EAE
TECHNOLOGY

KINEXA
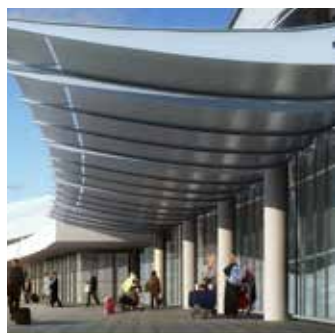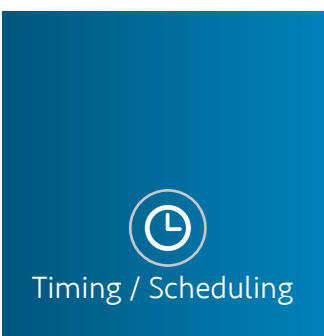## BUILDING MANAGEMENT SYSTEM

Lighting Control

LIGHTING TITAN
HYPERION II

Air Conditioning
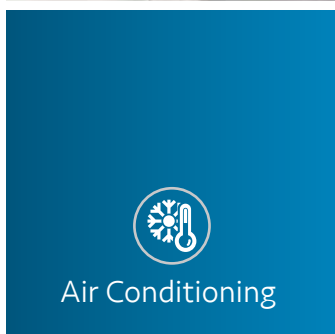
Timing / Scheduling

Curtains/Blinds

INDEX

SUPERIOR QUALITIES OF KINEXA

✓ **Easy control over an architectural visual**

✓ **Access over web browser**

✓ **Instant image formation over AutoCAD file**

✓ **Individual display of fixtures (DALI)**

✓ **Status reporting of emergency lighting fixtures**

✓ **Alarm reporting over SMS and e-mail**

KINEXA is an automation system that has been accepted both in the residential and industrial fields, is compliant with world standards, has unlimited expansion capacity, is flexible in configuration to meet all expectations of customers and supported independently from the main supplier by a wide ecosystem due to its use of open system protocols.

Use energy when needed
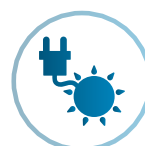
Use energy as necessary

Take advantage of the solar energy to the maximum

Achieve energy savings up to 40*

* When control in the reference building is conducted by means of daylight and movement information instead of manual switches/keys as per DIN V 18599 and EN 15232 standards.

Movement and Daylight Sensor Control
The lighting and air conditioning devices are controlled by means of sensors sensitive to movement.

Schedule Management
Automatic control of devices is ensured by means of daily, weekly monthly or custom developed schedules.

Daylight Dependent Control
Both indoor and outdoor lighting requirements can be managed by means of daylight related controls.

Zone Control On/Off
Standard lighting fixtures can now be managed in line/group basis by means of switching modules.

Air Conditioning Controls
Heating/cooling monitoring and management is in your hands thanks to the fancoil control units.

KIN
BUILDING MA

Central Monitoring / Control
The monitoring and control functions are managed centrally in a convenient manner and with speed over architectural visuals.

DALI Control
You can monitor and manage your lighting fixtures of dimmable and addressable nature.

Curtain/Blind Control
You can control your curtains/blinds and/ or sunshades according to the daylight, time of the day over a central monitoring system.

Emergency Lighting Status Reporting
Reports the battery testing and error status of the emergency lighting fixtures available in the facility.

Reporting of Alarms and Warnings
Provides instant warnings over SMS and e-mail and saves time in special situations where the establishment is required to respond promptly.

NEXA
MANAGEMENT SYSTEM

LIGHTING TITAN HYPERION II

The actual status of the fixtures and curtains is presented instantly to the user via special graphics projected over architectural visuals.

By means of HYPERION II monitoring/control software and through interfaces developed in orientation to your requirements, you can easily and quickly manage all your lighting and curtain/blind systems in commercial buildings.

Is an infrastructure and advanced imaging software that provides the means for arrangements such as timing, daylight based controls, user authorizations, instantaneously tracks and reports the fixture and device failures in the systemand ensures access within seconds over web browsers from any point necessary.

Information: HYPERION II has been designed for the management of lighting and curtain/blind systems.

ARCHITECTURAL VISUALS

The visuals intended for monitoring and control are automatically developed from architectural CAD project file. It is possible to navigate on the visuals by means of "maximize-minimize" and "scroll right-left" functions.

WEB BASED

HYPERION II is a web server rather than PC software. For this reason it can be fully functional on any device in possession of a web browser. There are no limitations on the number of the devices that could be connected to the server.

DALI CONTROL

Can control addressable DALI compatible devices, manage illumination levels and relay fixture error information to the center in a detailed format.

TIME MANAGEMENT/ SCHEDULING

Scheduled controls are conducted over a calendar sensitive to the days of the week as well as the special days.

EMERGENCY LIGHTING REPORTING

Battery status checks and functional tests are conducted and reported based on an automatic testing calendar without any manual intervention from maintenance personnel.
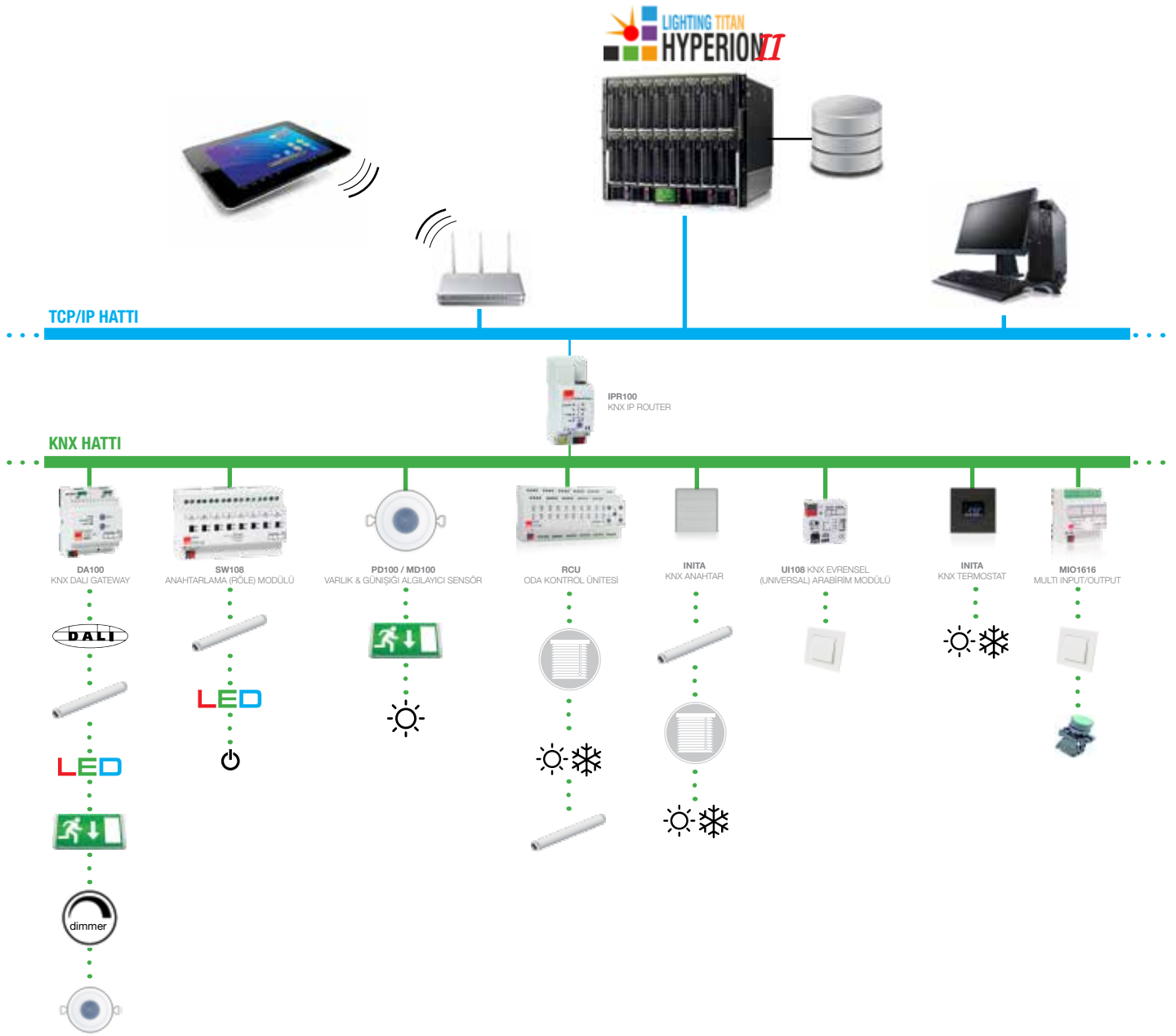
ALARMS AND WARNINGS

