



futurasmus
KNX GROUP

TOTAL SATISFACTION GUARANTEE

KNX[®]

RECOMMENDED KNX PRODUCTS CATALOGUE

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PRODUCTS BY MANUFACTURER



Everything you need in one place

ANÁSUS LAB



What makes us different, all the support for the KNX integrator.

4 COMM Unit

This all-inclusive communications module allows the end user to interact remotely with his KNX system in multiple ways: SMS, missed calls, e-mail and web visualization. As the device has a GPRS connection, it is not necessary to have Internet in order to use the email service or the remote web visualization. In addition, it has a very powerful logic controller.

- 42 visualization objects (DPT up to 4 bytes).
- Alarms, actions and KNX group addresses status requests via SMS.
- Telephone book that allows the classification of contacts in different groups to address various recipients.
- KNX telegram transmission via missed calls.
- Warnings via e-mail as a response to KNX telegrams.
- Alerts with power supply failure and return.
- Visualization compatible with web browsers of any mobile device.
- Remote GPRS access to be able to control KNX systems where there is no Internet connection.
- Integrated web server for the visualization and the configuration of the device.
- KNX time switch (It can obtain the time from NTP servers).
- Logic controller functions:
 - Logic and arithmetic gates, comparators, converters, etc.
 - Scenes module with delays.
 - Weekly time schedules.



| WEB CODE | ORDER Nr. | DESCRIPTION | LIST PRICE | P.G. |
|----------|-----------|-----------------------------------|------------|------|
| 9788 | 10100503 | COMMUNICATIONS MODULE 4 COMM UNIT | 645,00 | 5 |

ARCUS



arcus-eds
electronic design services gmbh

What makes us different, all the support for the KNX integrator.

Touch_IT C3

Touch display 3,5" for the visualization and control of KNX systems. Configuration takes place from the ETS with no need of additional software. The end user can choose from the different outlines and available colour patterns in order to change the appearance of the interface, directly from the display!

- Display resolution: 320x240, 256K colours.
- 196 Communication objects.
- 5 pages with up to 8 visualization/control elements each.
- Customized icons.
- RGB Control.
- Weekly schedules that can be edited by the end user.
- Alarm clock and countdown (it beeps and send group addresses) functions.
- Room thermostat function.
- It allows the protection of each control element with a password.
- It shows KNX text chains messages (14 bytes).
- Additional page for alarm management.
- Buzzer for alarm signal.
- Optionally, micro SD slot for on-line KNX telegram logging.
- Screen saver with fixed image or animated .gif.
- Additional power supply (9-32VDC, 1.5VA) needed.
- Standard flush-mounting box.
- Integrated Bus Coupling Unit.



| WEB CODE | ORDER Nr. | DESCRIPTION | LIST PRICE | P.G. |
|----------|-----------|--------------------------------------|------------|------|
| 9992 | 22310200 | TOUCH DISPLAY TOUCH_IT C3, ALUMINIUM | 396,00 | 7 |

Water Quality Sensor

For measuring all necessary parameters which determine the quality of water in swimming pools, fish tanks, ponds, service water systems, etc.

- Measurement of pH Value (concentration of hydrogen ions).
- Measurement of ORP level (Redox potential).
- Measurement of water temperature (using a PT1000 sensor, not included).
- The pH and ORP values can be sent as 1 byte, 2 bytes or 4 bytes.
- Two-point, PI or PWM control of pH and ORP levels.
- Communication objects for manual calibration.
- Automatic calibration, if using the temperature sensor.
- Maximum and minimum thresholds.
- 2 potential-free inputs.
- Integrated Bus Coupling Unit.



| WEB CODE | ORDER Nr. | DESCRIPTION | LIST PRICE | P.G. |
|----------|-----------|----------------------|------------|------|
| 9151 | 30802001 | WATER QUALITY SENSOR | 398,00 | 5 |

⌚ Soil Temperature And Humidity Sensor

Equipped with a external sensor that must be inserted into the ground for the measurement of soil temperature and humidity. It has multiple applications, from an advanced and precise watering system (not only based in time schedules) to the humidity management for special crops, insect breeding, etc.

