Catalog 2009

Building and Home Evolution

KNX

made in Italy

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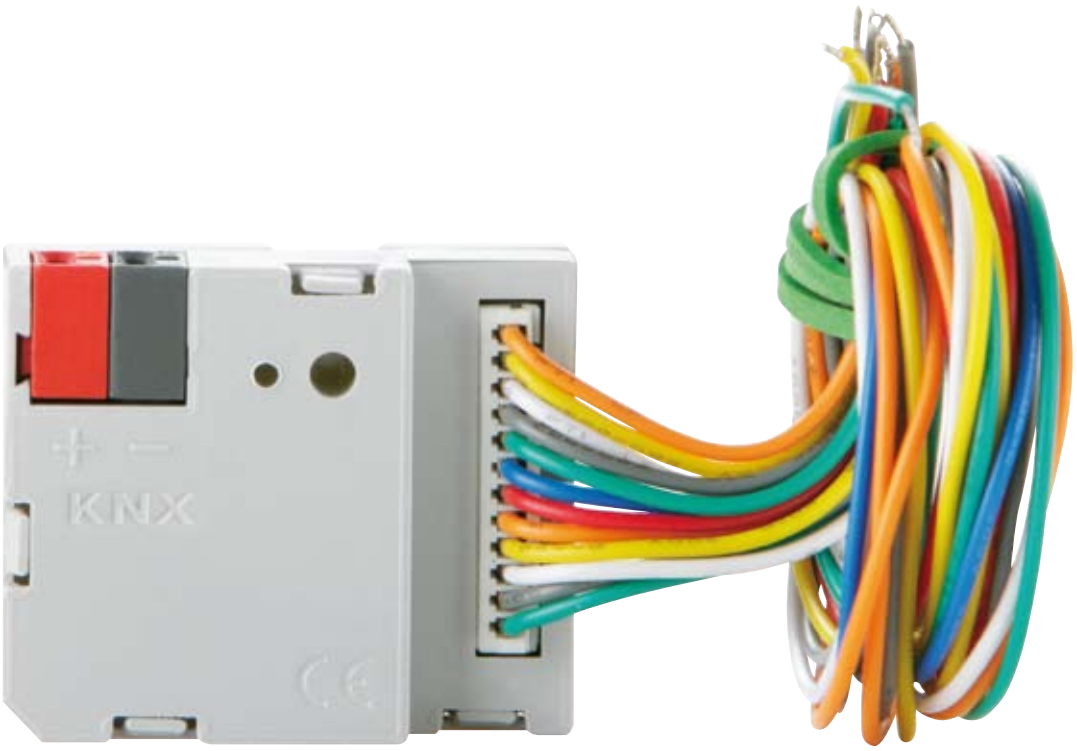
Eelectron is an Italian company that produces KNX standard electronic hardware and software devices. Our range of products is aimed towards hotel automation, home evolution and building automation.

Member of the KNX Association for the Manufacturers category since 2005, Eelectron is a leading example on the national scene in the field of European standards protocols.

The philosophy of Eelectron is to future aspects of design and aesthetics and functionality research with the development of highly innovative devices, combining KNX interoperability and compliance with the strictest International quality standards.

The experience of Eelectron staff is at the full disposal of our users, with ongoing training activities, product assistance and continuing development that pays particular attention to client requirements, emerging applications, energy savings and the implementation of simple, efficient and client-oriented solutions.

We develop our products together with their users, and never forget they are the makers of our future.



Synchronicity

Synchronise events
Synchronise colours

Synchronicity is a range of KNX standard products for managing accesses, thermoregulation and utilities in hotels and services sector.

The product range is characterized by glass plates, available in 10 different colours, by Plexiglas® plates, available in 3 colours, and customized on demand.

All the products for embedding can be freely installed in a casing box with 2 or 3 modules.

The solution is completed by software packages from the eHotel and eAccess series, and comes with DIN rail modules dedicated to thermoregulation (fan coil management, fan speed, proportional valves, conditioning, systems with 2 or 4 tubes, humidity sensors), controls for implementation (input, output, mixed forms, dimmer and shutter modules), displaying (touch panels, portable terminals), communication (gateways versus other protocols), and multimedia (multi-room audio for conferences).

Design: Paolo Haigh Castiglioni

Everything for KNX® protocols

160 mA Power Supply

Power Supply for generating bus voltage for a line with a maximum of 16-bus users. Equipped with an integrated coil for decoupling the voltage supply from the bus and a switch for interrupting the tension and reconnection of the user buses connected to the line. Can be connected to the network with coupling screw clamps. Suited for mounting on tracks DIN EN 50022. Connection to the bus is made through a bus clamp.

Technical Specifications

Dimensions
- H x W x D: 80 x 72 x 58 mm

Mounting
- Width (UM=18mm) 4 mod. DIN

Connection
- Bus line terminal for connecting bus, conductor max 0.8 mm²
- Power Supply 230V
- screw terminal plugs, conductor max. 2,5 mm²

Power
- Voltage: 230V ac, 50-60Hz
- Output Voltage: DC 29 +-1V

Output current
- Max 160mA with Short Circuit Protection

Control elements
- 1 switch for interrupting the output tension

Warnings
- 1 green LED for voltage bus presence
- 1 red LED overload warning

Order Code

Power Supply 160 mA	PS00A01KNX

320 mA Power Supply

Power Supply for generating bus voltage for a line with a maximum of 16-bus users. Equipped with an integrated coil for decoupling the voltage supply from the bus and a switch for interrupting the tension and reconnection of the user buses connected to the line. Can be connected to the network with coupling screw clamps. Suited for mounting on tracks DIN EN 50022. Connection to the bus is made through a bus clamp.

Technical Specifications

Dimensions
- H x W x D: 80 x 72 x 58 mm

Mounting
- Width (UM=18mm) 4 mod. DIN

Connection
- Bus line terminal for connecting bus, conductor max 0.8 mm²
- Power Supply 230V
- screw terminal plugs, conductor max. 2,5 mm²

Power
- Voltage: 230V ac, 50-60Hz
- Output Voltage: DC 29 +-1V

Output current
- Max 320mA with Short Circuit Protection

Control elements
- 1 switch for interrupting the output tension

Warnings
- 1 green LED for voltage bus presence
- 1 red LED overload warning

Order Code

Power Supply 320 mA	PS00A02KNX

640 mA Power Supply

Power Supply for generating bus voltage for a line with a maximum of 16-bus users. Equipped with an integrated coil for decoupling the voltage supply from the bus and a switch for interrupting the tension and reconnection of the user buses connected to the line. Can be connected to the network with coupling screw clamps. Suited for mounting on tracks DIN EN 50022. Connection to the bus is made through a bus clamp.

Technical Specifications

Dimensions
- H x W x D: 80 x 72 x 58 mm

Mounting
- Width (UM=18mm) 4 mod. DIN

Connection
- Bus line terminal for connecting bus, conductor max 0.8 mm²
- Power Supply 230V
- screw terminal plugs, conductor max. 2,5 mm²

Power
- Voltage: 230V ac, 50-60Hz
- Output Voltage: DC 29 +-1V

Output current
- Max 640mA with Short Circuit Protection

Control elements
- 1 switch for interrupting the output tension

Warnings
- 1 green LED for voltage bus presence
- 1 red LED overload warning

Order Code

Power Supply 640 mA	PS00A03KNX

Line Coupler / Area KNX Bus

Line/area coupler is necessary to connect in communication (bidirectional) 2 areas or line KNX. The device acts as a galvanic separator of 2 lines or areas, enabling messages exchange. It can be configured with ETS for the full transfer of telegrams, or with a filter table and / or line amplifier.

Technical Specifications

Dimensions
- H x W x D: 80 x 36 x 58 mm

Mounting
- Width (UM=18mm) 2 mod. DIN

Connection
- Main bus line: terminal connection bus, conductor max 0,8mm²
- Secondary bus line: terminal connection bus, conductor max 0,8mm²

Power
- From bus 21..30Vcc SELV

Control elements
- 1 button for ETS programming

Warnings
- 1 red LED for ETS programming
- 1 green LED for normal operation
- 1 yellow LED for alarm notification on the main line
- 1 yellow LED for alarm notification on the secondary line

Order Code

Line Coupler / Area KNX Bus	PS00A05KNX

KNX/USB interface bus

The device enables the KNX bus system to be interfaced to a PC equipped with a USB 1.1 or USB 2 port for programming or managing through appropriate software

Technical Specifications

Weight and dimensions
- Weight: 100 gr Dimensions: H x W x D: 90 x 36 x 65 mm

Mounting
- Width (UM=18mm) 2 mod. DIN

Connection
- Bus Line terminal for connecting bus, conductor max Ø 0,8mm²
- Plug USB Type B

Power supply
- From bus KNX 21 .. 30 VDC SELV <300 mW (for communication KNX) Additional 5V DC, <200mW supplied by the USB connection

Warnings
- 1 green LED to signal USB port is connected
  1 yellow LED to signal the communication

Electrical Safety
- Degree of protection (EN 60529): IP 20
- Bus: safety voltage SELV DC 24 V

EMC Requirements
- Fulfilled 61000-6-2-1 EN, EN 6100-6-3 and EN 50090-2.2
  Handling condition
  Ambient temperature during operation: -5 ° C to +45 ° C
  Storage temperature: - 25 + 70 ° C
  Humidity: max 93%

Approvals
- KNX/EIB Certifie

Order Code

KNX/USB interface bus	IN00A01USB

Bus Interface KNX / IP Router

With the KNX / IP router, a bidirectional communication among more KNX bus lines is possible through LAN networks. If the device is connected to a PC with an appropriate software (for example, ETS), it can also be used like a programming interface for KNX bus system. The IP address can be dynamically assigned via a DHCP server, or manually configured using ETS parameters. Communications are made in accordance with KNXnet / IP specifications. During the data transfer, it is possible to configure a filter table and keep up to 150 messages in the "buffer" memory.

DIN bus KNX/IP Interface

The interface KNX / IP is used to connect a PC with appropriate software (eg ETS) to the LAN, for programming and / or supervision of the KNX bus system. The IP address can be dynamically assigned via DHCP server or manually configured using parameters ETS. Communication takes place in accordance with the specifications KNXnet/IP. The device, for the operation, needs an extra nutrition.

