

FEATURES

- External 110V 50/60Hz power supply.
- Up to 3 speeds control for ceiling fans.
- Manual control through push button and LED indicator.
- 10 Logic functions.
- Total data saving on KNX bus failure.
- Integrated KNX BCU.
- Dimensions 67 x 90 x 35mm (2 DIN units).
- DIN rail mounting (EN 50022), through pressure.
- Conformity with the CE directives (CE-mark on the right side).

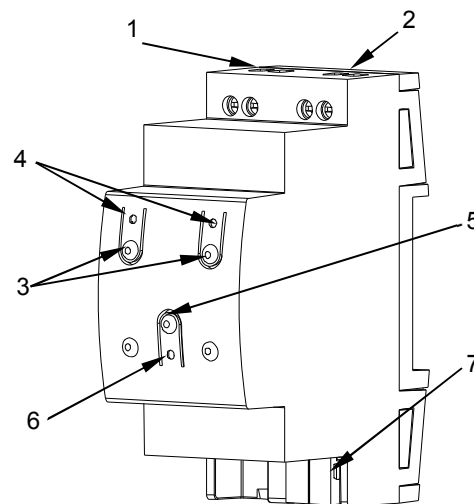


Figure 1: FANinBOX 110V 1CH

| | | | |
|----------------------------|-------------------------|--------------------------|-------------------------|
| 1. Power supply input | 2. Fan output | 3. Speed control buttons | 4. Speed indicator LEDs |
| 5. Programming/Test button | 6. Programming/Test LED | 7. KNX Connector | |

Programming/test button: short press to set programming mode. If this button is held while plugging the device into the KNX bus, it enters the safe mode. If this button is held for more than 3 seconds, the device enters the test mode.

Programming/Test LED: programming mode indicator (red). When the device enters the safe mode, it blinks (red) every half second. The manual mode is indicated by the green color. During the start-up (reset or after KNX bus failure) and if the device is not in safe mode, it starts a blue blinking sequence.

GENERAL SPECIFICATIONS

| CONCEPT | | DESCRIPTION | | |
|-------------------------------|---------------------|---|-----|-------|
| Type of device | | Electric operation control device | | |
| KNX supply | Voltage (typical) | 29VDC SELV | | |
| | Voltage range | 21..31VDC | | |
| | Maximum consumption | Voltage | mA | mW |
| | | 29VDC (typical) | 3.9 | 113.1 |
| 24VDC ¹ | 10 | 240 | | |
| Connection type | | Typical TP1 bus connector for 0.80mm Ø rigid cable | | |
| External power supply | | 110VAC 50/60Hz | | |
| Operation temperature | | 0°C .. +55°C | | |
| Storage temperature | | -20°C .. +55°C | | |
| Operation humidity | | 5 .. 95% (No condens.) | | |
| Storage humidity | | 5 .. 95% (No condens.) | | |
| Complementary characteristics | | Class B | | |
| Protection class | | II | | |
| Operation type | | Continuous operation | | |
| Device action type | | Type 1 | | |
| Electrical stress period | | Long | | |
| Degree of protection | | IP20, clean environment | | |
| Installation | | Independent device to be mounted inside electrical panels with DIN rail (EN 50022) | | |
| Minimum clearances | | Not required | | |
| Response on KNX bus failure | | Data saving according to parameterization | | |
| Response on KNX bus restart | | Data recovery according to parameterization | | |
| Operation indicator | | The programming LED indicates programming mode (red) and test mode (green). The output LEDs indicate its status (fixed = full speed; fast/slow flashing = high/slow speed; off = stopped) | | |
| Weight | | 109g | | |
| PCB CTI index | | 175V | | |
| Housing material | | PC FR V0 halogen free | | |

¹ Maximum consumption in the worst case scenario (KNX Fan-In model)

| OUTPUTS SPECIFICATIONS AND CONNECTIONS | | |
|--|--|--|
| CONCEPT | DESCRIPTION | |
| Number of outputs | 1 | |
| Output type | Relays based control device | |
| Maximum recommended load per output | 100W | |
| Minimum load per output | 30W | |
| Short-circuit protection | NO | |
| Overload protection | NO | |
| Connection method | Screw terminal block | |
| Cable cross-section | 0.5-2,5mm ² (IEC) / 26-12AWG (UL) | |
| Outputs per common | 1 | |
| Maximum response time | 15ms | |
| Lifetime (cycles) | Mechanical (min.) | 1 000 000 (@ 180cpm) |
| | Electrical (min.) | 50 000 (@20cpm, max. current and resistive load) |

| EXTERNAL POWER SUPPLY SPECIFICATIONS AND CONNECTIONS | | |
|--|--|--|
| CONCEPT | DESCRIPTION | |
| Voltage | 110VAC | |
| Connection method | Screw terminal block | |
| Cable cross-section | 0.5-2,5mm ² (IEC) / 26-12AWG (UL) | |

