Master Pro Evo

Features

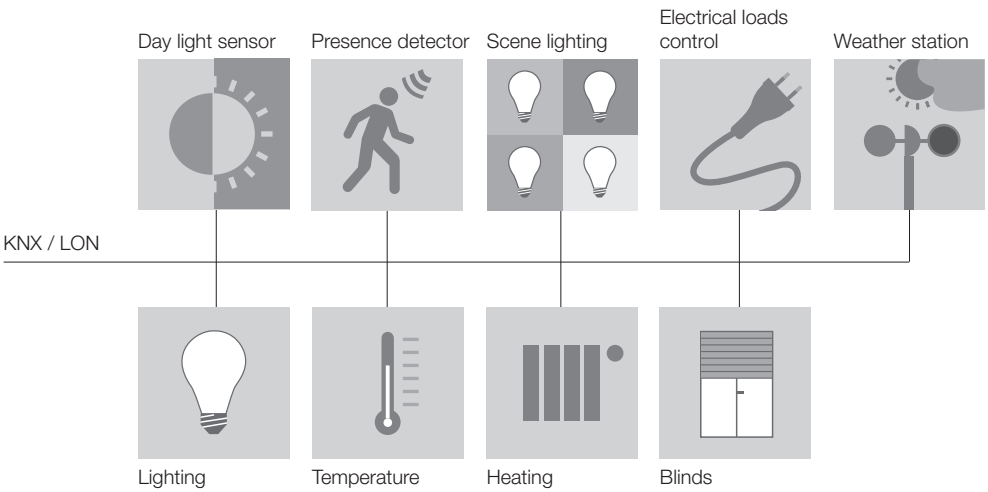
This innovative «intelligent» control system, based on KNX, LON and DALI technology, allows all the functions in a building that are usually controlled separately, to be managed via a centralised system.
Master Pro Evo offers flexible solutions for all kinds of application; solutions that guarantee comfort, safety and maximum energy savings.

Customised projects
iGuzzini's team of technicians and designers are always ready to ensure an optimal configuration of the Master Pro Evo system. Every project is designed taking into acount the customer's specific requirements.

KNX LON DALI

Centralized control

Adopting simple programmable logic controllers in a traditional system can guarantee users optimal comfort. Today, thanks to the KNX / LON systems, highly adaptable solutions can be designed that cover all applications, from the simplest to the most complicated service industry system. User-friendly installation, less cables, and a range of services including scene lighting, fault indications, and local and remote control systems, now combine to offer real added value solutions.



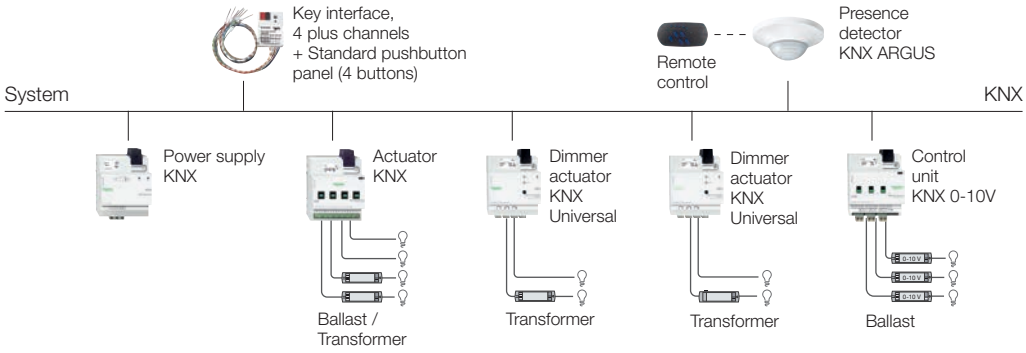
Conference halls

Automatic scene lighting control commands

Depending on the functions and uses required, customised lighting scenarios can be created in various areas of the building: meeting rooms, coporate welcome areas, offices, etc.