Technical Specifications

Dimensions
- H x W x D: 90 x 36 x 65 mm

Mounting
- Width (UM=18mm) 2 mod. DIN

Connection
- Bus line terminal connecting bus, conductor max 0.8 mm²
- Additional Power: 2 screw terminals max conductor section 4 mm²
  Network LAN RJ45 socket

Power supply
- From bus KNX 21..30 Vcc SELV
- Additional 12-24V AC/DC ± 10%, MAX 800mW

Control elements
- 1 button for ETS programming

Warnings
- 1 red LED for ETS programming
- 1 green LED for communications over bus KNX
  1 green LED for communications over LAN

Electrical Safety
- Degree of protection (EN 60529): IP 20
- Bus: safety voltage SELV DC 24 V

Terms of use
- Ambient temperature during operating: -5°C to +45°C
- Storage temperature: - 25 + 55 °C
- Humidity: max 93%

Approvals
- KNX/EIB Certified

Order Code

KNX Bus / IP Router Interface	IN00A01RIP
DIN bus KNX/IP Interface	IN00A02IPI

Push button interface 4IN – 4 OUT LED

This product is intended as interface of cleaned contacts through sensors, traditional buttons, etc.., and 4 low voltage output channels for piloting of LED lamps on, for example, synoptic panels used to monitor other devices. Configuration via ETS.

KNX Software Functions

General
- Delay transmission on the bus after power supply restoration
- Debounce time
- Limited number of telegrams
- Parameter value entering after restoration of configurable bus voltage
- Cyclic enter of detected value selected on the input contact (ON, OFF, ON e OFF)
- Disabling the channel via bus
- Device ON LINE (cyclic sending that signals the proper functioning)

Control inputs ON / OFF
- Switching function ON / OFF stepper (toggle)
- Switching Function single ON or OFF (switch)

Control inputs DIMMER
- Control Dimmer with switching ON / OFF and DIM + / DIM-1 or 2 buttons
- Mode of controlling by a short or longer pressing of the button deciding the consequent operation.
- Mode of sending a percentage value (to scalar) in function of an input contact detection (locked or open)
- It is possible to send cyclic a dimeration value at configurable intervals

Entrance of shutter/ venetian blinds
- Movement controlling of shutters or venetian blinds or regulation controlling of reeds
- It is possible to get a single button controller just by pressing quickly or long or to get a double button (UP and DOWN).

Set input
- It is possible to send a value by pressing the button and to send another value by realising the button (from 1 to 64). Those values has been memorized in the external actuators by the object PT 18.001 (1 byte).

Led output
- Timed function
- Sending of state value
- LED state after the reconnection of the bus voltage
- Selecting of function ON/OFF or flashing.

Technical Specifications

Dimensions
- H x W x D: 43 x 36 x 16,8 mm

Mounting
- Embedding in rectangular boxes 2-3 modules, round figure or derivations

Connection
- Bus Line: 2 bus connection terminals, conductor max 0,8mm^2
- Inputs and outputs: connection plug with 10 poles wired with 24 AWG cable length 180m

Power supply
- KNX bus: 21 ... 30 Vcc SELV power absorbed < 10mA

Input specification
- 4 type ON/OFF contacts without potential
- Maximum length of connecting cables 8m
- Scanning voltage Un = 12V internally generated
- In Scanning power locked contact = 0,5mA for channel

Output specs
- 4 outputs for led piloting - Max 0,5 mA for every output
- Control elements
- 1 button for ETS programming

Warnings
- 1 red LED for ETS programming

Electrical Safety
- Degree of protection (EN 60529): IP 20
- Degree of protection (EN 61140): III
- Overextension class (following EN 60664-1): III
- Bus: safety voltage SELV DC 24 V
- Fulfilling of EN 50090 and EN 60664-1

EMC Requirements
- Fulfilling of EN 50081-1, EN 50082-2, EN 50090-2.2

Terms of use
- Following EN 50090-2.2
- Ambient temperature during operating: 5°C - 45°C
- Storage temperature: - 20 + 55 °C
- Humidity: max 90%

Approvals
- KNX/EIB Certified

CE marking
- Conformed to the low voltage directives (Housing and Industrial construction)

Order Code

Push Button Interface 4IN- 4OUT LED	IO44C01KNX

Combined module 4IN - 4OUT

The IO44A01KNX module is an EIB / KNX device for mounting on a DIN rail, and can be used for managing general binary inputs and outputs (ON / OFF) for any type of application. The unit is equipped with four physical zero potential ON / OFF inputs and four 16 A (AC1) relay outputs. With ETS, you can use each channel output relay for normal ON / OFF switching or in a programmed time mode (e.g. light settings). The inputs can be connected to buttons, traditional switches or a potential-free contact. The closure or opening of the contact and the state to be sent on the bus can be parameterized in such a way that you can send the state at programmed time intervals. ETS configuration.

KNX Software Functions

General
- relay state after reconnecting of bus power supply

Input
- Contacts scanning and switching ON/OFF based on the frontals of inputs signal.
- Cyclic transmission of the contact state.

Output
- Normal function with open/locked contact.
- Timed function

Technical Specifications

Weight and dimensions
- Weight 180 gr. Dimensions (H x W x D) 90 x 72 x 58 mm

Mounting
- Width (UM=18mm) 4 mod. DIN

Connection
- Bus Line: 2 bus connection terminals, conductor max 0,8mm^2
- Outputs: 2 screw clamps for channel, conductor section max. 4 mm^2
- Inputs: 3 screw clamps every 2 inputs, conductor section max. 4 mm^2

Power supply
- From bus KNX 21..30 Vcc SELV

Input specs
- 4 type ON/OFF contacts without potential
- max length of connecting cable 10mt
- Scanning voltage Un = 12V internally generated
- Scanning power In with locked contact = 0,5mA for channel

Relay output specification
- 4 output relay with cleaned contacts and portability:
- NA 16 A cos. 1 , 230 Vac
- NA 9 A cos. 0.6 , 230 Vac
- NA 0,26 A peak / 0.01 A cos. 0.38, 230 Vac

Control elements
- 1 button for ETS programming

Warnings
- 1 red LED for ETS programming

Electrical Safety
- Degree of protection (EN 60529): IP 20
- Protection class (following EN 61140): III
- Overextension class (following EN 60664-1): III
- Bus: safety voltage SELV DC 24 V
- Fulfilled EN 50090 and EN 60664-1

EMC Requirements
- Fulfilled EN 50081-1, EN 50082-2, EN 50090-2.2
- Terms of use- Following EN 50090-2.2
- Ambient temperature while operating: 0°C to 50°C
- Storage temperature: - 20 + 55 °C
- Humidity: max 90 %

Approvals
- KNX/EIB Certified

CE marking
- Conformed to the low voltage directives (Housing and Industrial construction)

Order Code

Combined module 4IN - 4OUT	IO44A01KNX

Combined 4IN - 4OUT Universal Module

The IO44B01KNX module is an EIB / KNX device for mounting on a DIN rail, and can be used for managing general binary inputs and outputs (ON / OFF) for any type of application. The unit is equipped with 4 physical ON / OFF inputs suited for interfacing with clean contacts, for example sensors, traditional buttons etc. Configurable via ETS for on / off control of dimmers, shutters, call settings, it can send a value as a percentage (scalar), and can be used as a channel for low-voltage output to control flashing signals to LEDs, for example for viewing states on synoptic panel intended for monitoring the system. The 4 relay outputs (230V AC 16 A (AC1)) can be timed, linked to logic function, forced in case of an alarm state, arranged in groups and monitored via status diagnostic objects. ETS configuration.

KNX Software Function

General
- Transmission delay on the bus after reconnecting power supply
- Debounce time
- Telegrams number limited
- Parameter for sending the value after reconnecting the bus configurable voltage
- Mode selection: cycling sending of the detected value on the input contact di (ON, OFF, ON e OFF)
- Disabling of the channel through the bus
- Device ON LINE (cyclic sending that signals the proper functioning)

Control inputs ON / OFF
- Switching function ON / OFF stepper (toggle)
- Switching Function single ON or OFF (switch)

Control inputs DIMMER
- Control Dimmer with switching ON / OFF and DIM + / DIM-1 or 2 buttons
- Mode of controlling by a short or longer pressing of the button deciding the consequent operation.
- Mode of sending a percentage value (to scalar) in function of an input contact detection (locked or open)
- It is possible to send cyclic a dimeration value at configurable intervals

Entrance of shutter/ venetian blinds
- Movement controlling of shutters or venetian blinds or regulation controlling of reeds

– It is possible to get a single button controller just by pressing quickly or long or to get a double button (UP and DOWN).

Set input

– It is possible to send a value by pressing the button and to send another value by realising the button (from 1 to 64). Those values has been memorized in the external actuators by the object PT 18.001 (1 byte).

Output

– Normal function with contact open /locked
– timed function (e.g., Lights in the corridor)
– state at the reconnection of bus voltage
– sending of state value
– logic function
– set function.

Technical Specifications

Weight and dimensions

– Weight: 180 gr. Dimensions: (H x W x D) 90 x 72 x 58 mm

Mounting

– Width (UM=18mm) 4 mod. DIN

Connection

– Bus line: 2 bus connection terminals, conductor max 0,8 mm^2
– Output: 2 screw clamps for channel, conductor section max. 4 mm^2
– Input: 3 screw clamps every 2 input, conductor section max. 4 mm^2

Power

– From bus KNX 21..30 Vcc SELV

Input specification

– 4 type ON/OFF contacts without potential
– Max length connection cable 30mt
– Scanning voltage Un = 12V internally generated

Specification about input configured as output

– Scanning power supply with locked contact = 0,5mA per channel

Specification about relay output

– 4 with relays with cleaned contacts and portability:
– NA 16 A cos. 1 , 230 Vac
– NA 9 A cos. 0.6 , 230 Vac
– NA 0,26 A peak / 0.01 A cos. 0.38, 230 Vac

Control elements

– 1 button for ETS programming

Warnings

– 1 red LED for ETS programming

Electrical Safety

– Degree of protection (EN 60529): IP 20
– Protection class (following EN 61140): III
– Overextension calls (following EN 60664-1): III
– Bus: safety voltage SELV DC 24 V
– Fulfilled EN 50090 and EN 60664-1

EMC Requirements

– Fulfilled EN 50081-1, EN 50082-2, EN 50090-2.2

Terms of use

– Following EN 50090-2.2
– Ambient temperature while operating: 0°C to 50°C
– Storage temperature: - 20 + 55 °C
– Humidity: max 90%

Approvals

– KNX/EIB Certified

CE marking

– Conformed to the low voltage directives (Housing and Industrial construction)

Order Code

4IN - 4OUT Universal Relay Module 16A	IO44B01KNX

Combined Universal Module 8IN - 8OUT

The IO88B01KNX module is an EIB / KNX device intended for fitting on a DIN rail for managing the generic binary (ON / OFF) inputs and outputs for any type of application. The unit is equipped with eight physical ON / OFF inputs for interfacing with cleaned contacts (eg sensors, traditional buttons, etc).. configurable by ETS for on / off control of dimmers, shutters, call settings and can be used as a channel for low-voltage output to control flashing signals to LEDs, for example for viewing states on synoptic panel intended for monitoring the system. The 8 relay outputs of 230V AC 16 A (AC1) can be timed, and associated with logic functions, force in case of alarm, grouped in settings and monitored throughout diagnostic and state objects, moreover 4 out of the 8 outputs can be operated manually via a switch on the front of the device. ETS configuration.