- Measurement of soil temperature value.
- Measurement of soil humidity value (suction power) in hPa.
- The values can be sent as 2 bytes or 4 bytes.
- Two-point, PI or PWM control of temperature.
- Two-point, PI or PWM control of humidity.
- Maximum and minimum thresholds.
- Also available with P1000 additional sensor for measuring temperature and humidity of the air.



| WEB CODE | ORDER Nr. | DESCRIPTION | LIST PRICE | P.G. |
|----------|-----------|--|------------|------|
| 9169 | 30805001 | SOIL TEMPERATURE AND HUMIDITY SENSOR | 298,00 | 5 |
| 10023 | 30805021 | SOIL AND AIR TEMPERATURE AND HUMIDITY SENSOR | 335,00 | 5 |

⌚ DMX Gateway

Interface between the KNX bus and the DMX bus. The DMX bus is generally used for the control of stage lighting, as well as LED illumination in homes, offices, buildings, etc. This gateway is a master device in the DMX bus and allows the control of 512 channels.

- ETS configuration is not required.
- Functions per channel:
 - On/Off.
 - Dimming.
 - Set value.
- 2 firmware versions available:
 - Firmware 512 channels:
 - Control of 512 DMX channels.
 - 8 scenes.
 - Firmware 32 channels:
 - Control of 32 DMX channels.
 - 64 scenes.
 - It sends the status value (1 byte) of all 32 channels.
 - Up to 4 sequences that can be programmed by the end user.



| WEB CODE | ORDER Nr. | DESCRIPTION | LIST PRICE | P.G. |
|----------|-----------|-------------|------------|------|
| 7982 | 40120186 | DMX GATEWAY | 325,00 | 7 |

Gateway RS-232/RS-485

Bidirectional interface between KNX and the serial interface RS232 and RS485. It allows the easy integration in the KNX bus of conventional components which have RS-232 or RS-485 ports.

- Bidirectional: KNX telegrams are created when a serial telegram is received; also, it receives KNX telegrams and generates serial telegrams.
- RS232: 115,2 KBaud max.
- RS485: 250.0 KBaud max.
- Up to 200 serial strings.
- The strings sent by the serial port might include the value of the triggering group address.
- The strings received by the serial port might be analysed to extract a value and send it like the value of the linked group address.



| WEB CODE | ORDER Nr. | DESCRIPTION | LIST PRICE | P.G. |
|----------|-----------|-----------------------|------------|------|
| 9653 | 40220186 | GATEWAY RS-232/RS-485 | 325,00 | 7 |

B+B



What makes us different, all the support for the KNX integrator.

KNXGuard



It protects your KNX installation against unauthorised reprogramming, which can be extremely useful in installations such as hotels, etc. The device detects the transmission of programming telegrams and eliminates them. It does not affect the normal operation telegrams.

- As it does not occupy a physical address, the guard cannot be located in the ETS.
- 3 different versions available:
 - Highest security:
 - Programming telegrams are cut off.
 - It does not allow the use of the group monitor for diagnostic purposes.
 - The KNX system operates further as usual.
 - The protection can only cease by actually removing the hardware from the installation.
 - High security:
 - Programming telegrams are cut off.
 - It does allow the use of the group monitor for diagnostic purposes.
 - The KNX system operates further as usual.
 - The protection can only cease by actually removing the hardware from the installation.
 - User specific:
 - Using the EIBDoktor software, via the Bus, you can parameterise, activate or deactivate the different protection levels. This communication is hidden and encrypted.



| WEB CODE | ORDER Nr. | DESCRIPTION | LIST PRICE | P.G. |
|----------|--------------|----------------------------|------------|------|
| 8118 | E001-H017001 | KNXGUARD, HIGHEST SECURITY | 420,00 | 5 |
| 8119 | E001-H017002 | KNXGUARD, HIGH SECURITY | 420,00 | 5 |
| 8120 | E001-H017003 | KNXGUARD, USER SPECIFIC | 530,00 | 5 |

⌚ EIBAnalyzer

Diagnostic module for DIN-rail mounting that allows the recording of KNX telegrams in a USB stick (easy to plug in/out and exchangeable) for later examination and error detection. No need to leave a PC with the ETS at the site for the logging of telegrams during long time periods in order to detect punctual problems or to analyse the Bus traffic.