Errors and failures (ballast, bulbs, dimmer, etc.) are displayed by using different colors and warnings on the architectural visuals. The warnings can be relayed to the registered users in e-mail and SMS format. Each and every alarm and warning is recorded.

CURTAIN CONTROL

Similar to the lighting fixtures, curtains and blinds can also be enabled and controlled over visuals as related data is read from architectural CAD project.

USER AUTHORIZATION

Authorizations for "Commissioning", "control" and "monitoring" among the users registered in the system are possible. Thanks to this functionality, it is possible to assign different access levels to different users to ensure system security.

TOPOLOGY

LIGHTING TITAN
HYPERION II

TCP/IP HATTI

IPR100
KNX IP ROUTER

KNX HATTI

DA100	**SW108**	**PD100 / MD100**	**RCU**	**INITA**	**UI108** KNX EVRENSEL	**INITA**	**MIO1616**
KNX DALI GATEWAY	ANAHTARLAMA (RÖLE) MODÜLÜ	VARLIK & GÜNIŞIĞI ALGILAYICI SENSÖR	ODA KONTROL ÜNİTESİ	KNX ANAHTAR	(UNIVERSAL) ARABİRİM MODÜLÜ	KNX TERMOSTAT	MULTI INPUT/OUTPUT

DALI

LED

LED

dimmer

PRODUCTS

▶ **PD100 / MD100** MOVEMENT AND DAYLIGHT SENSOR

▶ **INITA** SWITCHES, THERMOSTATS and FRAMES

▶ **RCU2018 / RCU2000 / RCU0800 / RCU0808**
RCU1200 / RCU1212 ROOM CONTROL UNIT

▶ **DA100 / DA110** KNX DALI GATEWAY

▶ **SW104 / SW108** SWITCH ACTUATOR

▶ **UI108** KNX UNIVERSAL INTERFACE MODULE

▶ **MIO1616** MULTI INPUT/OUTPUT

▶ **IPR100** KNX IP ROUTER
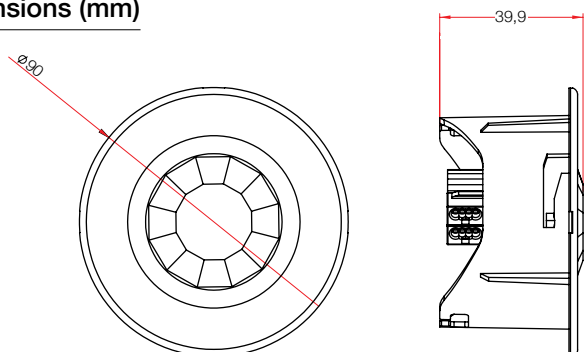
▶ **PSU320/640** POWER SUPPLY

PD100 / MD100
EAE KNX SENSOR

Movement / Presence Detection
+
Constant Light Control
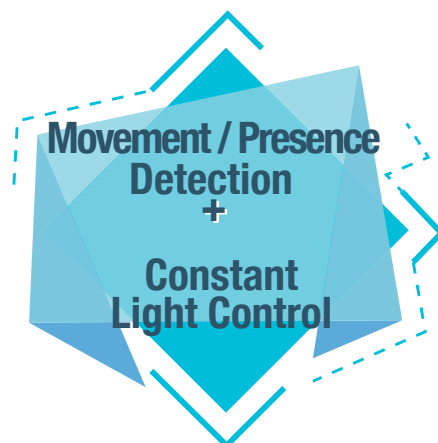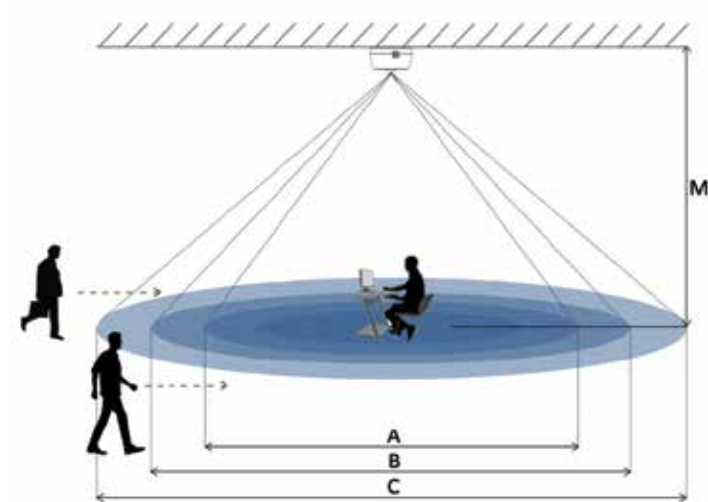
General Specifications

- PD100 movement sensor is ideal for indoor use such as in medium and large scale office spaces, conference halls, corridors, classrooms, parking garages. It comes in two models; flush-mounted and surface-mounted. It can detect movements at 2.5 m assembly height in a diameter of 9 m.

- Thanks to the integrated light level sensor and movement sensor it can implement fixed light function depending on the presence of a movement. The current level of ambient light is compared to the lux level desired to ensure the appropriate level of illumination in the area concerned.

- By means of the corridor function, different levels of brightness can be arranged for the states of; "Movement", "After Movement", and "No Movement". The duration of light projection after the movement can be adjusted by the user.

- Other than the control of the lighting level, it would also be possible to control the air conditioning and ventilation through HVAC.

- It is possible to send periodic information of different communication object by means of the independent movement monitoring channel. This could be used in movement monitoring applications.

- It can operate in parallel connection with other sensors either on standalone or master-slave basis depending on application requirements.