KNX Software Functions

General

– Transmission delay on the bus after reconnecting power supply
– Debounce time
– Telegrams number limited
– Parameter for sending the value after reconnecting the bus configurable voltage
– Mode selection: cycling sending of the detected value on the input contact di (ON, OFF, ON e OFF)
– Disabling of the channel through the bus
– Device ON LINE (cyclic sending that signals the proper functioning)

Control inputs ON / OFF

– Switching function ON / OFF stepper (toggle)
– Switching Function single ON or OFF (switch)

Control inputs DIMMER

– Control Dimmer with switching ON / OFF and DIM + / DIM-1 or 2 buttons
– Mode of controlling by a short or longer pressing of the button deciding the consequent operation.
– Mode of sending a percentage value (to scalar) in function of an input contact detection (locked or open)
– It is possible to send cyclic a dimeration value at configurable intervals

Entrance of shutter/ venetian blinds

– Movement controlling of shutters or venetian blinds or regulation controlling of reeds
– It is possible to get a single button controller just by pressing quickly or long or to get a double button (UP and DOWN).
– Set input
– It is possible to send a value by pressing the button and to send another value by realising the button (from 1 to 64). Those values has been memorized in the external actuators by the object PT 18.001 (1 byte).

Output

– Normal function with contact open /locked
– timed function (e.g., Lights in the corridor)
– state at the reconnection of bus voltage
– sending of state value
– logic function
– set function.

Technical Specifications

Weight and dimensions
- Weight: 180 gr. Dimensions: (H x W x D) 90 x 72 x 58 mm

Mounting
- Width (UM=18mm) 4 mod. DIN

Connection
- Bus line: 2 bus connection terminals, conductor max 0,8mm^2
- Output: 2 screw clamps for channel, conductor section max. 4 mm^2
- Input: 3 screw clamps every 2 input, conductor section max. 4 mm^2

Power supply
- From bus KNX 21..30 Vcc SELV

Input specification
- 8 type ON/OFF contact without potential
- Max length connection cable 30mt
- Scanning voltage Un = 12V internally generated
- Specification about input configured as output
- Scanning power supply with locked contact = 0,5mA per channel

Specification about relays output
- 8 with relays with cleaned contacts and portability:
- NA 16 A cos. 1 , 230 Vac
- NA 9 A cos. 0.6 , 230 Vac
- NA 0,26Apeak / 0.01 A cos. 0.38, 230 Vac

Control elements
- 1 button for ETS programming
- 4 lever switch on 8 output channels for manual starting of the functioning output also as indicators of contact position.

Warnings
- 1 red LED for ETS programming
- Electrical Safety Degree of protection (EN 60529): IP 20
- Protection class (following EN 61140): III
- Overextension (following EN 60664-1): III
- Bus: safety voltage SELV DC 24 V
- Fulfilled EN 50090 and EN 60664-1

EMC Requirements
- Fulfilled EN 50081-1, EN 50082-2, EN 50090-2.2
- Terms of use
- Following EN 50090-2.2
- Ambient temperature while operating: 0°C to 50°C
- Storage temperature: - 20 + 55 °C
- Humidity: max 90 %

Approvals
- KNX/EIB Certified

CE marking
- Conformed to the low voltage directives (Housing and Industrial construction)

Order Code

Combined Universal Module 8IN - 8OUT	IO88B01KNX

Combined 4 IN-2 OUT Module Shutters/ Venetian Blinds

This SH42A01KNX module is an EIB / KNX device intended for fitting mounting on a DIN rail inside the distribution panels. The actuator module allows the control of 2 independent mechanisms at 230 V AC, and is suitable for operating Venetian blinds or curtains, or the control of doors, windows and ventilation deflectors. In addition to remote controls via the KNX bus, the device can also have local UP / DOWN controls prepared for each channel put on the front of the cabinet, with LEDs indicating the UP / DOWN position of shutters. These controllers can be enabled by a manual button on the cabinet or alternatively, via the KNX bus. A LED indicates the transition from automatic operating mode (device controlled via the bus) to a manual mode (device controlled only by manual controls). The device has 4 binary inputs with potential-free contacts, for connection to traditional buttons or switches, which can be configured as 4 independent interface channels to the bus, or used to control 2 local outputs. The output contacts used for the UP / DOWN movement are interlocked mechanically to ensure the voltage reaches both contacts at the same time. ETS configuration.

KNX Software Functions

General
- Transmission delay on the bus after reconnecting power supply
- Debounce time
- Telegrams number limited
- Parameter for sending the value after reconnecting the bus configurable voltage
- Mode selection: cycling sending of the detected value on the input contact (ON, OFF, ON e OFF)
- Disabling of the channel through the bus
- Device ON LINE (cyclic sending that signals the proper functioning)

Control inputs ON / OFF
- Switching function ON / OFF stepper (toggle)
- Switching Function single ON or OFF (switch)

Control inputs DIMMER
- Control Dimmer with switching ON / OFF and DIM + / DIM-1 or 2 buttons

Input shutters and venetian blinds
- Controller of the shutters or venetian blinds movements and/or regulation of reeds
- It is possible to control just with a short or prolonged pressure on a single button or with a double button (UP e DOWN).
- Settings function

Output configuration
- Selection operating mode between shutters or venetian blinds.
- Enabling manual control through bus telegram
- Safety function (wind alarm, rain, etc.)
- locking channel function with various parameterizations
- Positioning in case ETS configuration.
- Settings function
- State indicator and sending of position value
- Local or remote signalling of out running
- Enabling shutter and reeds positioning value.
- Timing configuration: total run, changing direction pause, supplementary time of run Up and run Down, starting up delay, stop delay, step reeds regulation and total time for the reeds regulation.

Technical Specifications

Weight and dimensions
- Weight: 180 gr. Dimensions: (H x W x D) 90 x 72 x 58 mm

Mounting
- Width (UM=18mm) 4 mod. DIN

Connection
- Bus line: 2 bus connection terminals, conductor max 0,8 mm^2
- Output: 2 screw clamps for channel, conductor section max. 4 mm^2
- Input: 3 screw clamps every 2 input, (1UP, 1 DOWN/1COM) conductor section max. 4 mm^2

Power supply
- From bus KNX 21..30 Vcc SELV

Input specification
- 4 type ON/OFF contact without potential
- Max length connection cable 30mt
- Scanning voltage Un = 12V internally generated
- Scanning power supply with locked contact = 0,5mA per channel

Specification about relays output
- 2 Indipendent with carrying of relay contact:
- NA 16 A cos. 1 , 230 Vac

Control elements
- 1 button for ETS programming
- 1 switching button for MANUAL and AUTOMATIC mode (via bus)
- 2 manual control buttons (UP and DOWN) for each channel (LONG pressure =UP/DOWN; short pressure STOP/reeds regulation)

Warnings
- 1 red LED for ETS programming
- 1 LED for signalling MANUAL mode
- 2 LED for signalling UP/DOWN or TOP/BOTTOM for channel

Electrical Safety
- Degree of protection (EN 60529): IP 20
- Protection class (following EN 61140): III
- Overextension calls (following EN 60664-1): III
- Bus: safety voltage SELV DC 24 V
- Fulfilled EN 50090 and EN 60664-1

EMC Requirements
- Fulfilled EN 50081-1, EN 50082-2, EN 50090-2.2

Terms of use
- Following EN 50090-2.2
- Ambient temperature while operating: 0°C to 50°C
- Storage temperature: - 20 + 55 °C
- Humidity relativa: max 90 %

Approvals
- KNX/EIB Certified

CE marking
- Conformed to the CE directives (Housing and Industrial construction), ow voltage directives

Order Code

Combined Module 4IN - 2OUT	SH42A01KNX

Synchronicity

is a multi-standard modular range of products, for embedding on box with 2 or 3 modules; rectangular or round.

TM11A Thermostat

The TM11AxxKNX thermostat is an EIB / KNX device for controlling temperature applications in Home & Building Automation, and is characterized by the possibility of mounting on embedding boxes of 2 or 3 modules rectangular or round. It is available in a range of colours for the plastic housing, or glass finishes can be ordered separately, which allows you to match the thermostat to all types of environments. The thermostat features a large LCD for displaying the current temperature or the setpoint, fan speed, summer / winter mode and the 4 operating states. The unit is equipped with a physical ON / OFF input which can be used to interface a sensor for a window or some other device, and an output relay to control the speed 1 of the fan coil or even a zone valve. The thermostat can also be configured for using it in combination with an output ON / OFF module to control the three fan coil speeds. Control elements available to the user include two buttons for increasing or decreasing the setpoint temperature (current setting), and two buttons for increasing or decreasing the fan speed, or stopping the fan altogether. Device configuration, settings, parameters and communication objects can be accomplished with ETS software (Engineering Tool Software).