Benefits

- 10% less electrical energy used compared to a traditional system for a room of a similar size.
- More comfort for users and a more pleasant atmosphere in the room.
- Maximum design flexibility
- Manual, automatic and remote adjustment options via an IR receiver.
- Easy maintenance.



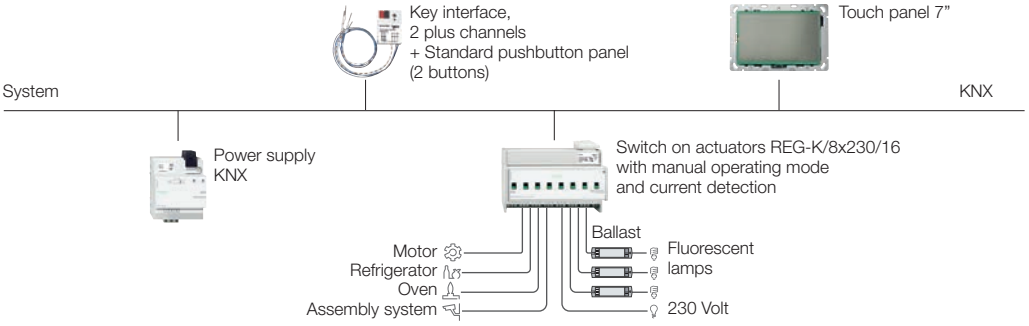
Showroom

KnX switch on actuators connected to a load monitoring touch panel

Monitoring electrical loads after store closures, such as lighting systems, surveillance cameras and other kinds of devices, help avoid unnecessary energy waste. This configuration also allows lighting systems to be programmed during the night.

Benefits

- Monitoring consumption and identifying potential waste can result in savings of over 10%.
- Superior safety levels thanks to automatic alarms and emergency calls.
- Superior flexibility and a user-friendly design.



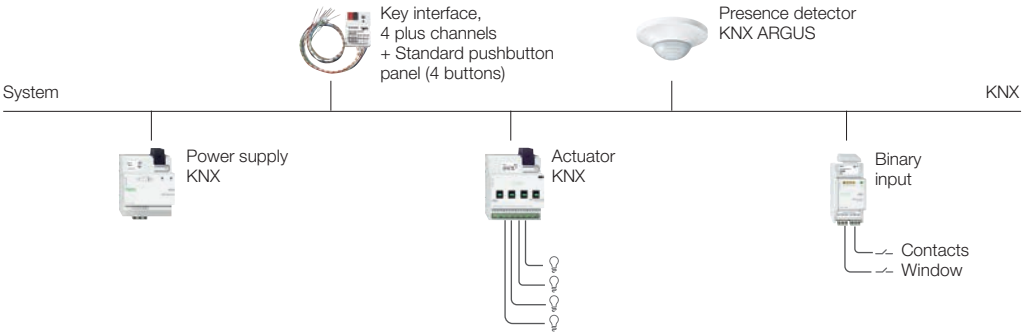
Offices

Presence detectors and light sensors

Automatic lighting and heating monitoring for the various offices is obtained through the interaction of sensors and actuators that eliminate manual intervention and offer increased safety, energy efficiency and comfort.

Benefits

- Automatated room monitoring reduces energy consumption by 35%.
- Higher safety levels thanks to alarms and automated emergency calls.
- Faster installation times
- Easy maintenance



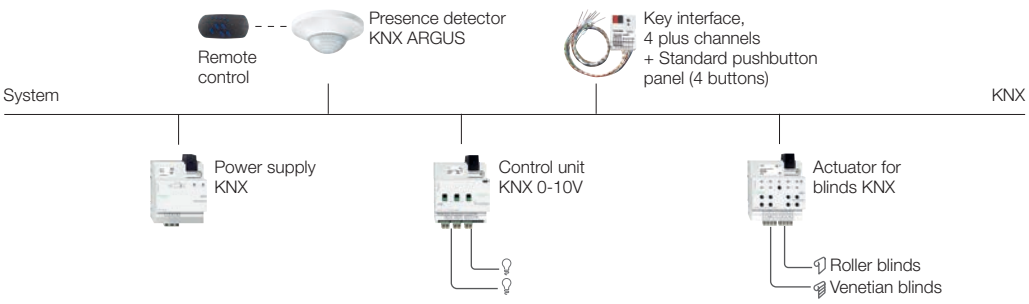
Polyfunctional centres

Presence detectors, light sensors and actuators for controlling blinds.