- Based on the state of use of the external controls (button, switch, other sensors, etc.) full or semi automatic operating modes could be set-up.

- Test and calibration modes are convenient during installation.

- Does not need external feed as it receives its feed over KNX line

Dimensions (mm)

Ø90

39,9

Technical Information

Protection Type	IP 20	EN 60529
Safety Class	II	EN 61140
Feed	Voltage range	21 - 30V DC, KNX Hattı ile
	Current consumption	< 10mA
Application areas		Indoors
Sensor Type		Passive infrared
Installation	Location	Ceiling
	Recommended height	2.5 m – 4m
Detection	PD100 Diameter (at 2.5 m height)	6.5 m diameter (tangent walk)
	MD100 Diameter (at 2.5 m height)	9 m diameter (tangent walk)
	Angle	3600
	Light Level	100 – 1000 lux
Additional Channels		Illumination level, movement channel, HVAC ch.
Parallel Operation		Master/Master, Slave/Master
Operating Elements	LED (Red) and button	Used to program the device
Operating Temperature	Operation	- 5°C +45°C
	Storage	-25°C +55°C
	Transportation	-25°C +70°C
Dimensions		42.5 x 42,5 x 12 mm
Weight	0.06 kg	
Ceiling section dimension	75 mm diameter	

A: Area of detection according to a seated person
B: Area of detection upon direct approach on feet
C: Area of detection upon tangent approach on feet

MD100 Movement and Daylight Sensor

MD100	A	B	C
4,0 m	-	10 m	15 m
3,5 m	5,5 m	8 m	13 m
3,0 m	5,0 m	7 m	11 m
2,5 m	4,5 m	6,5 m	9 m

PD100 Presence and Daylight Sensor

PD100	A	B	C
4,0 m	-	-	-
3,5 m	8,5 m	6,5 m	10 m
3,0 m	6,5 m	6 m	7 m
2,5 m	5,5 m	5 m	6 m

Ordering Information

Product Name	Product Code	Ordering Code	Package Information
EAE KNX Presence and Daylight Sensor (Flush mounted)	SMP PD100 EAE F-KNX	48018	1 Ad.
EAE KNX Movement and Daylight Sensor (Flush mounted)	SMP MD100 EAE F-KNX	48019	1 Ad.

INITA
SWITCHES

◇oria
push button
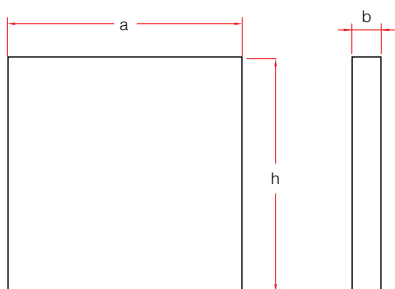
◇rosa
touch button

General Specifications

- Can be configured with ETS4 / ETS5.

- Plastic push-button and metal touch-button switch series

- Wide collection option up to 6 Folds

- Product options with and without notification LED

- Optionally, icon is available.

- Different color options (see: Inita catalog)

- Easy installation to 60x60 mm standard switch junctions

- Channels are identical, each with the following functions;
  - Switching,
  - Value,
  - Dimming,
  - Scene Control,
  - Shutter/Blind Control,
  - Status notification LED

Technical Information

Protection Type	IP 20	EN 60529
Safety Class	II	EN 61140
Feed	Voltage range	21-30V DC, Over EIB/KNX data line
	Feed voltage	15 mA
	Power consumption	15 mA x 30V
Connections	EIB/KNX	Feeds through EIB/KNX data line
Operation LEDs	Programming LED for each fold	To define physical address 1 to 5 RGB LED
Button Operation Life	100.00	
Operation Temperature	Operation	-5° C + 45° C
	Storage	-25° C + 55° C
	Transportation	-25° C + 70° C
CE	Pursuant to EMC Guied and Low Voltage Regulation	

Dimensions (mm)

◇oria

Type	a	b	h
Single	90	9	90
1 Fold	90	9	90
2 Fold	90	9	90
3 Fold	90	9	90
4 Fold	90	9	90
5 Fold	90	9	111,5
6 Fold	90	9	133

◇rosa

Type	a	b	h
Single	80	8,5	80
1 Fold	80	8,5	80
2 Fold	80	8,5	80
3 Fold	80	8,5	80
4 Fold	80	8,5	107,3
5 Fold	80	8,5	134,7
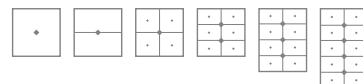
INITA
THERMOSTATS

◇ **oria**
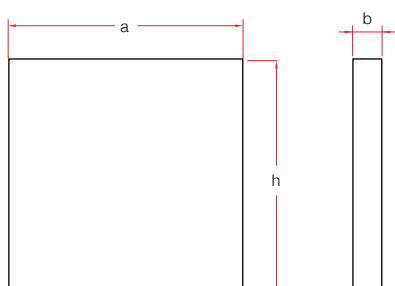**push button**

◇ **rosa**
touch button

General Specifications

- Can be configured with ETS4 / ETS5.
- Wide collection option up to 4 Folds
- Plastic push-button and metal touch-button switch series
- Temperature control via digital LCD
- Internal temperature sensor (°C/ °F)
- Adjustable fan speed (1, 2, 3, Automatic)
- Multiple operation modes (Comfort, Night, Out, Off)
- Fully automated operation feature (warm-cold transition)
- Control of all HVAC units including VRF-VRV and air conditioning devices
- PI proportional, PI on-off (PWM), On/Off, Fan coil, Split unit controls
- Easy installation to 60x60 mm standard switch junction
- Programmable buttons can be programmed for various functions. (2 dependent or 4 independent)
  - Switching,   - Dimming,   - Shutter/Blind Control,
  - Value,   - Scene Control,   - Status notification LED

Technical Information

Protection Type	IP 20	EN 60529
Safety Class	II	EN 61140
Feed	Voltage range	21-30V DC, Over EIB/KNX data line
	Feed voltage	20 mA
	Power consumption	20 mA x 30V
Operation LEDs	Programming LED for each fold	To define physical address 1 to 5 RGB LED
Button Operation Life	100.00	
Operation Temperature	Operation	-5° C + 45° C
	Storage	-25° C + 55° C
	Transportation	-25° C + 70° C
CE	Pursuant to EMC Guied and Low Voltage Regulation	

Dimensions (mm)

◇ **oria**

Type	a	b	h
2 Fold Thermostat	90	9	90
3 Fold Thermostat	90	9	111,5
4 Fold Thermostat	90	9	133