KNX Software Functions

General configuration
- Cyclic sending of the current temperature
- Cyclic sending of the current setpoint
- Enabling sending alarm for signalling a lack of power supply

Configuration for temperature regulation
- Configuration Regulation Type (ON/OFF, P, I, PI)
- System type (2/4 tubes ON/OFF, 2/4 Proportionate tubes.)
- Fan Coil type (1,2,3 speed or proportional speed)
- gauge of temperature sensor
- Temperature regulation coefficient (regulation setpoint differential)

Setpoint Configuration
- Setpoint settings: Comfort, Stand-by, Economy for summer/winter mode
- Setpoint setting antifreeze winter
- setting of maximal range for the setpoint regulation allowed on the user controller buttons

Input configuration
- Function “General use” or “Window sensor”
- Setting of the contact normally open/locked if configured as “window sensor”
- Mode definition (sending of control for Up and Down or commutation) for the “General Use”
- Function of cyclic sending of the state

Configuration of output relay
- Function “General use” or “Fan Coil Speed V1”
- Configuration of the contact normally open/locked
- With the “General Use” function configuration of the operating mode if normal or timed (timed OFF)

Technical Specifications

Weight and dimensions
- Weight 65 gr. Dimensions: (H. x W. xD) 78 x 110 x 39,8 mm

Mounting
- Mounting: on an embedding rectangular box with 2 o 3 modular units or on a round box Ø60mm, depth 40mm

Connection
- Line bus terminal connecting bus, conductor max 0.8 mm^2
- Input screw clamp, conductor section max. 1,5 mm^2
- Output relay screw clamp, conductor section max. 1,5 mm^2

Power supply
- From bus KNX 21..30 Vcc SELV

Input specification
- Number: 1 ON/OFF contact without potential
- Max length of connecting cable 10mt
- Scanning voltage Un = 12V
- Scanning power In with locked contact = 1mA for channel
- Output relay specification
- capacity of the relay contact 48 Vac, 1A AC1

Control elements
- 1 button for ETS programming
- 1 button: to increase the temperature setpoint
- 1 button: to decrease the temperature setpoint
- 1 button: to increase the fan coil speed
- 1 button: to decrease the fan coil speed

Warning
- 1 red LED for ETS programming
- 1 Display LCD B/N
- visual area: mm 43,5x43,5

Electrical Safety
- Protection degree (followingEN 60529): IP 20
- Protection class (following EN 61140): III
- Overextension class (following EN 60664-1): III
- Bus: safety voltage SELV DC 24 V
- Fulfilled EN 50090 and EN 60664-1

EMC Requirements
- Fulfilled EN 50081-1, EN 50082-2 and EN 50090-2.2
- Terms of use
- Following EN 50090-2.2
- Ambient temperature while operating: 0°C to 50°C
- Storage temperature: - 20 + 55 °C
- Humidity: max 90 %

Approvals
- KNX/EIB Certified

CE marking
- Conformed to the low voltage directives (Housing and Industrial construction)

Order code and Thermostat available colours

Light gray	TM11A01KNX
Anthracite	TM11A11KNX
White	TM11A21KNX

TM11B Temperature Probe

The TM11BxxKNX temperature probe is an EIB / KNX device for controlling temperature applications in home and building automation. It can be fitted in rectangular or round embedded boxes with 2 or 3 modules. The plastic housing is available in a range of different colours, and glass finishes can be ordered separately, allowing you to match the thermostat with any type of design. A large LCD display on the thermostat displays the current temperature and setpoint, fan speeds, heating mode / cooling mode, setpoint, window and CO2 status. The device has a physical ON / OFF input and an output relay for general use. Control elements available to the user are two buttons to increase and decrease the setpoint temperature, a button for adjusting the fan coil fan speed, and a button for manually changing the status (comfort, standby). By pressing two-button simultaneously, you can change settings related to the CO2 parameter as well. Suitable for operation in conjunction with a fan coil controller. ETS configuration.

KNX Software Functions

General configuration
- Setting displaying for detected temperature and setpoint or just for the detected temperature.
- Cyclic sending of temperature and current setpoint
- Setting of basic setpoint
- Setting of maximum range of setpoint regulation allowed on the user control buttons
- Gauge of temperature sensor

Configuration window state icon
- Configuration fan speed
- setting of speed number- setting step in % for the 3 speeds

Input configuration
- Mode definition (sending con and commutation)
- Function of cyclic state sending

Configuration output relay
- Configuration of contact normally open/locked
- Configuration of operating mode if normal or timed (OFF timed).

Technical Specifications

Weight and dimensions
- Weight 65 gr. Dimensions: (H. x W. x D.) 78 x 110 x 39,8 mm

Mounting
- Mounting: on an embedding rectangular box with 2 o 3 modular units or on a round box Ø60mm, depth 40mm

Connection
- Line bus terminal connecting bus, conductor max 0.8 mm^2
- Input screw clamp, conductor section max. 1,5 mm^2
- Output relay screw clamp, conductor section max. 1,5 mm^2

Power supply
- From bus KNX 21..30 Vcc SELV

Input specification
- Number: 1 ON/OFF contact without potential
- Max length of connecting cable 10mt
- Scanning voltage Un = 12V
- Scanning power In with locked contact = 1mA for channel
- Output relay specification
- capacity of the relay contact 48 Vac, 1A AC1

Control elements
- 1 button for ETS programming
- 1 button: to increase the temperature set point
- 1 button: to decrease the temperature setpoint
- 1 button: to modify the fan coil speed
- 1 button: to modify the comfort state, standby
- 2 buttons simultaneously, modify CO2 parameter

Warning
- 1 red LED for ETS programming
- 1 Display LCD B/N
- visual area: mm 43,5x43,5

Electrical Safety
- Protection degree (following EN 60529): IP 20
- Protection class (following EN 61140): III
- Overextension class (following EN 60664-1): III
- Bus: safety voltage SELV DC 24 V
- Fulfilled EN 50090 and EN 60664-1

EMC Requirements
- Fulfilled EN 50081-1, EN 50082-2 and EN 50090-2.2

Terms of use
- Following EN 50090-2.2
- Ambient temperature while operating: 0°C to 50°C
- Storage temperature: - 20 + 55 °C
- Humidity: max 90 %

Approvals
- KNX/EIB Certified

CE marking
- Conformed to the low voltage directives (Housing and Industrial construction)

Colour order codes TM11B

Light gray	TM11B01KNX
Anthracite	TM11B11KNX
White	TM11B21KNX

Glass Plate Support VTxxAx1ACC

Glass Plate support to be use with the TM series.

Ord. cod. and colours available for the glass plate support

Light gray	VTxxA01ACC
Anthracite	VTxxA11ACC
White	VTxxA21ACC

Note: fill in the xx with the glass colour code

Thermostat TM11A plexiglass

The version of the Thermostat TM11A full colored with plexiglass plate, maintains the same technical features of the version to be completed on glass frame.

Order code Plexiglass Version

Plastic & Plexiglass Silver	TM11A09KNX
Plastic & Plexiglass Black	TM11A19KNX
Plastic & Plexiglass White	TM11A29KNX

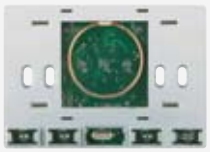
Temperature Probe TM11B plexiglass

The version of the Temperature Probe TM11B full colored with plexiglass plate, maintains the same technical features of the version to be completed on glass frame.

Order code Plexiglass Version

Plastic & Plexiglass Silver	TM11B09KNX
Plastic & Plexiglass Black	TM11B19KNX
Plastic & Plexiglass White	TM11B29KNX

TR22A Transponder Reader



The TR22A01KNX card reader is an EIB / KNX device dedicated to access card control with the transponder; it is customizable versatile and modular, and suitable for almost any application. Mounting boxes are embedded, rectangular or round with 2 or 3 modules. The plastic housing is available in a range of colours, and a glass finishes can be ordered separately, allowing the unit to be matched with every kind of design. The device has two physical ON / OFF inputs available for controlling the door open / close contacts or other signals (window contacts, bathroom pull alarms etc.). The device has two relays for lock management, courtesy light control or another use. On the reader front there are 4 LEDs, 3 of which are freely configurable, and used respectively for the reporting about: access granted, access denied, emergency, required room redo, room occupied or do not disturb. The transponder reading can be made at a distance of 30 mm. The primary feature is the number-control facility. If the code is consistent, the device will continue by verifying the validity of the "date" field (if enabled). Then the "password" will be checked with the associated codes with it (hours, customer number, service number), and enabled. If verified, the door will open, and (if set), the courtesy light will be turned on, and the reading will be forwarded to the bus. ETS configuration.

KNX Software Functions

General configuration
- Unique or differentiated transit sending by user type (4 types of user)
- Enabling expiring card date control, week days and hours allowed for the access.
- Enabling alarm sending for signalling the reconnection of the power supply

Configuration input 1 and 2
- Contacts and commutation scanning of ON/OFF on the basis of the input.
- Cyclic transmission of the contact state

Configuration output 1 relay
- Function "General Use" or control "Door opening"
- normal function with the contact normally open/locked. Timed function (OFF time, eg: release of the electrical lock.

Configuration output 2 relay
- Function "General Use" or control Courtesy light
- Normal function with the contact normally open/locked
- Timed function (OFF timed, eg: courtesy light)

Technical Specifications

Weight and dimensions
- Weight: 120 gr. Dimensions: (H x W. x D.) 78 x 110 x 37 mm

Mounting
- Mounting: In a rectangular embedded box with 2 or 3 modules or in a round box Ø60mm, depth 40mm

Connection
- Line terminal Bus connecting bus, conductor max 0.8 mm^2
- Input and output screw clamps, conductor section max. 1,5 mm^2

Power supply
- From bus KNX 21..30 Vcc SELV
- Supplementary 12-24V AC/DC ± 10% , MAX 150mA

Input specification
- 2 type ON/OFF contact potential
- Max lenght of connection cable10mt

– Scanning voltage Un = 12V internally generated
– Scanning power In with locked contact = 1mA per channel
– Ouput relay specification
– Number 2 with capacity of the contact relay: 24Vac 2 A AC1

Control elements
– 1 button for ETS programming

Warnings
– 1 red LED for ETS programming
– Frontal warning
– 1 LED red/green: Access denied /allowed
– 1 LED red: Room/busy/don't disturb/Alarm
– 1 LED amber: "Clean the room" or another alarm
– 1 LED green: "Help" or other alarm

Electrical Safety
– Degree of protection (EN 60529): IP 20
– Protection class (following EN 61140): III
– Overextension class (following EN 60664-1): III
– Bus: safety voltage SELV DC 24 V
– Fulfilled EN 50090 and EN 60664-1

EMC Requirements
– Fulfilled EN 50081-1, EN 50082-2, EN 50090-2.2

Conditions for use
– Following EN 50090-2.2
– Ambient temperature while operating: 0°C to 50°C
– Storage temperature: - 20 + 55 °C
– Humidity: max 90 %

Approvals
– KNX/EIB Certified

CE marking
– Conformed to the low voltage directives (Housing and Industrial construction)

Order code and Reader available colours

Light gray	TR22A01KNX
Anthracite	TR22A11KNX
White	TR22A21KNX

Glass plate support VTxxAx2ACC

Glass plate for product with support series TR.