WIRING DIAGRAMS

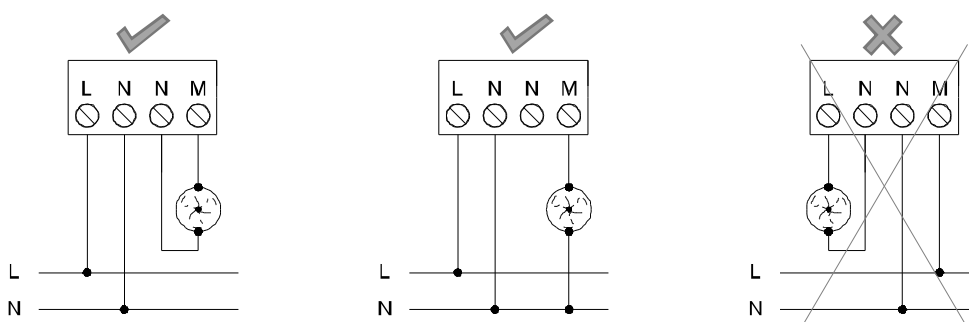
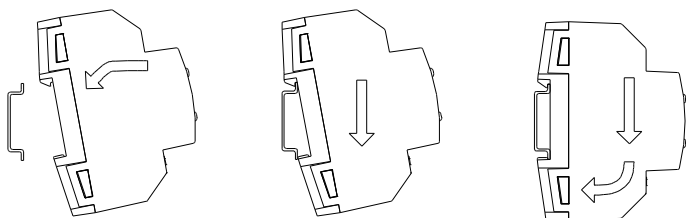


Figure 2: Wiring diagram of a fan

△ In order to ensure the expected status of the relays, please check that the device is connected to the KNX bus before energizing the power circuit.

△ Use for ceiling fans. Do not use other load to avoid damages.

Attaching FANinBOX 110V 1CH to DIN rail:



Removing FANinBOX 110V 1CH from DIN rail:

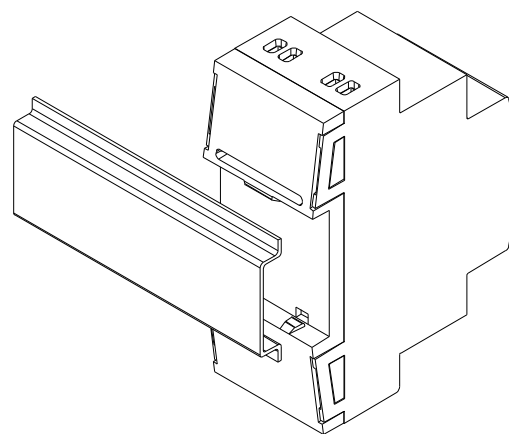
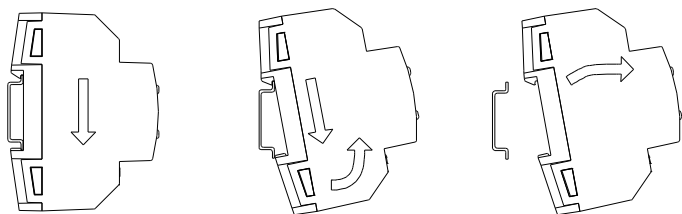


Figure 3: Mounting FANinBOX 110V 1CH on DIN rail

SAFETY INSTRUCTIONS

- Installation should only be performed by qualified professionals according to the laws and regulations applicable in each country.
- Do not connect the mains voltage nor any other external voltage to any point of the KNX bus; it would represent a risk for the entire KNX system. The facility must have enough insulation between the mains (or auxiliary) voltage and the KNX bus or the wires of other accessories, in case of being installed.
- The facility must be equipped with a device that ensures the omnipolar sectioning. Installation of a 10A mini-circuit-breaker is recommended. To prevent accidents, it must remain open in case of manipulation of the device.
- Once the device is installed (in the panel or box), it must not be accessible from outside.
- Keep the device away from water and do not cover it with clothes, paper or any other material while in use.
- The WEEE logo means that this device contains electronic parts and it must be properly disposed of by following the instructions at <http://zennio.com/weee-regulation>.