Collegamento alla rete KNX Il collegamento all’alimentazione elettrica avviene mediante un corretto installazione sul PC che comunica attraverso un programma applicativo per i parametri di configurazione.

Dati tecnici

- Velocità di comunicazione: 9600 baud
- Memoria volatile d’appoggio con buff. ‘immagine M-Bus’
- Scambio registri di tipo Coil, Input, Holding Register e
- Indirizzamento dei dispositivi da 0 a 250
- Velocità di comm. da 1200 a 115200 baud
- Porta di comunicazione RS485
- LED (7) verde: Stato Dispositivo. In modo Normale: lampeggio veloce se configurazione corretta; OFF = nessun errore presente. In modo Avvio: lampeggio veloce quando viene ricevuto un telegramma sulla porta RS485 in Modo Avvio (anche se non configurato correttamente); lampeggio lento = configurazione errata; OFF = nessun errore presente.

Collegamento all’alimentazione

Il collegamento all’alimentazione elettrica avviene mediante i monotori e via (0) situati inferiormente. Il dispositivo supporta un campo ampio di tensioni di alimentazio- ne, sia di tipo in continua che di tipo in alternata. L’indicazione ‘Schienalato’ indica che il dispositivo è privo di alimentazione.

Altre informazioni di utilità

- Il montaggio, il collegamento elettrico, la configurazione e la messa in servizio dell’apparato possono essere eseguiti esclusivamente da personale qualificato in campo elettrico.
- Informazioni dettagliate sulla possibilità di configurazione, consultare il manuale applicativo dell’apparecchio disponibile alla pagina web dell’Ekinex.
- La non corretta installazione sul PC di un alimentatore elettronico può compromettere la funzionalità dell’alimentatore.
- Ekinex è un marchio registrato da Ekinex S.p.A. Via Novara 37, I-28100 Varese (NO), Italia. Tel. +39 0321 1828980. E-mail: info@ekinex.com www.ekinex.com

Not: Per l’utilizzo del sistema di configurazione è necessario l’installazione di specifiche librerie di software. Per ulteriori informazioni, consultare il manuale applicativo dell’apparecchio disponibile alla pagina web dell’Ekinex.

Oltre alle informazioni di utilità, il supporto tecnico ekinex® è a disposizione per consulenza gratuita e supporto tecnico.

Gateways electronically available for mounting on the wall or in a cabinet in the same manner as the KNX® terminal devices and supports the KNX® bus protocol. Communications between the gateway and the KNX® devices is carried out via the KNX® bus. The gateway can be used for the following purposes:

- As a gateway for KNX® devices
- As a gateway for BACnet® devices
- As a gateway for Modbus® devices
- As a gateway for DMX® devices
- As a gateway for M-Bus® devices
- As a gateway for Profinet® devices

The gateway is designed to work with the following KNX® device types:

- KNX® bus modules
- KNX® bus system devices
- KNX® bus control devices
- KNX® bus sensor devices
- KNX® bus actuator devices

The gateway is designed to work with the following BACnet® device types:

- BACnet® bus modules
- BACnet® bus system devices
- BACnet® bus control devices
- BACnet® bus sensor devices
- BACnet® bus actuator devices

The gateway is designed to work with the following Modbus® device types:

- Modbus® bus modules
- Modbus® bus system devices
- Modbus® bus control devices
- Modbus® bus sensor devices
- Modbus® bus actuator devices

The gateway is designed to work with the following DMX® device types:

- DMX® bus modules
- DMX® bus system devices
- DMX® bus control devices
- DMX® bus sensor devices
- DMX® bus actuator devices

The gateway is designed to work with the following M-Bus® device types:

- M-Bus® bus modules
- M-Bus® bus system devices
- M-Bus® bus control devices
- M-Bus® bus sensor devices
- M-Bus® bus actuator devices

The gateway is designed to work with the following Profinet® device types:

- Profinet® bus modules
- Profinet® bus system devices
- Profinet® bus control devices
- Profinet® bus sensor devices
- Profinet® bus actuator devices

The gateway is designed to work with the following device types:

- KNX® bus modules
- KNX® bus system devices
- KNX® bus control devices
- KNX® bus sensor devices
- KNX® bus actuator devices

The gateway is designed to work with the following BACnet® device types:

- BACnet® bus modules
- BACnet® bus system devices
- BACnet® bus control devices
- BACnet® bus sensor devices
- BACnet® bus actuator devices

The gateway is designed to work with the following Modbus® device types:

- Modbus® bus modules
- Modbus® bus system devices
- Modbus® bus control devices
- Modbus® bus sensor devices
- Modbus® bus actuator devices

The gateway is designed to work with the following DMX® device types:

- DMX® bus modules
- DMX® bus system devices
- DMX® bus control devices
- DMX® bus sensor devices
- DMX® bus actuator devices