The combination of various checking systems allows lighting to be controlled automatically and blinds to be regulated according to how the rooms are used, what their position is and the level of natural light.

Benefits

- The chance to save up to 50%.
- Higher safety levels and savings thanks to alarms and automated emergency calls.
- Remote control and monitoring system.
- Easy maintenance.
- Greater flexibility and easier to install.



Master Pro Evo
KNX protocol

System Components

code colour

KNX REG-K/320 mA power supply

MH93 00

A module adapted to generate the bus voltage required to power a line of devices. Current: 320 mA

KNX REG-K/640 mA power supply

MI56 00

A module adapted to generate the bus voltage required to power a line of devices. Current: 640 mA

REG-K coupler

MH94 00

For the logic connection and isolating lines and areas electrically.

code colour

REG, 24 V CC / 0,4 A< power supply

MI57 00

Device with integrated overload or short circuit protection fitted on the DIN EN5022 guide and adapted to provide an auxiliary power supply to the KNX components.

Infrared remote contol
Distance 2010

MH95 04

10 channel infrared remote contol

Interfaces / Gateways

code colour

USB REG-K interface

MH96 00

For connecting a programming or diagnostic device to the bus line via a USB1.1 or USB2 interface.

KNX DALI REG-K/1/16(64)/64 Gateway

MH97 00

The DALI gateway connects the KNX protocol to the DALI interface digital electronic devices. Up to 64 reactors can be commanded and adjusted by dividing them into 16 units.

WIFI connection system for APPLE systems

MI34 00

The miniserver simplifies “interaction” with Apple devices: iPad and iPhone.
It can control up to 300 devices and 50 areas (spaces).

code colour

KNX/IP REG-K router

MH98 00

The KNX/IP routers can also forward telegrams between lines using the LAN (IP) as a rapid backbone.

KNX-DMX gateway

MI28 00

The DMX gateway connects the KNX protocol to the DMX RDM interface digital electronic devices. Enabling up to 512 reactors to be controlled and regulated.

Inputs / Binaries

code colour

Key interface, 2 plus channels

MI02 00

This generates an internal signal voltage that connects two conventional buttons or floating contacts as well as connecting two low current LEDs.

Key interface, 4 plus channels

MI03 00

This generates an internal signal voltage that connects four conventional buttons or floating contacts as well as connecting four low current LEDs.

REG-K/4x10 binary input

MI04 00

For connecting four conventional buttons or potentialfree contacts. It generates an SELV signal voltage internally that is electrically isolated by the bus.

REG-K/8x10 binary input

MI05 00

For connecting eight conventional buttons or potentialfree contacts. It generates an SELV signal voltage internally that is electrically isolated by the bus.

code colour

REG-K/4x24 binary input

MI06 00

For connecting four inputs with a voltage of 24 V AC/DC. With an integrated bus coupler and life-connected terminals.

REG-K/8x24 binary input

MI07 00

For connecting eight inputs with a voltage of 24 V AC/DC.

REG-K/4x230 binary input

MI08 00

For connecting four inputs with a voltage of 230 V AC. With an integrated bus coupler and life-connected terminals.

REG-K/8x230 binary input

MI09 00

For connecting eight inputs with a voltage of 230 V AC. With an integrated bus coupler and life-connected terminals.

Time / timer programmer

code colour

REG-K/4/324 DCF-77 annual timer

MI16 00

Annual four-channel timer with a power feed unit and integrated DCF receiver. To be integrated with the DCF-77 antenna for radiocontrolled timing synchronisation. Time and date view option on the bus. The device can be programmed manually or via a PC with the appropriate software.

code colour

DCF-77 antenna

MI17 00

Antenna for receiving the time via a time signal. The antenna can be connected to an annual programmer REG-K/4/324 DCF-77.