Order codes and colours for glass plate support

Light gray	VTxxA02ACC
Anthracite	VTxxA12ACC
White	VTxxA22ACC

Note: fill in xx with the glass colour code.

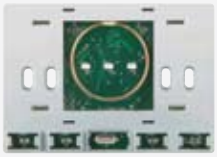
Transponder Reader TR22A plexiglass

The version of the Transponder Reader TR22A full colored with plexiglass plate, maintains the same technical features of the version to be completed on glass frame.

Order code Plexiglass Version

Plastic & Plexiglass Silver	TR22A09KNX
Plastic & Plexiglass Black	TR22A19KNX
Plastic & Plexiglass White	TR22A29KNX

Pocket Transponder TH22



The TH22AxxKNX pocket transponder is an EIB / KNX device fitted in rectangular boxes with 2 or 3 modules, and can be used for detecting and monitoring the presence of customers or service staff in a room. A range of colours is available for plastic housing, and glass finishes can be ordered separately, and it can be connected to all types of environments. The device has two physical ON / OFF inputs for controlling an open / close door contact or other signals (e.g. window contacts, bathroom alarm pulls, etc.). On the device there are two relays to control the door lock and to control the " courtesy lighting ", or for any other freely configurable use. The front of the transponder is illuminated if no light is available (for dark locations), goes out if the card is invalid, and flashes for 3 seconds if access is not allowed. Card validation is made by checking the following data: -"number system", if the code is coherent, it verifies the "date" field (if enabled) to verify validity (if this hasn't expired). It then checks the "password" with all the associated and enabled codes (time, customer number, service number). If all the conditions matched, then is possible to open the door and, if set, turns on the courtesy light and sends the result to the bus. Configuration via ETS.

KNX Software Functions

General configuration
– Configuration for the Timeout of light turned off, energy and active set at the moment of the extraction of the card form the pocket
– Enabling light for the pocket transponder illumination
– Enabling control of the expiring date
– Enabling control of the week days validity
– Enabling control of the hours
– Enabling sending alarm for signalling the reconnection of the power supply

Input configuration (1 and 2)
– Contacts and commutation scanning ON/OFF on the basis of the input signal fronts.
– Cyclic transmission of the contact state.

Configuration relay output 1
- Function “General Use” or control “Door opening”
- Normal function with contact normally open/locked
- Timed function (OFF timed, eg: for controlling the realising of the door lock)

Configuration relay output 2
- Function “General Use” or control “Courtesy light”
- Normal function with contact normally open/locked
- Timed function (OFF timed, eg: turning off the courtesy light after a while)

Technical Specifications

Weight and dimensions
- Weight: 120 gr. Dimensions: (H x W. x D.) 78 x 110 x 37 mm

Mounting
- Mounting: In a rectangular embedded box with 2 or 3 modules or in a round box Ø60mm, depth 40mm

Connection
- Line terminal Bus connecting bus, conductor max 0.8 mm^2
- Input and output screw clamps, conductor section max. 1,5 mm^2

Power supply
- From bus KNX 21..30 Vcc SELV
- Supplementary 12-24V AC/DC ± 10% , MAX 150mA

Input specification
- 2 type ON/OFF contact potential
- Max length of connection cable10mt
- Scanning voltage Un = 12V internally generated
- Scanning power In with locked contact = 1mA per channel

Output relay specification
- Number 2 with capacity of the contact relay: 24Vac 2 A AC1

Control elements
- 1 button for ETS programming

Warnings
- 1 red LED for ETS programming
- 1 blue LED inside the pocket housing

Electrical Safety
- Degree of protection (EN 60529): IP 20
- Protection class (following EN 61140): III
- Overextension class (following EN 60664-1): III
- Bus: safety voltage SELV DC 24 V
- Fulfilled EN 50090 and EN 60664-1

EMC Requirements
- Fulfilled EN 50081-1, EN 50082-2, EN 50090-2.2
- Conditions for use
- Following EN 50090-2.2
- Ambient temperature while operating: 0°C to 50°C
- Storage temperature: - 20 + 55 °C
- Humidity: max 90 %

Approvals
- KNX/EIB Certified

CE marking
- Conformed to the low voltage directives (Housing and Industrial construction)

Order codes and pocket colours

Light gray	TH22A01KNX
Anthracite	TH22A11KNX
White	TH22A21KNX

Glass plate support VTxxAx3ACC

Glass plate for products with support series TH.

Order codes and colours glass plate support

Light gray	VTxxA03ACC
Anthracite	VTxxA13ACC
White	VTxxA23ACC

Note: fill in xx with the glass colour code

Transponder Holder TH22A plexiglass

The version of the Transponder Holder TH22A full colored with plexiglass plate, maintains the same technical features of the version to be completed on glass frame.

Order code Plexiglass Version

Plastic & Plexiglass Silver	TM22A09KNX
Plastic & Plexiglass Black	TM22A19KNX
Plastic & Plexiglass White	TM22A29KNX

Plexiglass colour charts

Transponder Reader white
TR22A29KNX

Transponder Holder white
TH22A29KNX

Thermostat white
TM11A29KNX

Transponder Reader silver
TR22A09KNX

Transponder Holder silver
TH22A09KNX

Thermostat silver
TM11A09KNX

Transponder Reader black
TR22A19KNX

Transponder Holder black
TH22A19KNX

Thermostat black
TM11A19KNX

Temperature Probe white
TM11B29KNX

Temperature Probe silver
TM11B09KNX

Temperature Probe black
TM11B19KNX

Glass colour charts

Glass VT10 Signal White

Glass VT29 Green Water

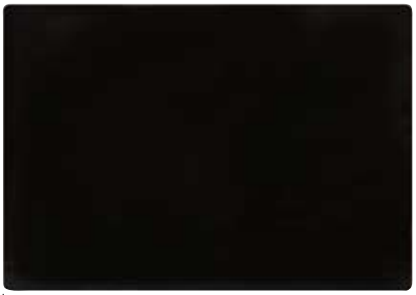
Glass VT12 Oyster White

Glass VT28 Light Blue

Glass VT17 Ruby Red

Glass VT22 Light Silver

Glass VT27 Violet



Glass VT15 Black

Glass VT23 Iron

Glass VT24 Gold

Transponder Card Programmer

The programming card is a transponder that reads / writes transponder cards or items. The device is fitted in a table container with 3 modules, and is equipped with a USB for the connection to a PC. It is back lighted for signalling transponder reading or writing. The reader / writer is powered up through the USB port of the PC, which must be provided with the appropriate software to allow the following read/write data: system code, password and date.

Operation

Transponder reading

– Transponder reading (already set) is made by putting the transponder in the pocket device: the data inside will be read and automatically transmitted to the PC.

Transponder programming

– Transponder programming is made by putting it in the pocket device (the card can be new or already written) and selecting from the PC SW the writing input. If after 30 seconds from the writing input no card has been put in the pocket device, then the programming has failed and to the PC is sent a message that says that the programmer is waiting for data.

Warnings

– during writing and reading the icon is normally turned off, it gets illuminated with a blue colour flashing for about 3 seconds to signalling the transponder programming phase, prolonged blue till the transponder is in the pocket, for signalling the correct reading or data writing on the transponder, it is turned off till the transponder is in the pocket for signalling that the transponder is not readable or writable.

Technical Specifications

Weight

– H x W x D: 87 x 142 x 107 mm

Mounting

– placed on desk

Connection

– USB type A connector
  Power
  From the PC's USB port: 5V - 150mA

Communication

– USB 1.1

Warnings

– 3 LEDs blue / cyan to indicate reading, writing and unreadable card

Electrical Safety

– Degree of protection (EN 60529): IP 20
– Degree of protection (following EN 50178): III

EMC Requirements

– Fulfilled EN 50081-1, EN 50082-2, EN 50090-2.2
– Terms of use
  According to EN 50090-2.2
  Ambient temperature while operating: 0 ° C to 50 ° C
  Storage temperature: - 20 + 55 ° C
  Operating Relative Humidity: 90% max
  Relative humidity of storage: 90% max

CE marking

– Conformed to the low voltage directives (Housing and Industrial construction)

Order Code

Card transponder programmer	TE00A01KNX

Neutral Card and Keychain Transponder

Technical Specifications

Dimensions and characteristics of the Card
- Complies with ISO 7810 (85.6 x 54 x 0.76 mm)
- Possibility of serigraphy on both sides (on request)
- Dual technology version (RFID and magnetic stripe on request)

Dimensions and characteristics of Key chains
- Dimensions and Material: ABS 38 x 34 x 6 mm
- Frequency: 125KHz-
- Operational temperature: -10 ° C to 50 ° C

Order Code

Transponder card neutral	CD00A01TRC
Keychain transponder	CD00B01TRC

eHotel

eAccess

Software

dedicated to supervision of KNX devices, for hotel management and the control of access, utilities and alarms.

eHotel

The eHotel software range is dedicated to hotel management in facilities with devices based on KNX standards and can be interfaced to the hardware and software of other management systems. All products in the range can be interfaced with key management tools dedicated to administrative functions. In addition to common functions in hotel access control (check in, check out, room management, transits and profiles), the eHotel range allows supervision of facilities in the broadest sense, including management of lighting, temperature control, alarms, timing, management of groups of devices and the control of technological devices. The software is Client-Server based, run remotely via the Internet or via Ethernet, and each version can be updated on-line using the update function. User recognition takes place through a hardware key, which can be switched from a high level down to simple unlock code. Interface graphics are fully customizable, so you can display your own logo on the main screen, and define the user interface colors and display scheme.

Technical Specifications

Available languages:
- Italian, English, German, French, Spanish

Controlled functions:
- Generation and identification of cards
- Check In / Check Out
- Notification and management of room service
- Viewing by camera (customer camera, services, sos, etc..)
- Displaying access zones
- Blocking access to areas
- Management Services and Privileges (creating cards with services certifications)
- Utilities diversification (users, service personnel, etc.).
- Temperature Monitoring
- Lighting Supervision
- Entry/Exit Supervision
- Alarms Supervision
- Log temperatures, lights, alarms and transits in real-time
- Export log data in xls, doc or csv format
- Program events
- Search and sort functions
- Import EIB parameters directly from ETS
- Block access to areas
- Automatic data back-up

Ability to interface with management systems:
- Updated list available on request

eHotel Standard

Software for managing hotels, for supervising KNX environments and for the control of accesses and alarms. Interfaces with management and other software.