The gateway is designed to work with the following M-Bus® device types:

- M-Bus® bus modules
- M-Bus® bus system devices
- M-Bus® bus control devices
- M-Bus® bus sensor devices
- M-Bus® bus actuator devices

The gateway is designed to work with the following Profinet® device types:

- Profinet® bus modules
- Profinet® bus system devices
- Profinet® bus control devices
- Profinet® bus sensor devices
- Profinet® bus actuator devices

The gateway is designed to work with the following device types:

- KNX® bus modules
- KNX® bus system devices
- KNX® bus control devices
- KNX® bus sensor devices
- KNX® bus actuator devices

The gateway is designed to work with the following BACnet® device types:

- BACnet® bus modules
- BACnet® bus system devices
- BACnet® bus control devices
- BACnet® bus sensor devices
- BACnet® bus actuator devices

The gateway is designed to work with the following Modbus® device types:

- Modbus® bus modules
- Modbus® bus system devices
- Modbus® bus control devices
- Modbus® bus sensor devices
- Modbus® bus actuator devices

The gateway is designed to work with the following DMX® device types:

- DMX® bus modules
- DMX® bus system devices
- DMX® bus control devices
- DMX® bus sensor devices
- DMX® bus actuator devices

The gateway is designed to work with the following M-Bus® device types:

- M-Bus® bus modules
- M-Bus® bus system devices
- M-Bus® bus control devices
- M-Bus® bus sensor devices
- M-Bus® bus actuator devices

The gateway is designed to work with the following Profinet® device types:

- Profinet® bus modules
- Profinet® bus system devices
- Profinet® bus control devices
- Profinet® bus sensor devices
- Profinet® bus actuator devices

The gateway is designed to work with the following device types:
Main functional characteristics

- **Technological data**: 24Vac or 12, 35 Vac
- **Power consumption at 24 Vac**: 3.5 VA

Other characteristics

- **Mounting**: in plastic material
- **Mounting on 35 mm rail (according to EN 60715)**
- **Ethernet (IP) protocol (20) installed device**
- **Safety class**: I
- **Protection class**: IP20
- **Modular device** (1 MU = 18 mm)
- **Dimensions**: 72 x 90 x 50 mm (WxHxD)
- **Operating temperature**: 0 to 35°C
- **Storage temperature**: -25 to 55°C
- **Humidity**: 93% relative humidity

Control and connection elements

All the versions are provided with LED for status indication, a terminal block for the connection of the KNX bus line to the device and a maximum of one RS485 bus connection to the KNX bus via Ethernet. Depending on the version, terminal blocks for connection of a serial RS485 or a M-Bus line and one or two DIP-switches may be present.

Connection elements

- **RS485** connector (2) for device communication with KNX equipment. In the EK-BJ1-TP-TCP, EK-BJ1-TP-P and EK-BJ1-TP-N versions the Ethernet port is used also for the communication.
- **Terminal blocks** for connection of a KNX bus line
- **Terminal blocks** (3) for power supply (all versions)
- **Terminal block** (10) for connection of a Modbus line

Mounting

The device has degree of protection IP20, and is therefore suitable for indoor use. The device can be mounted on standard M-Bus side (EK-BK1-TP version).

Others connection

Connection to the KNX bus line

The connection to the KNX bus line is via the terminal block (10) located at the top of the device. The device supports a wide range of supply voltages, both alternate and direct.

Other connections

Connection to the KNX bus line

The connection to the terminal blocks (10) is carried on the top. In order to terminate the RS485 line and balance the line impedance, the terminal resistance has to be inserted, setting the 1-way DIP-switch (3) to ON. The maximum extension of the RS485 network is 1200 m.

Other non-connection

Connection to the Ethernet network

The connection is made with the RJ45 connector (2) located on the upper side.

Configuration

The device may be carried out with an application program for PCs that communicate through the Ethernet port integrated in the device. These activities must be carried out according to the design of the building communication system determined by a qualified planner.

State

Operating

- ON: The device has been activated, is no longer guaranteed at the end of the warranty period

- OFF: The device has been deactivated, the display area is empty

Warning: The electrical connection of the device to the power supply lines must be performed by a qualified technician. The incorrect installation may result in electric shock, fire and malfunction of the device. To make sure the power supply has been turned off.

Note.

- Users, who want to program the device, have to be certified or have a written permission from EKINEX, to avoid any malfunction.

- In case of tampering, the compliance with the essential requirements of the relevant directives for which the device has been certified, is no longer guaranteed.

- In case of tampering, the device must be returned to the manufacturer at the following address: EKINEX S.p.A. Via Novara 37, I-28010 Vaprio d’Agogna (NO) Italy.

- For further information on the product, please contact the ekinex® technical support at the e-mail info@ekinex.com or visit the www.ekinex.com website.