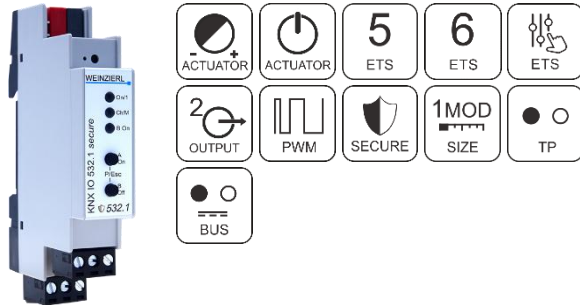


Data sheet

KNX IO 532.1 secure

KNX dimming actuator 1-fold PWM with relay



(Art. # 5503)

Application area

The KNX IO 532.1 *secure* is a compact combined dimming/switching actuator with 1 PWM dimming output for LEDs and 1 bistable relay output.

The dimming actuator can be used e.g. for LED panels or stripes. Besides controlling the dimmer by switching, rel. dimming and dimming value, several optional functions are integrated, including scenes, automatic, slumber function or staircase light.

The switching actuator provides the function for universal outputs including scene control, timer, staircase lighting and heating valves (PWM for thermoelectric valve drives).

Two push buttons and three LEDs allow a local operation and a visualization of the device state.

In addition to the output channels the device includes 16 independent functions for logic or timer control. Furthermore, direct control with ETS is possible without download.

The device supports KNX Data Security.

Technical Specification

Electrical safety

- Protection (acc. EN 60529): IP20

CE marking according to

- Low voltage directive 2014 / 35 / EU
- EMC directive 2014 / 30 / EU
- RoHS directive 2011 / 65 / EU
- EN 63044-3: 2018
- EN 63044-5-1: 2019
- EN 63044-5-2: 2019, EN 63044-5-3: 2019
- EN 61000-6-2: 2019
- EN 61000-6-3: 2021
- EN 63000: 2018
- EN 55015: 2013 + A1: 2015, EN 61547: 2009

Environmental requirements

- Ambient temp. operating: -5..+45 °C
- Ambient temp. non-op.: -25..+70 °C
- Rel. humidity (non-condensing): 5..93 %

Mechanical data

- Housing: plastic
- DIN rail mounted device, width: 1 units (18 mm)
- Weight: approx. 60 g

Controls and indicators

- 2 buttons and 3 LEDs (multicolor)
- KNX programming button with LED (red)

Power supply

- KNX bus approx. 5 mA

Connectors

- Connector for KNX bus (red / black)
- Pluggable screw connector (3 poles) for dimming
- Pluggable screw connector (3 poles) for switching
- Cross-section of connectors: 1.5..2.5 mm²

Output (dimming actuator)

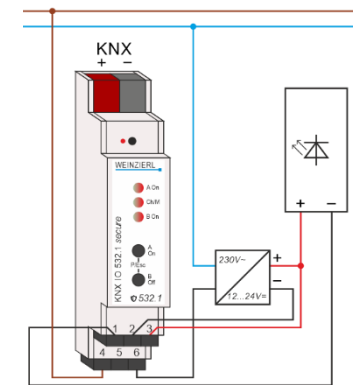
- PWM (frequency 480 Hz / 600 Hz)
- Supply voltage: 12..24 V_{DC}
- Max. load current: 6 A
- Max. P_{out}: 144 W

Output (switching actuator)

- Relay type: 230 V_~ / 10 A, bistable
- Depending on load type (capacitive or inductive) the switching power can be reduced significantly.

Installation Instructions

- The device may be used for permanent interior installations in dry locations or within distribution boards with DIN rail.

**WARNING**

- The device must be mounted and commissioned by an authorized electrician.
- The prevailing safety rules must be heeded.
- The device must not be opened.
- For planning and construction of electric installations, the relevant guidelines, regulations and standards of the respective country are to be considered.
- The device is a permanently connected equipment: A readily accessible disconnect device shall be incorporated external to the equipment.
- The installation requires a 16 A fuse for external overcurrent protection.
- The power rating is indicated on the side of the product.

Product database for ETS 5/6

www.weinzierl.de/en/products/532.1/ets6

Manual

www.weinzierl.de/en/products/532.1/manual

CE Declaration

www.weinzierl.de/en/products/532.1/ce-declaration

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