Movement / presence detectors

code colour

KNX ARGUS Presence Basic

MI10 01

Presence detector for interiors

KNX ARGUS Presence with light command and infrared receiver

MI11 01

Presence detector for interiors.
Thanks to the infrared receiver, the individual ARGUS Presence configurations can be changed via remote control.

Ceiling assembly base for ARGUS Presence

MI12 01

code colour

Recessed KNX ARGUS 180/2.20 m

MI58 01

Movement detector for interiors with anti-scratch cover.

Frame for recessed presence sensor KNX Argus 180/2.20 m

MM30 01

Recessed mounting base for ARGUS Presence

ML15 16

Light sensors / Weather stations

code colour

KNX light and temperature sensor

MI13 00

The sensor registers the light and temperature and transmits them to the bus. It is fitted with a temperature and a light sensor. Adapted for outer wall assembly.

REG-K weather station with 4 channels

MI14 00

The weather station registers and processes analog sensor signals indicating wind speed, light, dusk, rainfall and a DCF-77 signal. It can be fitted to any combination of up to four analog sensors plus the combined DCF-77 weather sensor.

code colour

Combined weather sensor with DCF-77

MI15 04

The combined weather sensor includes a wind sensor, a rainfall sensor, a dusk sensor and three light sensors (east, south and west). Plus an integrated DCF-77 receiver, a 45° adjustable antenna and integrated heating.

Switch actuators

code colour

FM KNX 16 A actuator with 2 inputs

MI18 00

A 1-channel actuator with two inputs for assembly in a 60 mm recessed case or in a ceiling-mounted socket with coupling. The two floating contacts can be connected to two inputs.

Switch actuator REG-K/2x230/16
with manual mode option and current detector

MI19 00

For controlling two electric loads independently.
The actuator is fitted with a built-in current detector that can measure current absorption on each channel.
All the outputs can be commanded using manual switches.

code colour

Switch actuator REG-K/4x230/16
with manual mode option and current detector

MI20 00

For controlling four electric loads independently.
The actuator is fitted with a built-in current detector that can measure the load current on each channel.
All the outputs can be commanded using manual switches.

Switch / blind actuators

code colour

Switch actuator REG-K/8x230/16
with manual mode option and current detector

MI21 00

For controlling eight electric loads independently.
The actuator is fitted with a built-in current detector that can measure the load current on each channel.
All the outputs can be commanded using manual switches.

Switch actuator REG-K/12x230/16
with manual mode option and current detector

MI22 00

For controlling twelve electric loads independently.
The actuator is fitted with a built-in current detector hat can measure the load current on each channel.
All the outputs can be commanded using manual switches.

code colour

REG-K/8x/16x/10 switch/blind actuator
with manual mode option

MI23 00

For controlling eight blind/shutter motors independently or for switching sixteen loads via closure contacts.
The blind or switch channel function can be configured as required. All the blind/switch outputs can be commanded manually using the buttons on the front of the device.

REG-K/4x24/6 blind actuator
with manual mode option

MI24 00

For controlling four blind/shutter motors independently.
The blind channel function can be configured as required.
All the blind outputs can be commanded manually using the buttons on the front of the device.

Dimmer

code colour

Dimmer actuator REG-K/2x230/300W

MI25 00

For controlling and adjusting incandescent lamps and electronic transformers.

Universal dimmer actuator REG-K/2x230/1000W

MI26 00

For controlling and adjusting incandescent lamps and HV and LV halogen lamps using bobbin wound transformers or electronic dimmer devices.

code colour

0-10 V REG-K 3-pole control unit with manual mode option

MI27 00

For connecting devices with a 0-10 V KNX systems interface. With an integrated bus coupler and life terminals (230 V) or life-connected terminals (0-10 V). Each individual 230 V switch output can be controlled manually with a switch.

Display and control panels

code colour

Touch panel 7”

MI33 00

The 7” touch panel is used to view and check the building’s current functions and states.

