2014/35/EU

EMC - emission specification: EN 55032:2012/AC:2013
Information technology equipment. Radio disturbante Characteristics. Limit and methods of measurement

L.V. - safety specification: EN 62368-1:2014/AC:2015
Information technology equipment. Safety. General requirement

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Functions

Outputs:

- Direct output with switch-off delay (or activation if inverted)
- Output with step-by-step functionality
- Timer contact output (configurable in seconds and minutes)
- Output with contact status storage when bus power is restored
- Outputs with direction of movement blocking function for motorised equipment
- Outputs with interlocking function for motorised equipment and end-timers
- Outputs with time management in ms for sunshade control
- Outputs that can be combined with scenarios

Analog output:

- 0-10Vanalog output. Maximum output current: 25mA
- Proportional control for fan speed with or without the control of on/off valves
- Compatible with both 0–10 V and 1–10 V dimmers, with or without phase-cut control

Digital inputs:

- Direct input with reverse functionality (on pressed and off released, and vice versa)
- Input with single or multiple press and release commands
- Input with quick or long press commands
- Input with scenarios and group function
- Input with function for analogue dimmer settings and sunshade rotation
- Input with synchronisation status when bus power is restored

DALI outputs:

- Master Dali outputs up to 8 channels with phase cut relay + 8 freely assignable Dali channels
- During programming, each relay output can also be considered as a DALI address. Up to 16 addresses (or group addresses) can be controlled on the Dali bus. Physical relay outputs programmed in Dali cannot be used for other functions.

- Dovit DALI modules use the 'Direct Arc Power Control' (DAPC) function in master mode, i.e. the Dovit module takes full control of the DALI devices connected to the DALI output. No other masters can be connected to the same bus (e.g. DALI multimaster controllers or other dali switches). Step-by-step logic, dimming, etc. are handled directly by the intelligent Dovit module. Any commands (such as pushbuttons or sensors) to control the DALI devices must be connected to the inputs of the Dovit modules. Each DALI device, in addition to a DOVIT intelligent module, can also be controlled by Dovit servers and apps.

- With DAPC control, DALI 1 and DALI 2 devices are controlled by the Dovit Bus in on/off and dimming mode (0..100%).

- The power supplies of the DALI DT6 devices can have 2 separate DALI addresses in order to dim 2 independent channels (normally used for white balance control). In this case, with the Dovit DALI module, it will be possible to send the DAPC command to the 2 independent channels, either as on/off or as dimming and possibly to mix the 2 channels with scenes and graphic functions from the Dovit app.

- DT8 DALI DT8 devices are generally used to drive RGB or RGBW lamps; in this case with a Dovit DALI module it will not be possible to perform colour tuning, but it will instead be possible to control on/off and dimming (in the case of RGB to the preset colour.)

- Before purchasing a DALI device (1/2/6/8) check that DAPC control is supported

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Connection : (example for DALI lamp lines on different BUS modules)