- 2GB USB-Stick included.
- Analysis of the data with the EIBDoktor software, also included.



| WEB CODE | ORDER Nr. | DESCRIPTION | LIST PRICE | P.G. |
|----------|--------------|-------------|------------|------|
| 5029 | E001-B902800 | EIBANALYZER | 680,00 | 5 |

⌚ ASCII Terminal

RS-232 bidirectional gateway with closed protocol

- Unlimited group addresses.
- All data point types supported.
- Own RS-232 protocol from manufacturer (not configurable).



| WEB CODE | ORDER Nr. | DESCRIPTION | LIST PRICE | P.G. |
|----------|--------------|--------------------|------------|------|
| 5163 | E001-H003011 | EIB ASCII TERMINAL | 640,00 | 5 |

BILTON



BILTON®

What makes us different, all the support for the KNX integrator.

LED Dimmer Sequencer Actuator



Dimmer actuator with outputs for the direct connection of LED lighting devices (no DMX, DALI gateways, etc. required). Since it has 3 independent channels, it allows a complete RGB control; also, it has special functions to create colour lighting effects. Available versions: constant voltage and constant current.

- 10 scenes per channel (this means, 10 RGB colors).
- Colour changing sequence (activated via a 1 bit object).
- Direct or progressive transition to new values.
- Delay time in switching on and off.
- Adjustable minimum and maximum brightness values.



| WEB CODE | ORDER Nr. | OUTPUT | DESCRIPTION | LIST PRICE | G.D. |
|----------|-----------|--------------------|------------------|------------|------|
| 9953 | S-24903 | VOLTAGE CONTROLLED | DIMMER LED STEEL | 379,00 | 7 |
| 9952 | C-03903 | CONSTANT CURRENT | DIMMER LED CURVE | 399,00 | 7 |

ELSNER



elsner[®]
elektronik

What makes us different, all the support for the KNX integrator.

④ Power Supply KNX PS640

640 mA KNX power supply with backlight display and operation buttons for the supervision of the line status, error diagnostic and Bus reset.

- Its display allows the real-time visualization of operating data:
 - Voltage and current Bus consumption.
 - Overload, overvoltage, short-circuit.
 - etc.
- Additional 24 VDC voltage output (not reduced), with up to 150 mA (apart from the 640mA for the Bus).
- PS640+ y PS640-IP versions also include communication objects so that the displayed values can be sent to the Bus.
- The PS640-IP version has Ethernet connection to be used as:
 - KNXnet/IP (Tunneling): IP Programmer for the ETS, and visualization gateway.
 - KNXnet/IP Routing: to link lines and/or areas via IP.



| WEB CODE | ORDER Nr. | DESCRIPTION | DATA TRANSFER TO DE BUS | KNXnet/IP | LIST PRICE | P.G. |
|----------|-----------|--------------|-------------------------|-----------|------------|------|
| 6331 | 70140 | KNX PS640 | NO | NO | 348,00 | 7 |
| 8136 | 70141 | KNX PS640+ | YES | NO | 428,00 | 7 |
| 9360 | 70142 | KNX PS640-IP | YES | YES | 630,00 | 7 |

④ Suntracer Basic

Compact weather station, with no moving parts.