◇ **rosa**

Type	a	b	h
2 Fold Thermostat	80	8,5	80
3 Fold Thermostat	80	8,5	107,3
4 Fold Thermostat	80	8,5	134,7
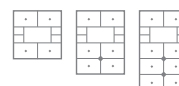
RCU2018 / RCU2000 / RCU0808 / RCU0800 / RCU1212 / RCU1200
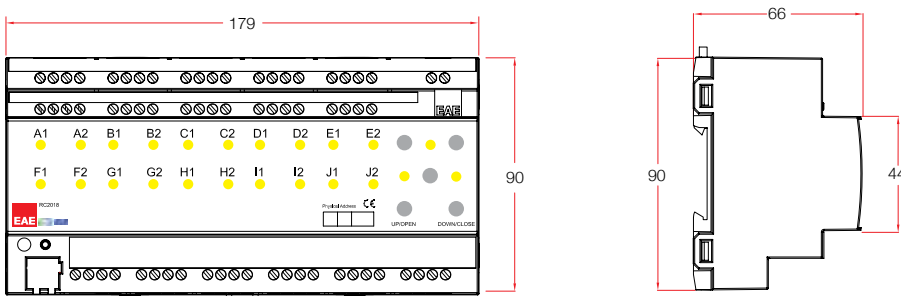## EAE KNX-ROOM CONTROL UNIT

20x16A Outputs
+
18 Inputs
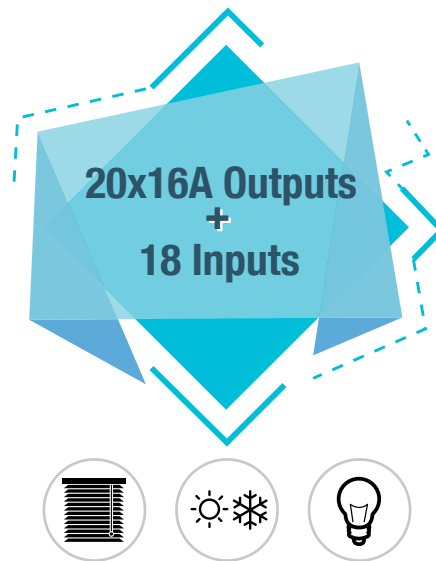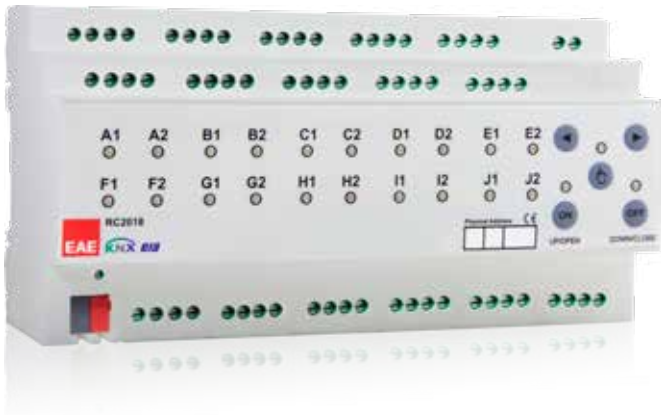
General Specifications

- Room Control Unit RCU2018 is designed as an all in one product for different room layouts such as apartments, hotel rooms, hospitals and residences.

- Room Control Unit covers all requirements of the electrical installation of room applications and offers following functions in a one product.
  - Switching lighting
  - Switching loads
  - Controlling AC/DC blinds
  - Controlling fan coils (2 & 3 point valve)
  - Dry contact inputs

- RCU2018 has 20x16A relay outputs. These outputs are grouped as 5 independent output channels. Each channel can be configured to have different modes of operation as follows,
  - Switching output x4
  - AC Blind x2
  - DC Blind x1
  - 2 Point valve x2
  - 3 point valve x1

- Suitable for switching resistive, capacitive and inductive loads as well as fluorescent lamp loads according to EN 60 669. As a switch output device provides following function list,
  - Staircase
  - External logic
  - Internal logic
  - Priority
  - Threshold
  - Operating hour
  - Sweep

- Device has 18 independent input channels. Input channel operates as universal interface with following functions,
  - Switch / push button input
  - Dimmer control
  - Control of shutter/blinds
  - Value sending
  - Scene control
  - Counter for count pulse

- Manual control is possible for each channel through the built-in button panel.

- 220V auxiliary power is not required.

Dimensions (mm)

Technical Information

Protection Type	IP 20	EN 60529
Safety Class	II	EN 61140
Power supply	Voltage	21V… 30V DC, SELV
	Current consumption	< 10 mA
External supply	-	-
Connections	Screw terminals	0,05…4 mm² solid and stranded wire
		0,05…2,5 mm² stranded wire with ferrule
	Max tightening torque	0.8 Nm
	KNX	Bus connect terminal
Output	Number	20 output
	Switching voltage	250V AC; 50/60 Hz
	Switching capacity 250V AC	16A / AC 1
	Maximum switching power	4000 VA
	Mechanical life	$> 1 \times 10^6$
Type of contact	potential-free, bistable	
Input	Number	18 binary inputs
	Scanning voltage	32V pulsed
	Current	0.1 mA
	Cable length	<300 m
Installation	35mm mounting rail	EN 60 715
Operating elements	LED (red) and button	For physical address
Temperature range	Ambient	-5° C + 45° C
	Storage	-25° C + 55° C
Humidity	max. air humidity	85 % no moisture condensation
Dimensions		66 x W x 90mm
	Width W in mm	180 mm
	Width W in units (18 mm modules)	10 modules
Weight	0.65 kg	
Box	Plastic, polycarbonate, colour grey	
CE	In accordance with the EMC guideline and low voltage	

Application program	Communication objects	Number of addresses(max)	Number of assignments(max)
	254	255	255

DA100
EAE KNX-DALI GATEWAY   (16 Group Control)

Emergency Lighting Monitoring

General Specifications

- Device parameters can be configured via ETS3/ETS4/ETS5.

- DA100 KNX-DALI interface operates as a DALI-IEC 62386 standard compliant gateway between KNX line and DALI. DALI line power supply is available as integrated to the device.

- Maximum of 64 DALI devices can be connected to DALI outlet(electronic ballast, LED drive, ECK, sensor).

- The operations such as addressing, grouping, etc. of DALI devices are performed by means of Windows based DALI commissioning software (EAE DALI Commissioning Tool).

- DA100 provides the means for the recording of 16 DALI Group controls and 64 different lighting scenes.

- Each DALI group could be operated with fixed light, corridor and sequence functions.

- The functional and battery testing calendars are loaded on to DALI compliant emergency lighting fixtures to ensure that periodic tests are conducted. The results of the tests conducted are relayed over KNX line.

- DA100 can use up to 8 DALI sensors. Sensors can operate the corridor and fixed lighting functions over DALI Groups. It is possible to relay movement information and brightness value to KNX line.

- The error status of DALI devices can be received by means of different KNX communication objects on device and group basis.

- Intersecting DALI groups can be created.

