

KNX keyboard for external access control BX-E-AK12

BX-E-AK12 is an intelligent numeric keypad that acts as an access control system, designed and built for outdoor installations as it is water- and dust-proof and resistant to vandalism. The container is IP65 certified.

The numeric keypad is a KNX device, with 12 mechanical keys, backlit on each single key. In addition to the numeric keys, there are also 2 freely configurable keys (A and B). The keyboard provides access management via numeric code without the need for any other support (key or magnetic card); the numerical code can be set to 4 or 6 digits. The KNX firmware installed is dedicated to access control, with the possibility of memorizing up to 1000 codes.

It is particularly suitable for widespread accommodation facilities with different external accesses, such as bungalows and resorts, and can also be used to compartmentalize industrial, civil and service structures in general. Since it is a KNX device, it can be integrated into systems where other KNX numeric keypads are installed inside for internal access control, such as the Qubik Doory numeric keypads.



Technical features

- Power supply via KNX bus 21-32 Vdc
- Current absorption from bus < 15 mA
- Numeric keypads in black plastic material
- Each keyboard includes the numbers 0 to 9 and the command keys A and B
- Key backlighting
- KNX programming mode entry/exit with button on the back and also by combination of front buttons
- KNX programming signaling LED on the back and front
- Surface wall mounting
- KNX software dedicated to access control, with the possibility of storing up to 1000 codes of 4 or 6 digits.
- Ambient energy management function
- Operating temperature: -20 ÷ +50 °C
- Use: internal or external
- Connection to bus line via KNX terminal
- IP65 protection rating
- Dimensions: rectangular 51 x 92 x 27 mm (LxHxW)
- Thickness 8 mm

Qubik Collection – Thermostats

KNX thermostat in white/black square/rectangular glass.

The Blumotix thermostat of the QUBIK KNX series is equipped with 8 buttons, a central OLED display with blue characters and two RGB LEDs. The keys are all capacitive; in the Line version all 8 buttons are freely configurable (management of on/off commands, dimmers, shutters and blinds, execution and learning of scenarios, object sequences, local thermostat commands, etc.). In the Button version the buttons become 4 free + 4 thermoregulation; or they can be dedicated to thermoregulation control, the 2 RGB LEDs are freely programmable. The device includes a thermostat with integrated PI controller for driving heating and cooling appliances, valves, 2 and 4 pipe fan coils, 2 and 4 pipe thermal zones and for managing the HVAC mode and dedicated set points. The device has an integrated temperature probe: by using its parameters it is possible to balance the temperature reading on an external KNX temperature reading.



The version with temperature, humidity and CO2 sensor is available in the Button, Marble and Vertical lines.

The humidity probe sends relative value information integrated with a threshold dedicated to the dew point already calculated by it, useful for controlling actuators for regulating environmental relative humidity. The CO2 probe sends PPM and VOC (Volatile Organic Compounds) values with an output signal for equivalent CO2 with regulator function and thresholds. The library includes logical control functions for the management of mechanical ventilation with adjustment thresholds. It is also possible to manage hotel and B&B rooms with room energy functions, with dedicated logic.

It is also possible to request customized versions of the glasses, which includes changing the icons and inserting logos.



Technical features

- Power supply: Via EIB/KNX bus 21 ÷ 32 V dc Current absorbed ≤ 12 mA
- Electromagnetic compatibility: Normative references: EN 63044-5-2.
- Meets the electromagnetic compatibility directive 2014/30/EU
- Conditions of use: Normative references: EN 50491-2 Operating temperature: -5 °C ÷ +45 °C Storage temperature: -20 °C ÷ +55 °C Relative humidity (non-condensing): max. 93% Usage environment: indoors
- Certifications: KNX
- Temperature/humidity probe: Measurement range -40°C ÷ +125°C Probe type Digital
- Probe tolerances: ± 0.2°C accuracy in the range 0°C ÷ +60°C ± 0.8°C accuracy in the range -40°C ÷ + 120°C ± 2%RH accuracy in the range 20%RH ÷ 80%RH