- It sends information to the bus regarding:
 - Temperature.
 - Wind speed.
 - Precipitation.
 - Brightness.
 - Twilight.
- Various 1 bit thresholds for each and every measure mentioned before.
- Integrated logic functions:
 - 8 AND logic gates.
 - 8 OR logic gates.
 - 4 inputs per gate.
 - The output of each gate may optionally be configured as 1 bit or 2x 8 bits.
- Additional power supply required Two versions available:
 - 230VAC o 24VDC.



| WEB CODE | ORDER Nr. | DESCRIPTION | ADDITIONAL POWER SUPPLY | LIST PRICE | P.G. |
|----------|-----------|----------------------------|-------------------------|------------|------|
| 5667 | 3095 | SUNTRACER KNX BASIC 230VAC | 230VAC | 549,00 | 7 |
| 6117 | 3096 | SUNTRACER KNX BASIC 24VDC | 24VDC | 549,00 | 7 |

⌚ Suntracer

In addition to the functions of the Suntracer Basic model, this version also offers:

- Calculation of the exact position of the sun (azimuth and elevation are sent to the Bus).
- Setting of 5 position areas of the sun (each one has a communication object that indicates if the sun is in this area or not).
- Obtains the date and current time via DC77 radio signals.
- Week and annual time switch.



| WEB CODE | ORDER Nr. | DESCRIPTION | ADDITIONAL POWER SUPPLY | LIST PRICE | P.G. |
|----------|-----------|----------------------|-------------------------|------------|------|
| 5688 | 3090 | SUNTRACER KNX 230VAC | 230VAC | 799,00 | 7 |
| 8135 | 3091 | SUNTRACER KNX 24VDC | 24VDC | 799,00 | 7 |

⌚ Suntracer GPS

On top of the functions of the Suntracer model, Suntracer GPS also:

- Receives its GPS position.
- Obtains the date and current time from the GPS signal.
- Automatic control of up to 6 independent façades.



| WEB CODE | ORDER Nr. | DESCRIPTION | ADDITIONAL POWER SUPPLY | LIST PRICE | P.G. |
|----------|-----------|-------------------|-------------------------|------------|------|
| 9404 | 3093 | SUNTRACER KNX-GPS | 24VDC | 949,00 | 7 |

⌚ Blind Actuator for in-wall mounting



1-fold, in-wall mounting blind actuator, with the most complete application program available in the market. Available in different versions: with or without binary inputs, for 230VAC or 24VDC engines.

- Blind movement basic functions.
- Adjustable position of the blinds and Slat tracking for blinds according to the position of the sun.
- Forwarding of values as a façade controller.
- Master-slave function.
- Various security supervision and alarm objects (wind, rain, blocking, etc.).
- Reference movement.
- Movement limitation for safety purposes.
- Blocking depending on exterior and/or interior temperature.



| WEB CODE | ORDER Nr. | DESCRIPTION | TYPE OF ENGINE | NR. OF OUTPUTS | LIST PRICE | P.G. |
|----------|-----------|----------------------|----------------|----------------|------------|------|
| 6036 | 70135 | KNX S-UP 230 VAC | 230VAC | 0 | 105,00 | 7 |
| 6035 | 70133 | KNX S-B2-UP 230 VAC | 230VAC | 2 | 130,00 | 7 |
| 6034 | 70131 | KNX S-B4T-UP 230 VAC | 230VAC | 4 | 159,00 | 7 |
| 6037 | 70134 | KNX S-UP 24 VDC | 24VDC | 0 | 110,00 | 7 |
| 6039 | 70132 | KNX S-B2-UP 24 VDC | 24VDC | 2 | 135,00 | 7 |
| 6038 | 70130 | KNX S-B4T-UP 24 VDC | 24VDC | 4 | 169,00 | 7 |

KNX Touch One

5,7" Colour touch display with advanced functions for façades and HVAC control.

- Available with design frame in aluminium/graphite or white/grey.
- Surface mounting.
- Control of lights, dimmers, blinds, etc.
- Automatic functions for façade and HVAC control (ventilation, heating, air conditioning) that can be edited by the end user.
- Temperature and humidity measurement.
- Time switches.
- Scenes.
- 4 potential-free binary inputs (50m max. cable length).
- Integrated Bus Coupling Unit.
- Optionally, RF control remote with 8 channels:
 - Magnetic wall-mounting.
 - Available in aluminium or white colour.