Internal framework set for 7” touch panel

MI29 01

The set includes an internal support frame and USB cover.

Aluminium frame for 7” touch panel

MI30 12

Decorative aluminium frame for 7” touch panel.

code colour

Frame for 7” touch panel

MI31 01

Case for recessed mounting and assembly in a plasterboard wall for 7” IP touch panel

MI32 00

Master Pro Evo
LON protocol

System Components

code colour

LPS 133 power supply

MI35 00

Power supply for luminaires with LPT (Link Power Transceiver)

ABL8MEM24012 power supply

MI36 00

Power supply 24Vdc

code colour

LON button interface

MI37 00

Digital output

code colour

LON DR-N 4S-16A I/O module

MI38 00

Independent switch for four load units.
Four relay outputs.

LON DR-N 8S 10A I/O module

MI39 00

Independent switch for eight load units.
Eight relay outputs.
Voltage supply: 24Vdc

code colour

LON DR-M 8S 10A I/O module

MI40 00

Independent switch for eight load units.
Eight relay outputs.

DR-N MSCU4-AC I/O module

MI41 00

Four blinds can be custom-controlled using
standard motors with interference protection.
Eight relay outputs.

DALI control unit

code colour

Control unit LON DALI DR-S 4DIM

MI42 00

Controls and powers up to 64 DALI luminaires
divided into four units. Directs DALI luminaires with LNS
plug-ins. Provides DALI with a 16 V voltage supply.

Control unit LON DALI DR-S 8DIM

MI43 00

Controls and powers up to 64 DALI luminaires
divided into four or eight units.

Control unit LON DALI DR-S 16DIM

MI44 00

Same features as the LON DALI DR-S 4DIM control unit,
but this type of control unit allows 16 DALI units to be controlled.

code colour

LON DALI DR 4x16 DIM Gateway

MI45 00

Four DALI outputs for controlling up to 64 DALI luminaires
for output, divided into sixteen units.

DALI DR-N 140 power supply

MI46 00

Power feeder for LON DALI REG 4x16 DIM gateway.
One 24 Vcc output (max 7 W).
Outputs for powering up four DALI lines
(16 Vcc, 116 mA for output).

DALI multisensors

code colour

DALI LA-11 multi-sensor

MI47 01

Presence detector and light sensor linked with a DALI interface. Adapted for a LON DALI DR-S 8DIM control unit and a DALI REG 4x16 DIM gateway item.

code colour

ILA-22 multi-sensor

MI48 01

Presence detector, light sensor and IR receiver linked. The IR receiver is used to control different ambience functions (together with the IR remote control).

Dimmer outputs

code colour

DR-N DIM 500-UNI I/O module

MI49 00

A universal dimmer for turning on/off and dimming incandescent lamps. HV and LV halogen lamps using bobbin wound transformers or electronic dimmer switches.
Connected load: max 500 VA.

code colour

LON DR-M 8DI DC-P I/O module

MI52 00

Luminaires connected with floating contacts.
Eight imputs.

DR-N 3DIM 1-10V I/O module

MI50 00

Controls luminaires with a 1-10 V interface (controllable electronic ballasts, electronic transformers etc.)
Three analog outputs (1-10 V) for dimming and three relay outputs (N.A. contact, 16 A) for on/off function.
Current load (analog output): max 100 mA.

LON LT-23 AP multi-sensor

MI53 00

For controlling equipment on the basis of sunlight and external temperature.
Light sensor and integrated temperature detector.
Light sensor field: 1 .. 65.000 Lux
Temperature detector field: -20 .. +50°C

LON DR-M 4DI I/O module

MI51 00

Luminaires connected with floating contacts.
Four inputs.

Interface / Gateway

code colour

Web Sever

MI54 00

code colour

Infrared remote control

MI55 04

Rabobank Dommelstreek - Geldrop, Netherlands
Architectural project: Van den Pauwert Architecten BNA
Lighting project: DPL Europe - Photo: David Rozemeijer Fotografie