Dimensions (mm)

Technical Information

Protection Type	IP 20	EN 60529
Safety Class	II	EN 61140
KNX Feed	Voltage range	21 - 30V DC, SELV
	Current consumption	< 10mA
External Feed	Voltage range	85 - 300V AC @ 50-60Hz
	Power Consumption	≤ 8W
	Current consumption	100mA @ 85V AC
DALI Feed	Voltage range	16V DC ~
	Current consumption	≤ 200mA
Connections	Screw terminal	0,05 - 2,5mm2 single core cable
		0,03 - 1,5mm2 multi core cable
	Maximum Torque	0.5Nm
	KNX Terminal	Red-Black KNX Line Connection
Output	Number of DALI devices	Maximum 64 (max. 8 sensors)
	Cable lengths	1.5 mm2 ≤ 300 m
		0.75 mm2 ≤ 150 m
		0.5 mm2 ≤ 100 m
Configuration	35 mm mounting rail	EN 60715
Operating Elements	Programming LED and button	Used for physical address
	Green LED [7]	Problem-free KNX line
	Yellow LED [8]	First start-up (fast flashing)
		Device failure on DALI Line (slow flashing)
		Power supply fault (continuously on)
	Red LED [9]	Manual control active
	Manual Button [10]	Entire DALI line on-off, dimming (when manual
	Test Button [11]	control is active)
Operating Temperature	Operation	5°C +45°C
	Storage	-25°C +55°C
	Transportation	-25°C +70°C
Humidity	Maximum humidity	95% no condensation
Dimensions		70 x G x 91mm
	Width W (mm)	69mm
	Width W (unit)	4 modules (18 mm module)
Weight		0.15 kg
Box	Plastic, Policarbon, Grey	
CE	Pursuant to EMC Guide and Low Current Regulation	

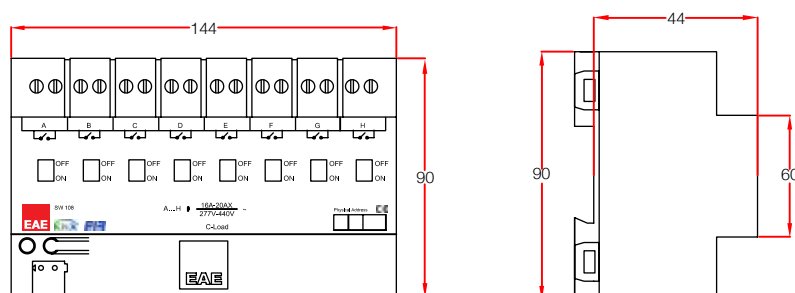| **Application Program**	Communication objects	Max. Group Addresses	Max. no. of matches
	249	254	255

Ordering Information

Product Name	Product Code	Ordering Code	Package Information
DA100 EAE Knx Dali Gateway V2	SMP DA100 EAE S-KNX	48017	1 unit

DA110
EAE KNX-DALI GATEWAY (64 Ballast Control)

64 Balast Individual Control

General Specifications

- DA110 KNX-DALI interface operates as a DALI-IEC 62386 standard compliant gateway between KNX line and DALI. DALI line power supply is available as integrated to the device.

- Maximum of 64 DALI devices can be connected to DALI outlet (electronic ballast, LED drive, ECK, sensor).

- The operations such as addressing, grouping, etc. of DALI devices are performed by means of Windows based DALI commissioning software (EAE DALI Commissioning Tool).

- DA110 provides the means for the recording of 16 DALI Group controls and 64 different lighting scenes.

- The functional and battery testing calendars are loaded on to DALI compliant emergency lighting fixtures to ensure that periodic tests are conducted. The results of the tests conducted are relayed over KNX line.

- The error status of DALI devices can be received by means of different KNX communication objects on device and group basis.

Dimensions (mm)

Technical Information

Protection Type	IP 20	EN 60529
Safety Class	II	EN 61140
KNX Feed	Voltage range	21 - 30V DC, SELV
	Current consumption	< 10mA
External Feed	Voltage range	85 - 300V AC @ 50-60Hz
	Power Consumption	≤ 8W
	Current consumption	100mA @ 85V AC
DALI Feed	Voltage range	16V DC ~
	Current consumption	≤ 200mA
Connections	Screw terminal	0,05 - 2,5mm2 single core cable
		0,03 - 1,5mm2 multi core cable
	Maximum Torque	0.5Nm
	KNX Terminal	Red-Black KNX Line Connection
Output	Number of DALI devices	Maximum 64 (max. 8 sensors)
	Cable lengths	1.5 mm2 ≤ 300 m
		0.75 mm2 ≤ 150 m
		0.5 mm2 ≤ 100 m
Configuration	35 mm mounting rail	EN 60715
Operating Elements	Programming LED and button	Used for physical address
	Green LED [7]	Problem-free KNX line
	Yellow LED [8]	First start-up (fast flashing)
		Device failure on DALI Line (slow flashing)
		Power supply fault (continuously on)
	Red LED [9]	Manual control active
	Manual Button [10]	Entire DALI line on-off, dimming (when manual
	Test Button [11]	control is active)
Operating Temperature	Operation	5°C +45°C
	Storage	-25°C +55°C
	Transportation	-25°C +70°C
Humidity	Maximum humidity	95% no condensation
Dimensions		70 x G x 91mm
	Width W (mm)	69mm
	Width W (unit)	4 modules (18 mm module)
Weight		0.15 kg
Box	Plastic, Policarbon, Grey	
CE	Pursuant to EMC Guide and Low Current Regulation	

Application Program	Communication objects	Max. Group Addresses	Max. no. of matches
	249	254	255

SW104/SW108
EAE KNX SWICTH ACTUATOR

500A Inrush Current Switching
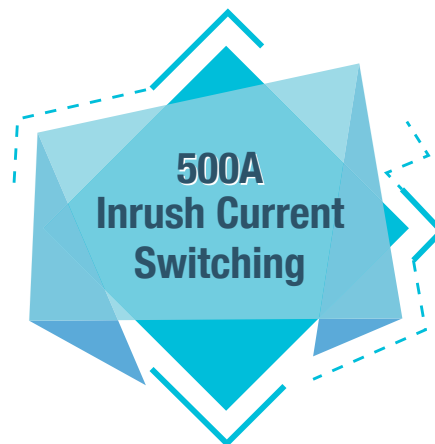
General Specifications

- Possesses 8 independent channels that could be configured by means of ETS3/ETS4/ETS5.

- In addition to switching fluorescent lamps according to EN 60 669 standard it can also perform the switching of resistive and inductive loads. (16A-20AX/C-Load).

- Each channel can be controlled manually on the device.

- The following functions can be defined separately for each channel:
    - Stair function
    - External logic
    - Internal logic
    - Priority function
    - Threshold function
    - Transaction time
    - Sweeping function.

- Does not need an external power supply

- The current on/off situations can be arranged by means of ETS parameters.