| WEB CODE | ORDER Nr. | DESCRIPTION | COLOUR | LIST PRICE | P.G. |
|----------|-----------|---------------------|--------------------|------------|------|
| 10037 | 70195 | KNX TOUCH ONE WHITE | WHITE/GREY | 599,00 | 7 |
| 10038 | 70196 | KNX TOUCH ONE ALU | ALULMINIUM/GRAHITE | 599,00 | 7 |

| WEB CODE | ORDER Nr. | DESCRIPTION | LIST PRICE | P.G. |
|----------|-----------|--|------------|------|
| 10039 | 60511 | RR REMOTE CONTROL FOR TOUCH ONE, WHITE | 136,00 | 7 |
| 10040 | 60512 | RR REMOTE CONTROL FOR TOUCH ONE, ALUMINIUM | 136,00 | 7 |

KNX WS1000 Color

8,4" Colour touch display with advanced functions for façades and HVAC control.

- Same functionality as the KNX One Touch display, but extended number of functions.
- Optionally, interface for the connection of two analogue cameras.



| WEB CODE | ORDER Nr. | DESCRIPTION | COLOUR | LIST PRICE | P.G. |
|----------|-----------|------------------|--------------------|------------|------|
| 10062 | 70191 | KNX WS1000 WHITE | WHITE/GREY | 1.390,00 | 7 |
| 10063 | 70192 | KNX WS1000 ALU | ALULMINIUM/GRAHITE | 1.390,00 | 7 |

| WEB CODE | ORDER Nr. | DESCRIPTION | LIST PRICE | P.G. |
|----------|-----------|--|------------|------|
| 10039 | 60511 | RR REMOTE CONTROL FOR TOUCH ONE, WHITE | 136,00 | 7 |
| 10040 | 60512 | RR REMOTE CONTROL FOR TOUCH ONE, ALUMINIUM | 136,00 | 7 |
| 10064 | 60532 | INTERFACE FOR TWO ANALOGIC CAMERAS | 183,00 | 7 |

GEPRO



What makes us different, all the support for the KNX integrator.

KNX-Tab

KNX Push-buttons range with integrated Bus Coupling Unit. They are manufactured in aluminium, which makes them very robust. That is why they have become the ideal solution for public buildings, such as hospitals, sport centres, schools, etc. Customization is possible by pre-engraved label plates and key switch.

- Available with 8, 12, 16 or 32 push buttons.
- Push button functions: switch on/off, dimming, blinds, scenes, etc.
- The blocking of the push buttons can simultaneously trigger an action.
- Integrated buzzer adjustable via communication object.
- Status LED for each push button:
 - Modifiable per communication object.
 - Fixed or brief on/off switching, blinking.
 - Red/green/off.
- The front with customized engravings can be replaced.
- In-wall mounting box included.



| WEB CODE | ORDER Nr. | PUSH BUTTONS | MOUNTING | LIST PRICE | P.G. |
|----------|----------------|--------------|-------------|------------|------|
| 10053 | KNX-TAB 8 UP | 8 | IN-WALL | 535,00 | 5 |
| 10054 | KNX-TAB 8 HW | 8 | CAVITY WALL | 540,00 | 5 |
| 10055 | KNX-TAB 8 APAL | 8 | SURFACE | 695,00 | 5 |

* For more information about the versions with 12, 16 and 32 push buttons, please visit our web site or contact us via telephone or e-mail.

IDDERO



iddero

What makes us different, all the support for the KNX integrator.

HC1-KNX



5,7" colour Touch Panel for the visualization and control of KNX systems with a wide-ranging and full functionality, a very attractive user interface and a exceptionally easy to use by the end customer. In addition, its consumption is extremely low: 6W in operation, 1W in stand-by state.

- 5,7" Display, 4096 colours, 320x240 resolution.
- Methacrylate design frames available in various colours. *
- Browsing based on plans, areas and function menus.
- 4 access levels protected with password, to restrain certain functions according to the different levels.
- Scenes, time schedules, logic functions, time switches by range of dates, presence simulation, etc.
- Management of technical alarms, with acoustic signals and events logging.
- Integrated thermostat.
- KNX time switch with backup battery.
- Buzzer and status LEDs.
- Integrated web server for remote access from standard web browsers, even from PDAs, iPhones, etc.
- RS-485 port for expansion modules (e.g. GSM).
- Firmware configuration and update via IP.
- Integrated Bus Coupling Unit.
- Power supply included.