Technical Specifications

Rooms managed	75
Common rooms managed	2
Workstations enabled simultaneously via Internet or Ethernet	0
Profiling supervisory privileges	2
Connection to bus: USB interface / KNX; RS232/KNX; IP / KNX	

eHotel Professional

Software for managing hotels, for supervising KNX environments and for the control of accesses and alarms. Interfaces with management and other software. Remote management via own Internet or Ethernet (SW00A04KNX).

Technical Specifications

Rooms managed	150
Common rooms managed	infinite
Workstations enabled simultaneously via Client Internet or Ethernet	5
Profiling supervisory privileges	5
Function for KNX events timing	available
Generating KNX group objects (digital or analog)	available
Auto import of KNX parameters from ETS	available
Automatic back up of data	available
Filters to search log events	available
Export data in CSV / XLS / Doc files	available
Connection to bus: USB interface / KNX; RS232/KNX; IP / KNX	

eHotel Advanced

Software per la gestione di hotel, per la supervisione di ambienti KNX e per il controllo accessi ed allarmi; Interfacciabile con software software. Gestione remota via Client Internet o Ethernet (cod. SW00A04-KNX).

Technical Specifications

Rooms managed	infinite
Common rooms managed	infinite
Workstations enabled simultaneously via Client Internet or Ethernet	infinite
Profiling supervisory privileges	7
Function for KNX events timing	available
Generating KNX group objects (digital or analog)	available
Auto import of KNX parameters from ETS	available
Automatic back up of data	available
Filters to search log events	available
Export data in CSV / XLS / Doc files	available
Connection to bus: USB interface / KNX; RS232/KNX; IP / KNX	

eHotel Client

Client software for remote or duplicate workstations based on eHotel Server (Professional or Advanced), Connection via Internet or Ethernet, to be purchased together with the Server package

Technical Specifications

Settings derived automatically from the package Server installed	
Connection to the bus: via network connection with server	

Order Code

eHotel Standard	SW00A01KNX
eHotel Professional	SW00A02KNX
eHotel Advanced	SW00A03KNX
eHotel Client	SW00A04KNX

eAccess

The software range eAccess is dedicated to the management of access control for facilities with KNX standards-based devices. In addition to common access control functions (transportation management and privileges, management zones and alarms, etc..), the eAccess range allows the device supervision in the broadest sense, including lighting management, temperature control, timing, management of groups of devices and the control of technological systems, all within a highly customizable graphics environment. The Software is Client-Server based, accessed remotely via the Internet or Ethernet. Each version can be updated on-line by using the update function. User recognition is made by a hardware key, which can be switched from a high level down to a simple unlocking code.

Technical Specifications

Languages available:
- Italian, English, German, French, Spanish

Controlled functions:
- Generation and identification of cards
- Access displayed
- Block access to areas
- Management of services and privileges (creation of cards / certifications / services)
- Utilities (users, service personnel, etc.).
- Temperature Monitoring
- Lighting Supervision
- Supervision of Inputs / Outputs
- Alarm Supervision
- Log temperatures, lights, alarms and transits in real-time
- Export log data in XLS, DOC or CSV format
- Pre-program events
- Search and sorting functions
- Import EIB parameters directly from ETS
- Block access to areas
- Automatic data backup

eAccess Standard

Software for supervision of KNX environments and for controlling access and alarms; Interfaces with management and other software.

Technical Specifications

Manages	50 zone
Workstations enabled via Client Internet or Ethernet	0
Profiling supervisory privileges	2
Connection to bus: USB interface / KNX; RS232/KNX; IP / KNX	

eAccess Advanced

Software for supervision of KNX environments and for controlling access and alarms; Interfaces with management and other software. Remote management via Client Internet or Ethernet (SW00B03KNX).

Technical Specifications

Zones managed	infinite
Workstations enabled simultaneously via Client Internet or Ethernet	infinite
Profiling supervisory privileges	7
Uses functions for KNX timing events	available
Generating KNX group objects (digital or analog)	available
Auto import of KNX parameters from ETS	available
Automatic back up of data	available
Use filters to search log events	available
Export data in CSV / XLS / Doc files	available
Connection to bus: USB interface / KNX; RS232/KNX; IP / KNX	

eAccess Client

Client Software for remote or duplicate workstations based on eAccess Server software (Professional or Advanced); Connection via Internet or Ethernet, to be purchased together with the server package.

Technical Specifications

Settings derived automatically from the package Server installed
Connection to the bus: via network connection with server

Order Code

eAccess Standard	SW00B01KNX
eAccess Advanced	SW00B02KNX
eAccess Client	SW00B03KNX

4,3” Touch panel Kairos

The touch panel Kairos 4,3“ is the smallest model in the series but certainly also the most technologically advanced. Featuring a slim and minimal design and the ability to have complete oversight KNX in a space equivalent to 68mm x 40mm with a junction boxes installed in the classic 504. It also comes with integrated KNX BCU, so it can be directly connected to the KNX bus with the standard connector Wago. Kairos 7 comes with an application dedicated to the supervision referred ERGOCE, able to run graphical environments created with the help of the CIW Path.

Plate available in several colors.

Specifications

- Dimensions
- Dimensions: (H x W.) 148mm x 88mm

Mounting
- Recessed box on standard Italian 504

Power
- 12V DC - Power Consumption 10 W

Exterior doors
- USB device
- Internal serial TTL

Connections
- Connector Screw 2 Pole

Control elements
- 4-wire resistive touch screen

Screen
- 4.3 inch / inch, Resolution 480x272 pixels, Width / Height 16:9

Processor
- ARM 520MHz

Memory
- 128MB SDRAM - 32MB flash (hard drive)

OS
- Windows CE 5.0

CE Marking
- According to EC Directive (residential and industrial areas), Low Voltage Directive

Order Code

Touch panel 4,3”	VS00B01KNX

7” Touch panel Kairos

The model 7” inches has a display with a great quality of image due to his high resolution of 800 x 400 pixels in size.
At the touch panel were also integrated management capabilities for up to 3 analog cameras and a remote intercom line.
The device, in addition to the plates, is available in different colours and is also designed to be installed vertically while maintaining a simple design but an high impact. It also comes with integrated KNX BCU, so it can be directly connected to the KNX bus with the standard connector Wago. Kairos 10 is provided with the application dedicated to the supervision referred ERGOCE, able to run graphical environments created with the help of the CIW Path.

Plate available in several colors.

Specifications

Dimensions
- Dimensions: (H x W) 246mm x 148mm

Mounting
- Recessed box on Vimar mod. 16895

Power
- 12V DC - Power Consumption 10 W

Exterior doors
- USB host
- USB device
- SD Card
- RS232 - RS485

Connections
- Connector Screw 2 Pole
- Integrated KNX BCU: 2 bus connection terminals, conductor Ø max 0.8 mm2
- Video Inputs: 3 inputs (1 Vpp) PAL
- 1 Audio Input: Line in / Line out

Control elements
- 4-wire resistive touch screen

Screen
- 7 inch / inch
- Resolution 800x480 pixels - - Width / Altez. 16:9 - Color Depth 16bit

Processor
- ARM 520MHz

Memory
- 128MB SDRAM / 32MB Flash (internal disk)

Audio
- Integrated speaker and microphone for handsfree

OS
- Windows CE.5.0

CE Marking
- According to EC Directive (residential and industrial areas), Low Voltage Directive

Order Code

Touch panel 7”	VS00B02KNX

10” Touch panel Kairos

It is the most complete device thanks to an integration with the network gateway for making available the functionality with remote devices using the TCP / IP. At the touch panel management features have been integrated up to 3 analog cameras and a remote intercom line, so along with the universal remote Ethos, leading to the intercom handset. This model also has 4 function keys to assign frequently used commands and comes with integrated BCU Konnex be directly connected to the KNX bus with the Wago connector standard. Kairos 10 is provided with the application dedicated to the supervision referred ERGOCE, able to run graphical environments created with the help of the CIW Path.

Plates available in different colors

Specifications

Dimensions
- Dimensions: (H x larg.) 300mm x 220mm

Mounting
- Recessed Box Vimar mod. V71321

Power
- 12V DC - Power Consumption 10 W

Exterior doors
- USB host
- USB device
- SD card
- RS232 / RS485

Connections
- Connector Screw 2 Pole
- Integrated KNX BCU: 2 bus connection terminals, conductor Ø max 0.8 mm2
- Video Inputs: 3 inputs (1 Vpp) PAL
- Audio Input: Line In / Line Out

Control elements
- 4-wire resistive touch screen

Screen
- 10.2 inch / inch - resolution 800x480 pixels - Width / Altez. 16:9 - Prof. 16bit color

Processor
- ARM 520MHz

Memory
- 128MB SDRAM - 32MB flash (hard drive)

Audio
- Integrated speaker and microphone for handsfree

OS
- Windows CE. 5.0

CE Marking
- According to EC Directive (residential and industrial areas), Low Voltage Directive

Order Code

Touch panel 10”	VS00B03KNX

10.4” Mithos Console Touch Panel

Mithos is a table container console that’s ideal for check everywhere with their comfort plant. It’s designed to be installed in meeting rooms, reception areas and halls for the elegance of its design. Available in various colours and with intuitive operation via its touch screen technology. Mithos allows management operations through the Ethernet / WiFi with the Theo Touch Screen serving as an access gateway. Operation requires only one power cord. The touch panel has a diagonal screen size of 10.4 inches and a graphics resolution of 800 x 480 pixels.

Technical Specifications

Mounting
– placed on desk
Power
– 12 Vdc
External ports
– USB device for communication with PC
– USB host for standard accessories
– CF Slot
– Audio out
Connections
– Power: 5mm Jack
– 3 RS232 serial ports
– Ethernet 100Mb
Control elements
– Resistive touch screen
Screen
– 10,4 inches 64K colours, 800 x 480 pixel resolution
Processor
– Xscale PX270 - 520MHz
Memory
– 32MB Flash / 128MB SDRAM
Operating System
– Windows CE.NET 5.0
CE marking
– Conformed to the CE directives (Housing and Industrial construction), low voltage directives

Codice di ordinazione

Touch panel Mithos console 10,4”	VS004A08KNX

4.3” Ethos Wireless Touch Panel

This 4.3” wireless touch panel is a universal handheld remote, capable of controlling all the automated home applications. Along with traditional functions like controlling infrared appliances such as TVs, the device futures the ability to control KNX devices with the ability to communicate with videophones. Thanks to its coloured screen, which has a touch screen mode, you can fully customize every function, and use your own images and control to achieve the ergonomic design you require. It has a stereo headphones output to be used as a media player for movies and MP3s, and content can be easily uploaded with common pen drive, using the USB port. The autonomy of the product is guaranteed in stand-by mode for at least a week by its 2000mAh long life battery, and for the most demanding uses, it can be recharged when required without having to switch off the device. Ethos has a stylish design, and is impact-resistant.