Dimensions (mm):

Technical Information

Protection Type	IP 20	EN 60529
Safety Class	II	EN 61140
Feed	Voltage range	21 - 30V DC, SELV
	Current consumption	< 10mA
Connections	Screw	0,05 - 2,5 mm^2
		0,03 - 1,5 mm^2 high
	Maximum Torque	0.8 Nm
	KNX Terminal	Line Connection
Output	Number of output units	8 units
	Switching current	277/440 AC; 50/60 Hz
	Switching capacity 277 V AC	16A / AC 1
	Fluorescent Lighting EN 60 699-1	16AX/250 VAC (200µF)
Relay	Mechanic Life	> 3 x 10^6
Contact type	Bistable, dry contact	
Configuration	35 mm mounting rail	EN 60 715
Operating Elements	LED (Red) and button	Used for physical address
Operating Temperature	Operation	- 5°C +45°C
	Storage	-25°C +55°C
	Transportation	-25°C +70°C
Humidity	Maximum humidity	95% no condensation
Dimensions	60 x 144 x 89 mm	
Weight	0,45 kg	
Box	Plastic, poly-carbon, gray	
CE	Pursuant to EMC Guide and Low Current Regulation	

Application Program	Communication objects	Max. Group Addresses	Max. no. of matches
	122	253	253

Ordering Information

Product Name	Product Code	Ordering Code	Package Information
EAE Switch Actuator 8x16A	SMP SA108 EAE S-KNX	48002	1unit

UI108
EAE KNX-UNIVERSAL INTERFACE

**6 Different
Operating Modes**
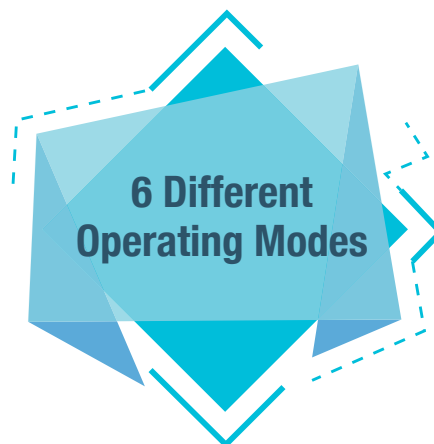
General Specifications

- 8 functional input channels that could be adjusted by means of ETS3/ETS4/ETS5.

- Easy connection with colored connection cables.

- Use by means of conventional switches/buttons upon installation in flush mounted switch boxes.

- Means for including the devices reporting dry contact information, in KNX line.

- The channels are identical with each being in possession of the following functions:
  - Switching
  - Dimming
  - Curtain control
  - Value and priority information relay
  - Scene control
  - Pulse counter

Dimensions (mm)

42,5   12,5

42,5   42,5

UI108
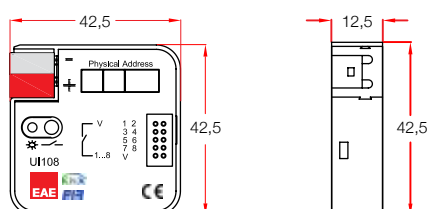
Technical Information

Feed	Voltage range	21 - 30V DC, KNX Line
	Current consumption	< 10mA
Inlet	Number of connection points	There are 8 connection points that are used as inlets
	Permitted cable length	≤ 10 m
Inlet	Detected Voltage	3.3 V DC
	Current inflow	0.5 mA
	Safety	Short circuit protection, over voltage protection, reverse voltage protection
Operating Elements	LED (Red) and button	Used for programming the device
Connections	Inlets	2 x 5 Connector
	KNX	Line Connection
Operating Temperature	Operation	
	Storage	-5°C +45°C
	Transportation	-25°C +55°C
Dimensions	42.5 x 42.5 x 12 mm	-25°C +70°C
Weight	0.06 kg	
Box	Plastic, poly-carbon, gray	
CE	Pursuant to EMC Guide and Low Current Regulation	

Application Program	Communication objects	Max. Group Addresses	Max. no. of matches
	56	254	255

Ordering Information

Product Name	Product Code	Ordering Code	Package Information
EAE Universal Interface Module – 8 ch.	SMP UI108 EAE S-KNX	48003	1 unit

MIO1616
EAE KNX - MULTI INPUT/OUTPUT

**16 Inputs
+
16 Outputs**
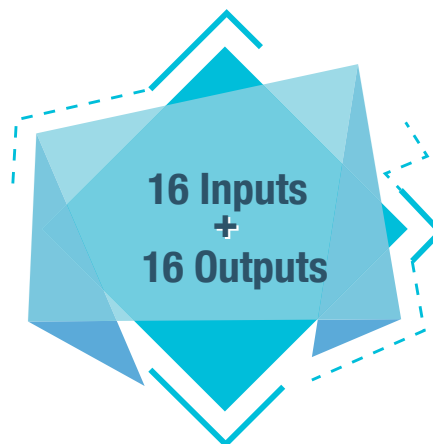
General Specifications

- The KNX Multi Input/output MIO1616 provides multiple connections for push buttons and signal lamps for building functions in one device.

- All channels can be parameterized independently with ETS4/ETS5 or higher version.

- MIO1616 has 16 input channels and 16 output channels

- 16 input channels provide following function list,
  - Switch / push button input
  - Dimmer control
  - Control of shutter/blinds
  - Value
  - Scene control
  - Counter for count pulse

- 16 output channels provide following function list,
  - LED control

- Does not require an external power supply

Dimensions (mm)
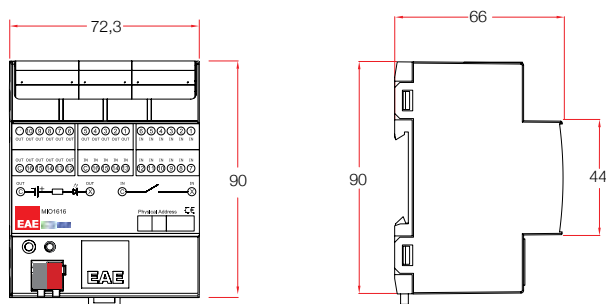
Technical Specifications

Type of protection	IP20	EN 60 529
Safety class	II	EN 61 140
Power supply	- Voltage	21V… 30V DC, KNX hattı ile
	- Current draw from bus voltage	<10 mA
Inputs	- Number	16 giriş
	- Maximum cable length	<10 m
Input	- Scanning voltage	5V DC
	- Input current	0.5 mA
Outputs	- Number	16 çıkış
	- Maximum cable length	<10 m
Output	- Output current	400 mA
	- Load type	Rezistif
Operating elements	- LED (red) and button	Fiziksel adres için
Connections	- Input /Output	
	- KNX	Hat bağlantısı
Temperature range	- Ambient	-5° C + 45° C
	- Storage	-25° C + 55° C
Humidity	- max. air humidity	95 % yoğunlaşma yok
Dimensions		65,5 x G x 89mm
	Width W in (mm)	72 mm
	Width W in units (18 mm modules)	4 modül (18 mm modül)
Weight	0.15 kg	
Box	Plastic, polycarbonate, colour grey	
CE	In accordance with the EMC guideline and low voltage	
Application program	Communications objects	144
	Number of addresses (max)	255
	Number of assignments (max)	255

IPR100
EAE KNX-IP ROUTER

4 Simultaneous KNXnet/IP Connections
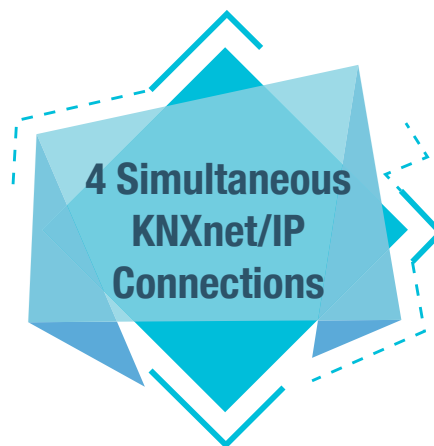
General Specifications

- EAE KNX IP router may be used as line or backbone coupler and ensures data connection between KNXnet/IP on top and TP KNX bus line at bottom. Moreover it also ensures electrical insulation between the linked lines.

