FanCoil Module With 0-10V (KNX)

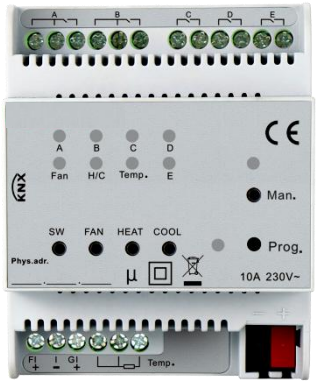
Datasheet

Product Introduction

This FanCoil Module is a multifunctional control device suitable for central heating and cooling systems. It supports both 230V AC motors and 24V AC motors with a 0-10V control interface, along with lighting load control capabilities. Featuring screw terminals for electrical connections and direct KNX bus connectivity via KNX terminals, it eliminates the need for an external power supply.

Features

- **Two 0-10V outputs for fan or coil control**
- **Supports open/close valve and PWM valve control for 2-pipe/4-pipe systems**
- **3-speed (high, medium, low) control with status feedback**
- **Temperature data collection function**



Specification

- Product model: KXAC-B1FC1
- Input voltage: 21~30V DC
- Bus current: <15mA
- Charging current: <24mA
- Output: 5 relay channels

Rated voltage: 230V AC (50/60Hz)

Rated current and capacitive: 10A/105uF

Maximum switching current: 16A/240V AC

Maximum switching DC (resistive load): 16A/30V DC

- Output: 0~10V

Control signal: 0~10V, with isolation

Signal type: Analog output

Driving capacity: Maximum 1.5mA (per channel)

- Temperature detection: Three-wire PT1000 temperature sensor

(Measurement range -45°C to 80°C, accuracy ±1°C)

- Bus power consumption: <450mW
- Power loss (10A): <1W
- Operating temperature: -5°C to 45°C
- Operating humidity: 0 to 93% (non-condensing)
- Installation: On standard 35mm DIN rail
- Connection:

Bus connection terminals (red/black), 0.8 mm Ø

Output connection terminals: Use screw terminals for connection

(use wire size 0.5-2.5mm², torque 0.4N.m)

- Dimensions:72*90*64(mm)
- Certification： CE、KNX

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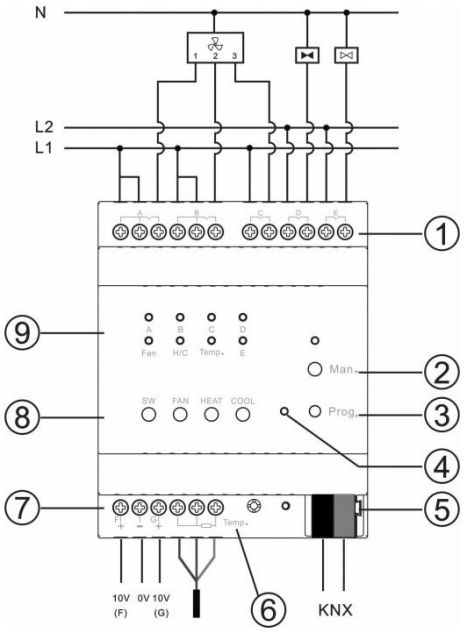
Wiring Diagram



① 5 relay outputs: Configurable for fan speed (A/B/C), valve control (D for heating valve, E for cooling valve), or general switch output based on parameter settings.

② Manual/automatic control switch button: Press and hold for 1s to switch to manual mode, with the indicator light turning on.

③ Programming button: Assign physical addresses.

④ Programming indicator light: Red for programming physical address; green flashing indicates that the device application layer is running normally.

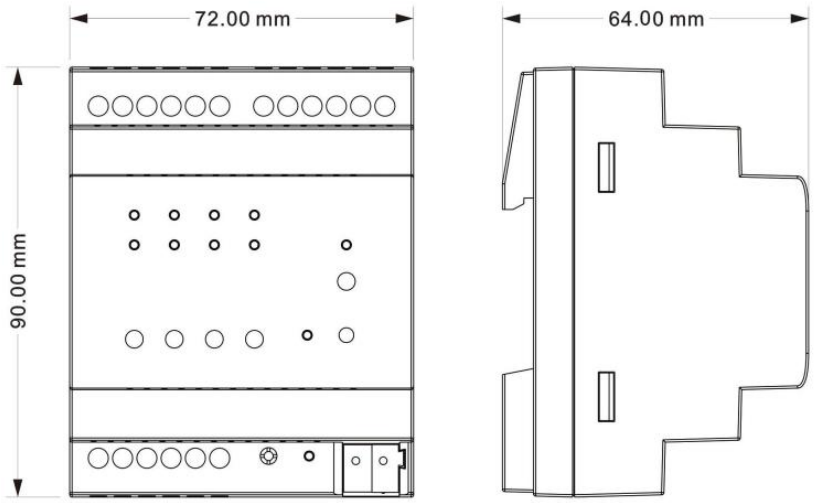
⑤ KNX bus connection terminals.

⑥ 3-wire PT1000 temperature sensor: Monitor local environmental temperature.

⑦ Two 0-10V outputs: For fan speed or valve output based on parameter settings;

⑧ Control button group: From left to right: switch output , fan speed, heating, and cooling controls.

Product Dimensions (mm)



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