Technical Specifications

Weight and Dimensions
– 200 gr. without battery (H x W x D) 87 x 183 x 30 mm
Battery
– 3.7V lithium polymer 2000mAh
External power
– 5V DC 500mA
Wireless support
– IR infrared interface
– WiFi (802.11 b/g)
– Bluetooth
– Zigbee (802.15.4)
External ports
– USB device for the communication with PC
– USB host for standard accessories
– SD Slot
Connections
– Power: 5mm Jack
– 3,5mm audio jack for stereo headphones
Control elements
– Resistive touch screen
– 3 programmable function keys
Screen
– 4,3” (16:9), 64K colours, resolution 480x272
Processor
– Xscale PX270 - 520MHz
Memory
– 32MB Flash / 128MB SDRAM
– Audio
– Integrated speaker and microphone for hands-free operation
Operating System and software
– Windows CE.NET 5.0
– Supervision path Konnex
– Windows Media Player and Internet Explorer
CE marking
– Conformed to EC Directives (Housing and Industrial)

Codice di ordinazione

Touch panel 4,3”	VS00A03KNX

EIB / KNX Bus Cable

NOTE: The following specifications refer to Type 2 x 2 x 0.8

It is used for installation in “smart” building applications. Guarantees perfect communication in accordance with specifications established by EIB / KNX, and is suitable for applications with fixed wiring inside channels and under plaster.

Structural characteristics

- Inner conductor: solid copper red
- Formation: 1x0,80 mm
- Diameter: 0,80mm +-1%
- Dielectric : Low Smoke Zero Halogen fire retardant compound (LSZH-FRNC)
- Classified: CEI 20-11 M1
- Thickness: 0.30 mm
- Diameter: 1.40 mm + -10
- Colours: White, Red, Black, Yellow
- Separator Agent: polyester tape
- Continuity wire: tinned solid copper
- Diameter: 0.40 mm + -1%
- creen: Aluminium-Polyester
- Coverage: (kf) > = 120%
- Outer sheath : Low Smoke Zero Halogen fire retardant compound (LSZH-FRNC)
- Classified: CEI 20-11 M1
- Consistent: IEC 60332-1, IEC 61034-1, IEC 61034-2, IEC 60754-1, IEC 60754-2
  Hardness: 50 + - 2 Shore D
- Thickness: 1.25 mm
- Diameter: 6.10 + - 0.20
- Colour: Green (RAL 6018)
- Electrical characteristics
- Test voltage between cores : 1000 V
- Inner conductor DC Resistance at 20 ° C: 34.60 Ohm / Km
- Characteristic impedance: 100 + -15 Ohm
- Capacity between cores: 81.0 pF / m
- Capacity between cores and shield: 161.0 pF / m
- Mechanical
- Operating Temperature: -10 ° C +70 ° C
- Minimum bending radius: 10 x cable diameter (mm)
- Maximum tensile load: 50 N/mm^2
- Approximate Weight: 50 Kg / Km

Order codes

Double-bus cable 2x2x0, 8 coils 100mt	CV00A02KNX
Double-bus cable 2x2x0, 8 coils 500mt	CV05A02KNX
Double-bus cable 2x2x0, 8 coils 1000mt	CV10A02KNX
Single bus cable 1x2x0, 8 coils 100mt	CV00A01KNX
Single bus cable 1x2x0, 8 coils 500mt	CV05A01KNX
Single bus cable 1x2x0, 8 coils 1000mt	CV10A01KNX

Swiss Adapter Box

Adapter for recessed Swiss wall boxes with codes TM11A / B, TH22A, TR22A.

Technical data

- Material: Polycarbonate
- Dimensions: 78X110 mm

Codici di ordinazione

Light Gray Painted	AD00A00ACC
Anthracite	AD00A10ACC
White	AD00A20ACC

Bus Connector Red / Black

Bus Connector Red / Black for EIB / KNX applications, with direct plug connection. Can connect up to 4 pairs of conductors to a KNX device, it can also be used as an extension terminal.

Technical data

- Cable section from 22 to 18 AWG (0,6 - 1 mm)
- Voltage detected EN 100V
- Rated current 6A
- Flush stripping length from 5 to 6 mm
- Weight 1.6 gr
- Dimensions H x W x D: 11,5 x 10 x 10 mm

Order codes

Wago Connector red/black package 10 Pieces	WG00A00ACC
Wago Connector red/black package 100 Pieces	WG00A01ACC
Wago Connector red/black package 500 Pieces	WG00A02ACC

All particulars, details, and technical or functional characteristics given in this catalogue are subject to change without notice. Colours are only approximate. Despite the controls we have regarding the content of this document relating to the characteristics of hardware and software products, we cannot completely rule out differences. Eelectron it is considered exempt from any liability in relation to the use of the information given. Any necessary correction will be included in new versions of the manual. This catalogue can be freely downloaded from: www.eelectron.com .

23.4°C
OFF

THE KNX STANDARD

The EIB / KNX technology standard is now the most widely used in the field of control for buildings with service and residential uses, and covers more than 10,000 devices produced by some 130 leading manufacturers in electronics / devices, and more than 12 million nodes installed worldwide.

KNX is approved by:

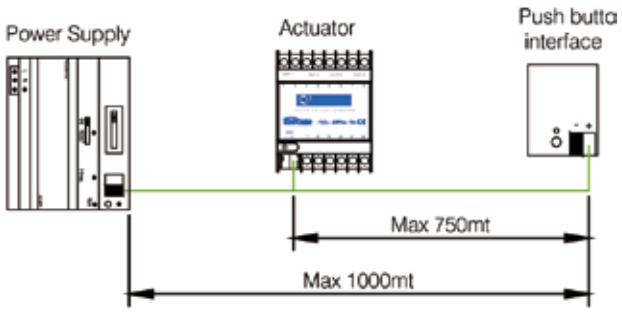
- European Standard (CENELEC EN 50090, CEN EN CEN 13321-1 and EN 1332-2 “KNXnet / IP”)
- International Standard (ISO / IEC 14543-3)
- Chinese Standard (GB / Z 20965)
  U.S. Standard (ANSI / ASHRAE 135)

For more information see the Konnex website at: www.konnex.org

Bus line extension

The structure of a KNX installation comprises areas, lines and devices. Each line consists of a power supply that provides voltage (SELV 29V), and a maximum of 64 devices connected in any installation topology. More bus lines can communicate with each other through “Line / Area Couplers”. To achieve coupling between 15 lines, you need to create an Area composed of a total of 960 devices: this can be coupled to a maximum of 15 other Areas.

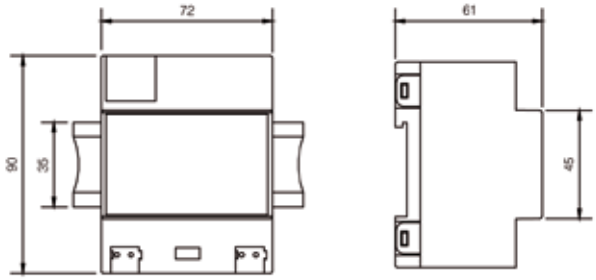
A bus line can have a maximum length of 1,000m (considered as the sum of all segments in the line), and the maximum distance between the adapter and the farthest device or between two devices is 750 m.



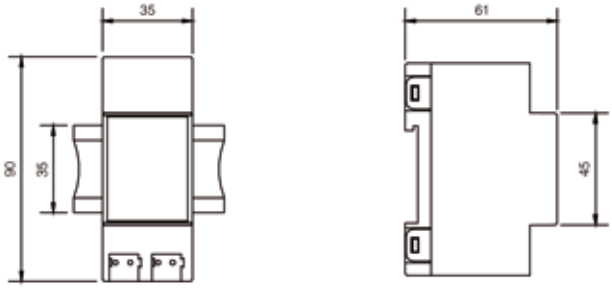
TECHNICAL CHARACTERISTICS OF THE SYSTEM

System Data	
Bus cable	
Cable type	YCYM cable 2 x 2 x 0.8 mm². A pair of conductors (red, black) for signal transmission and power A pair of conductors (yellow, white) for additional applications (SELV) YCYM 1 x 2 x 0.8 mm² A pair of conductors (red, black) for signal transmission and power
Cable provision	Received, on the surface, projecting
Length of a line (conductor diameter: 0.8 mm)	max 1000m (including all derivations)
Distance between two bus devices	max 700m
Distance between a bus and power (320 mA) with integrated coil	max 350 m
Bus appliances	
Number of Areas	15 max
Number of lines per Area	15 max
Number of bus devices per line	64 max
Topology	Spin, star, tree configurations
Power	
System voltage	29 V DC (safety voltage SELV)
Power feed line	1 power supply (160, 320 or 640mA) with integrated coil decoupling
Power line in case of high demand for current	2 power supplies (max) at a minimum distance of 200 m
Transmission	
Transmission technique	Decentralized, event-driven, serial, symmetric
Speed	9600 bit / s