- EAE KNX IP router is a tunneling and routing device. It establishes ETS connection points to start-up and monitor lines with the IP router channeling protocol. (It also possible to simultaneously create 4 KNXnet/IP connections).

- The device makes it possible to connect to two different KNX installations, and ensures the transmission of telegrams between the local network and different lines.

- IP address of the device may be assigned by DHCP server or by manual configuration.

- It can either block or transmit the telegrams between KNX line and IP medium based on the settings in the device filter table.

- It is possible to close without reconfiguring the ETS parameters of filter table for quick diagnosis thanks to the button on the device.

- After the filter of the routing table and filter table ETS configurable time of the device expires, it may be automatically started up.

- The detailed information is shown with 6 LED in order to define the operating status.

Dimensions (mm)

Technical Information

Protection Type	IP 20	EN 60529
Safety Class	II	EN 61140
Power source	Feed voltage	DC 24 V (12V… 30V DC)
	Bus	DC 21…30V SELV
	Current traction through KNX	Type 5 mA
	Current traction	Type 190 mA
	Power consumption	Type 520 mW, max 800 mW
Connections	IP Line	RJ45 socket for 10/100Base T, IEEE 802.3 networks
Screen components	KNX Line	Bus connection terminal
	Power LED	Malfunction LED
	LAN-OK LED	KNX-OK LED
	LAN-RX/TX LED	KNX-RX/TX LED
	Programming mode LED	
Operating components	Function button	
	Programming button	
Installation	35mm DIN rail mounting	EN 60 715 TH 35-75
High Voltage Class	III	IEC 60664-1
Temperature range	Operation	-5 ºC + 45 ºC no humidity
	Storage	-20 ºC + 60 ºC
Humidity		5% to 93% no humidity
Measurements	(H x W x D)	90 mm x W x 70 mm
Weight	Width is in W mm	36 mm
Package / Color	Width is in W units (18 mm module)	2 modules
CE	66 g	Installed in 64 mm of depth
	Plastic PA66 / Gray	
	Complies with EMC and low voltage rules. The device is compliant with EN 50090-2-2 and IEC 60664-1 a	

Ordering Information

Product Name	Product Code	Ordering Code	Package Information
EAE IPR100 KNX-IP Router	SMP IPR100 EAE S-KNX	48015	1 unit
EAE IPI100 KNX-IP Gateway	SMP IPI100 EAE S-KNX	48016	1 unit

PS320 / PS640
EAE KNX - POWER SUPPLY

**Additional
30V DC Output**

General Specifications

- EAE KNX Power Supply is available in 320 mA and 640 mA versions.

- Input voltage range 150-275V AC, 50 60Hz

- Both models have two voltage outputs.

    - Output 1: KNX bus power with an integrated choke. (30VDC, SELV)

    - Output 2: Additional voltage output. (30VDC, SELV)

- Power supply outputs are short-circuit and overload protected.

- Power, Overload and Reset statuses are indicated with three different LED indicators

- Device can be restarted by pressing reset button on the device.

Dimensions (mm)

Technical Information

Protection Type	IP 20	EN 60 529
Safety Class	II	EN 61 140
Insulation category	Over voltage category	III EN 60 664-1
	Pollution degree	2 EN 60 664-1
Main Supply	Input voltage	150-275V AC, 50-60Hz
	Power consumption PS320	11,5 W
	Power consumption PS640	22 W
	Power loss PS320	2 W
	Power loss PS640	3,6 W
Output	Output 1	KNX bus
		30 VDC +1/-2 V, SELV ((integrated choke)
	Output 2	30 VDC +1/-2 V, SELV (without choke)
	Short-circuit current PS320	1 A
	Short-circuit current PS640	1,5 A
Connections	Screw terminal	0,2 – 5,3 mm² solid and stranded wire
		0,2 – 5,3 mm² stranded wire with ferrule
	Maximum torque	0.78 Nm
	KNX	Kırmızı-Siyah KNX hattı bağlantısı
Installation	35mm mounting rail	EN 60 715
Operational elements	Power (green)	ON: Input voltage and KNX voltage is OK.
	Overload (red)	ON: Overload or short-circuit.
	Reset button and LED (red)	ON: Reset in progress.
		Press and hold reset button until the
		reset LED lights up. No power on KNX bus
		for 20 s. After reset, rest LED will turn off.
Temperature	Ambient	-5° C + 45° C
	Storage	-25° C + 55° C
Humidity	Max. air humidity	95 % no moisture condensation
Dimensions		60 x W x 90 mm
	Width G (mm)	126 mm
	Width G (unit)	7 module (18 mm module)
Weight	PS320	0.28 kg
	PS640	0,29 kg
Box	Plastic, polycarbonate, colour grey	
CE	In accordance with the EMC	
	guideline and low voltage	

LCP
LIGHTING CONTROL PANEL

LCP Panel collection contains ready solutions at any panel size that may be required by small and medium sized businesses with its 16, 24, 32, 48, and 56-line (16A) options.

LCP lighting control panels are ready for use and tested lighting panels that can be used in place of the classic lighting panels that are conveniently priced. Lighting automation that contains the line / group control and timing functions retains these functions within.

Upon the installation of the panel to its place and completingthe connections, the panel will become ready for use. No startup process or automation knowledge is required in order for the system to run.

Timings may be easily adjusted by the end user. Optionally, touch screen panel and daylight control function may be added to the panels.

LCP 24-R3 I1D0P1-MCB0-TP

LIGHTING AUTOMATION

IS NOW SO SIMPLE

WITH LCP LIGHTING PANEL...

LCP Lighting control panels, which provides savings by using less materials and labor in a ratio that reaches **20%**, compared to classic distribution panel (impulse current switching) solutions

▶ **Ready Lighting Control Panel**
- With 16, 24, 32, 40, 48, 56 output lines according to requirements.
- Ready for use and tested

▶ **Expansion Options**
- Touch screen panel can be added for central monitoring / control
- Timing control
- Tiered ON/OFF control based on daylight
- Stage control

Cost savings

Up to 20%

	LCP Lighting Control Panel	Classic Lighting Panel (With impulse current switch/Contactor)
Panel, Project design	+ Panel design performed, and tested. Ready to use panels.	– Panel project has to be arranged according to requirements.
Easy to program	+ The button-line programs can easily be customized when required.	– Panel project has to be arranged according to requirements.
Installation time	+ Faster cabling installations with 2-wire cable between the power panel and the button panels.	– Revision will be needed to be performed in modification within the panel and cabling.
Labor	+ Ease of installation of intra-panel communication cable (with only a 2-wire cable)	– Multiple control cables bring with them installation within the panel, regulating and labeling burdens.
Optional features	+ Central monitoring / control panel may be added.	–
	+ The timing function may be added.	–
	+ Daylight-dependent ON / OFF control may be added.	–
Savings	+ Power panel, button panel, cabling and labor costs are lower.	–
(Sample project cost)	*3.848 €**	*4.633 €**

1 € = 3.04 TL

LCP PRODUCTS

LCP 16 / 24 / 32 / 40 / 48 / 56 Distribution Panels

Output Line	16/24/32/40/48/56 Programmable mono-phase output line
Touchscreen panel	5.7 inch, 210 function support
Switching current	16AX (C-load) 600A inrush Current Resistance
Input switch	MCCB
Protection Class	IP 54

External Touchscreen Panel

Touchscreen panel	11.6 inch, 210 function support
Feed	22V DC
Communication	KNX - ETHERNET
Protection Class	IP 20

Daylight Sensors (Closed Loop)

Feed	KNX Bus
Communication	KNX 2x2x0,8 mm² LIK(st)
Protection Class	IP 20
Dimensions (axh)	75 mm x 26 mm
Weight	50 gr

*For closed loop

Daylight Sensors (Open Loop)

Feed	KNX Bus
Communication	KNX 2x2x0,8 mm² LIK(st)
Protection Class	IP 54
Dimensions (axbxh)	110 mm x 72 mm x 54 mm
Weight	145 gr

*For open loop

* It is necessary to use closed loop daylight sensors for places of up to 4 m in height and for spaces higher than that "open loop" daylight sensors are employed.

CLASSIC SOLUTION & LCP PANEL

SAMPLE COST ANALYSIS

Classic System		LCP Solution	
48 line panel			LCP 48 R6I0D0P1MCB1
1 x	1.344 €	1.398 €	**1 x**
48 button box	970 € x 2 = 1.940 €	1177 € x 2 = 2.354 €	Touch Screen Panel
2 x			**2 x**
Communication cable	10 € / m.	0,66 € / m.	Communication cable
*140 m	138 €	92,4 €	***140 m**
Minimum (30 x 1 mm2) x 3 units			YCYM 2 x 0,8 mm^2
Total Cost	**4.633 €**	**3.848 €**	
Labor	+	+	

* the distance between power panel and button panels was assumed to be 70 m.

3 YEAR ♦ WARRANTY ♦

♦ **DELIVERY** ♦ **FROM STOCK**

CERTIFICATES

Quality

CERTIFICATE OF CONFORMITY

CERTIFICATE No: 286/11730/14

Delivered to

EAE TEKNOLOJI ARASTIRMA GELISTIRME SAN.VE TIC.A.S.
Ikitelli OSB. Eski Turgut Özal Ca. No 20 Basaksehir
TR-34306 Istanbul
TURKEY

This is to certify that the underneath listed product:

IPR100 IP Router

Order number: 48004
Application program: IP Router/1.0
EIB logo: -
KNX logo: Yes

has been satisfactorily assessed by KNX Association as regards software (on the basis of the test reports delivered by the main certificate holder) and as regards hardware under the rules of the KNX certification system against the requirements of the KNX specifications v2.1.

The certificate holder is granted right of entry of the above product into the KNX register of qualified products (established for the first time on 6/19/2015).

The certificate holder may use the KNX or EIB (see above) trademark in accordance with the relevant trademark rules, as laid down in the KNX trademark and certification documentation (KNX issue 02/2008).

Subject to continuing compliance with the rules and the declaration previously given this certificate has an unlimited validity.

Chief Technical Officer
KNX ASSOCIATION cvba

Date: 18 June 2015

This certificate is not transferable and remains property of KNX Association cvba. KNX Association cvba has no liability for product failures after product registration or certification.

KNX The worldwide STANDARD for home and building control

CERTIFICATE OF CONFORMITY

CERTIFICATE No 286/10810/13

Delivered to

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Ikitelli OSB. Eski Turgut Özal Ca. No 20 Basaksehir
TR-34306 Istanbul
TURKEY

This is to certify that the underneath listed product:

UI108 Universal Interface, 8-Channel

Order number: 48003
Application program: Universal Interface,8-Channel/1.1/1.1
EIB logo: Yes
KNX logo: Yes

has been satisfactorily assessed by a KNX accredited test lab as regards software (report nr T13_07_EAE_UID_1.0 from 6/17/2013) resp. KNX Association as regards hardware, under the rules of the KNX certification system against the requirements of the KNX specifications v2.0.

The certificate holder is granted right of entry of the above product into the KNX register of qualified products (established for the first time on 6/11/2014).

The certificate holder may use the KNX or EIB (see above) trademark in accordance with the relevant trademark rules, as laid down in the KNX trademark and certification documentation (KNX issue 02/2008).

Subject to continuing compliance with the rules and the declaration previously given this certificate has an unlimited validity.

Chief Technical Officer
KNX ASSOCIATION cvba

Date: 18 June 2015

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CERTIFICATE OF CONFORMITY

CERTIFICATE No 286/11116/13

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Ikitelli OSB. Eski Turgut Özal Ca. No 20 Basaksehir
TR-34306 Istanbul
TURKEY

This is to certify that the underneath listed product:

SW108 Switch Actuator,8-Channel 16A

Order number: 48002
Application program: Switch Actuator,8-Channel 16A/1.1/1.1
EIB logo: Yes
KNX logo: Yes

has been satisfactorily assessed by a KNX accredited test lab as regards software (report nr L13_10_EAE_SW-AK_1.0 from 10/1/2013) resp. KNX Association as regards hardware, under the rules of the KNX certification system against the requirements of the KNX specifications v2.0.

The certificate holder is granted right of entry of the above product into the KNX register of qualified products (established for the first time on 6/11/2014).

The certificate holder may use the KNX or EIB (see above) trademark in accordance with the relevant trademark rules, as laid down in the KNX trademark and certification documentation (KNX issue 02/2008).

Subject to continuing compliance with the rules and the declaration previously given this certificate has an unlimited validity.

Chief Technical Officer
KNX ASSOCIATION cvba

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Ikitelli OSB. Eski Turgut Özal Ca. No 20 Basaksehir
TR-34306 Istanbul
TURKEY

This is to certify that the underneath listed product:

DA100 DALI-Gateway 8-Sensor Slot,Emergency Light

Order number: 48001
Application program: DALI-Gateway 8-Sensor Slot,Emergency Light/1.4/1.4
EIB logo: Yes
KNX logo: Yes

has been satisfactorily assessed by a KNX accredited test lab as regards software (report nr L13_11_EAE_DALI from 7/14/2014) resp. KNX Association as regards hardware, under the rules of the KNX certification system against the requirements of the KNX specifications v2.0.

The certificate holder is granted right of entry of the above product into the KNX register of qualified products (established for the first time on 6/20/2014).

The certificate holder may use the KNX or EIB (see above) trademark in accordance with the relevant trademark rules, as laid down in the KNX trademark and certification documentation (KNX issue 02/2008).

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Chief Technical Officer
KNX ASSOCIATION cvba

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REFERENCES

TURK TELEKOM R&D BUILDING
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SOCIAL SECURITY INSTITUTION
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KUTAHYA CERAMIC
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AGT WOODEN
Antalya

LULEBURGAZ BUS TERMINAL
Luleburgaz

TOSCELIK
Mersin

RENAULT
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REFERENCES

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Aksaray

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ASYAPORT
Cerkezkoy

REFERENCES

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KONYA SEKER
Konya

NOTES

NOTES

EAE Teknoloji A.Ş.
Kinexa Product Catalog - 2018

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