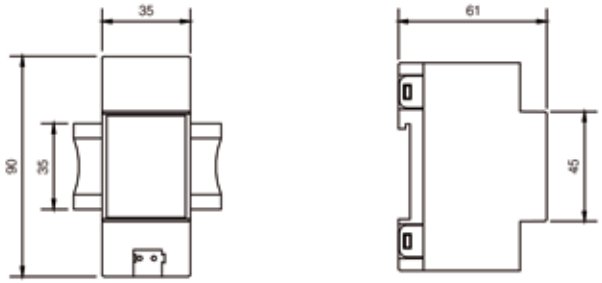
Alimentatore BUS 160mA /320mA / 640mA



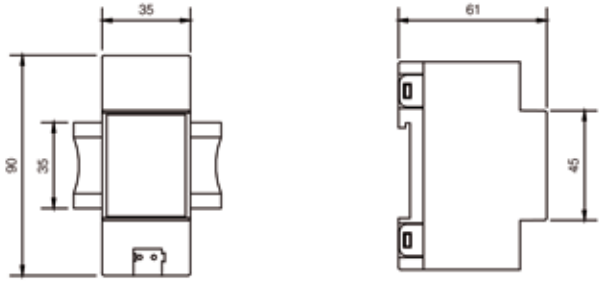
Line Coupler / Area KNX



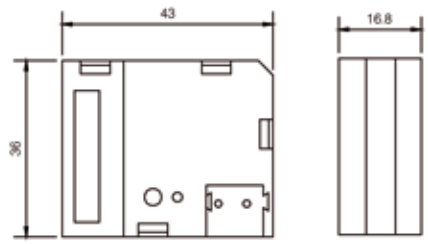
KNX/USB interface bus



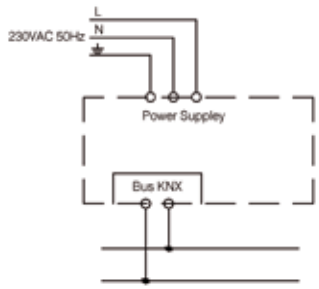
Bus Interface KNX / IP Router



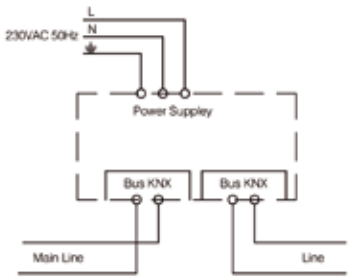
Push button interface



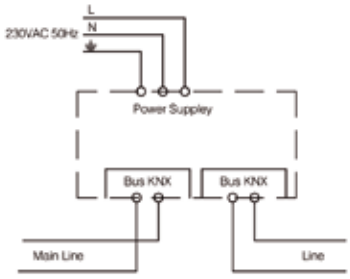
PS00A01KNX / PS00A02KNX / PS00A3KNX



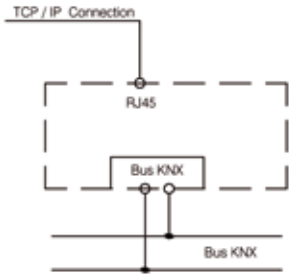
PS00A05KNX



IN00A01USB



IN00A01RIP



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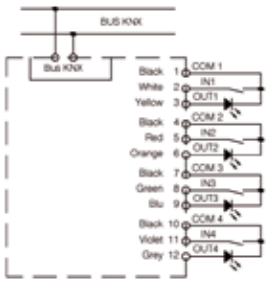
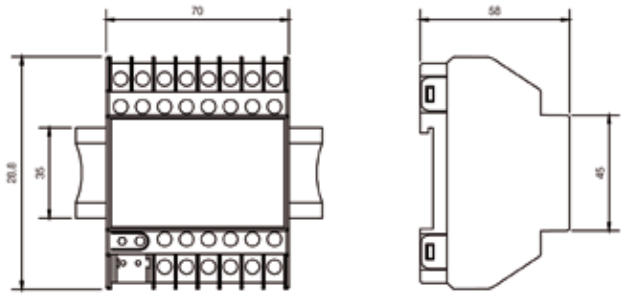
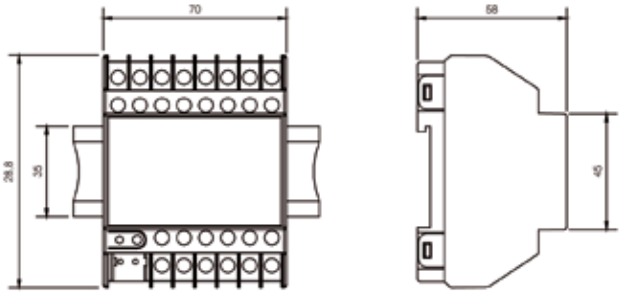


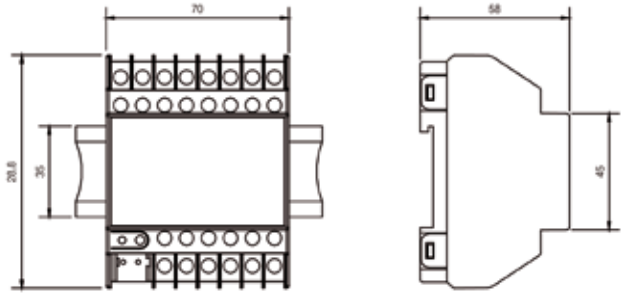
Combined module 4In 4Out



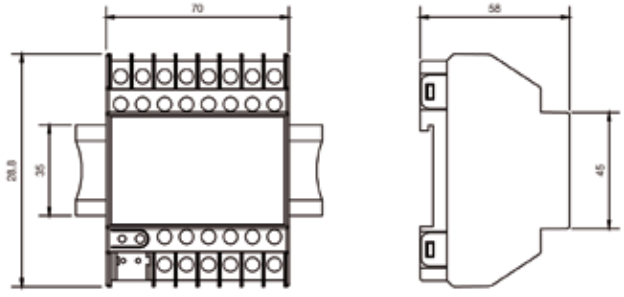
Combined 4IN - 4OUT Universal Module



Combined 8IN - 8OUT Universal Module



Combined 4 IN-2 OUT Module Shutters



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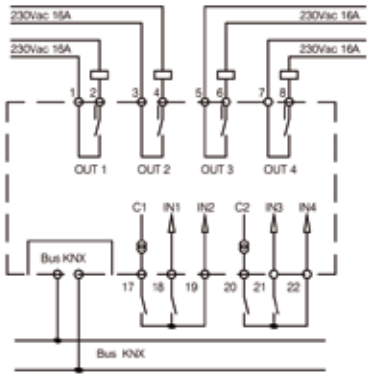

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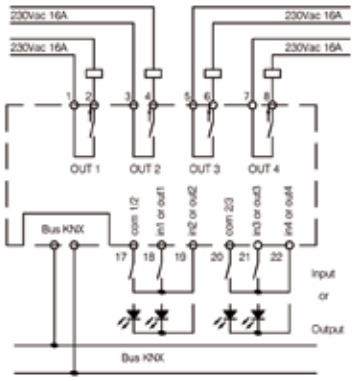
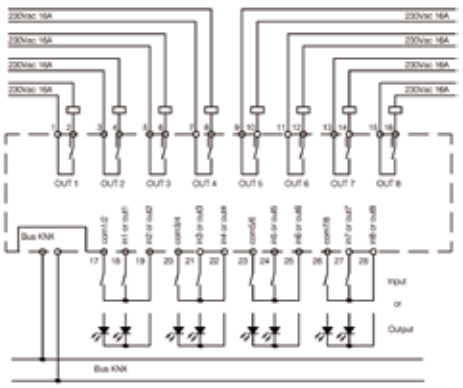
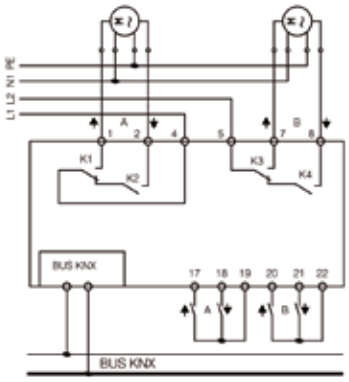


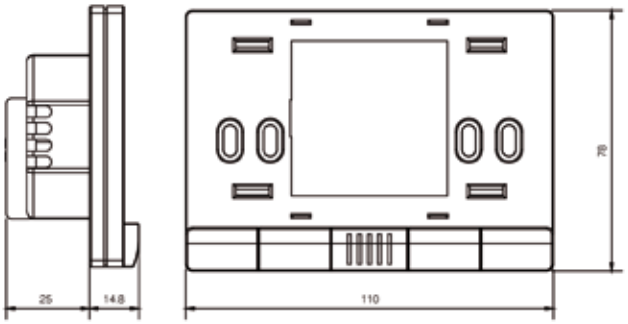
IO88B01KNX



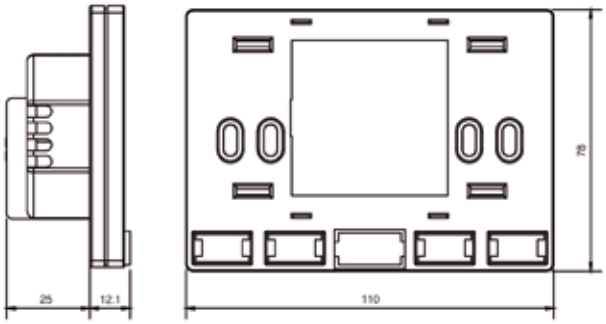
SH42A01KNX



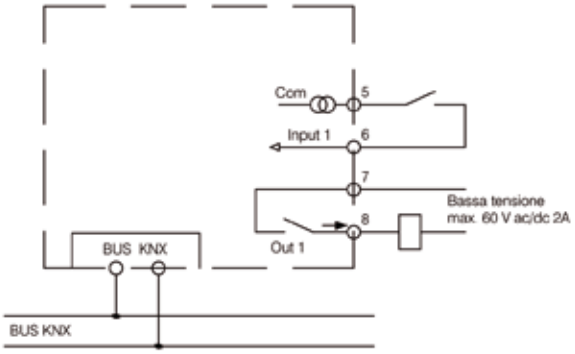
Thermostat and Temperature Probe



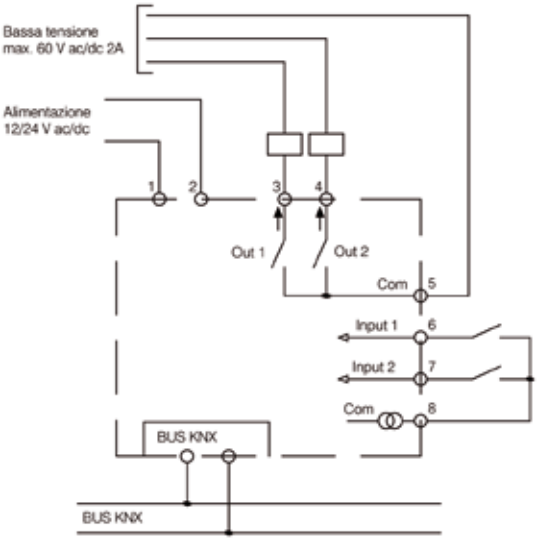
Transponder Reader and Trasponder Holder



TM11A01KNX - TM11A11KNX - TM11A21KNX / TM11B01KNX - TM11B11KNX - TM11B21KNX



TR22A01KNX - TR22A11KNX - TR22A21KNX / TH22A01KNX - TH22A11KNX - TH22A21KNX



See our sales network here
www.eelectron.com

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