| WEB CODE | ORDER Nr. | DESCRIPTION | LIST PRICE | P.G. |
|----------|--------------|--|------------|------|
| 9171 | DW-HC1-KNX-0 | TOUCH PANEL HC1-KNX | 820,00 | 6 |
| 9172 | DW-HC1-MKG | GREY METHACRYLATE DESIGN FRAME | 30,00 | 6 |
| 9173 | DW-HC1-MKA | ANODIZED ALUMINIUM DESIGN FRAME | 55,00 | 6 |
| 9174 | DW-HC1-MKC | WHITE CRYSTAL DESIGN FRAME | 75,00 | 6 |
| 10283 | DW-HC1-MKB | MATT BLACK METHACRYLATE DESIGN FRAME | 30,00 | 6 |
| 10319 | DW-HC1-MKW | WHITE METHACRYLATE DESIGN FRAME | 30,00 | 6 |
| 10320 | DW-HC1-MKS | STAINLESS STEEL DESIGN FRAME | 60,00 | 6 |
| 8777 | E-C557 | IN-WALL MOUNTING BOX FOR HC1-KNX AND HC2-KNX | 10,00 | 6 |

* For enquiries regarding customized design frames (colours and sizes), please contact us.

HC2-KNX

7" colour Touch Panel in panoramic format, specially conceived to guarantee the highest quality and hardware durability. On top of the full functionality of HC1-KNX, it has:

- 7" Panoramic screen (15:9), 16.7 million colours, 800x480 resolution.
- Direct integration (no additional hardware required) of IP Helios and Mobotix door communication systems.
- Integration of Fermax ADS or conventional 4+N door communication systems using additional hardware.
- Integration of IP cameras.
- Hardware and software advanced solution to reduce echo (for the purposes of the door communication system).
- Integrated stereo speakers and microphone.
- Same in-wall mounting box as HC1-KNX.

| WEB CODE | ORDER Nr. | DESCRIPTION | LIST PRICE | P.G. |
|----------|--------------|--|------------|------|
| 10193 | DW-HC2-KNX-0 | TOUCH PANEL HC2-KNX | 1.120,00 | 6 |
| 10049 | DW-HC2-MKG | GREY METHACRYLATE DESIGN FRAME | 30,00 | 6 |
| 10050 | DW-HC2-MKA | ANODIZED ALUMINIUM DESIGN FRAME | 55,00 | 6 |
| 10051 | DW-HC2-MKC | WHITE CRYSTAL DESIGN FRAME | 75,00 | 6 |
| 10285 | DW-HC2-MKB | MATT BLACK METHACRYLATE DESIGN FRAME | 30,00 | 6 |
| 10321 | DW-HC2-MKW | WHITE METHACRYLATE DESIGN FRAME | 30,00 | 6 |
| 10322 | DW-HC2-MKS | STAINLESS STEEL DESIGN FRAME | 60,00 | 6 |
| 8777 | E-C557 | IN-WALL MOUNTING BOX FOR HC1-KNX AND HC2-KNX | 10,00 | 6 |

* For enquiries regarding customized design frames (colours and sizes), please contact us.



HC2L-KNX

Same functionality as HC2-KNX touch panel, but bigger sized screen: 10,4"

- It can also perform all functions of the HC1-KNX version.
- 10.4" screen, 16.7 million colours, 800x600 resolution.
- Direct integration (no additional hardware required) of IP Helios and Mobotix door communication systems.
- Integration of Fermax ADS or conventional 4+N door communication systems using additional hardware.
- Integration of IP cameras.
- Hardware and software advanced solution to reduce echo (for the purposes of the door communication system).
- Integrated stereo speakers and microphone.



| WEB CODE | ORDER Nr. | DESCRIPTION | LIST PRICE | P.G. |
|----------|---------------|--------------------------------------|------------|------|
| 10317 | DW-HC2L-KNX-0 | TOUCH PANEL HC2L-KNX | 1.750,00 | 6 |
| 10323 | DW-HC2L-MKG | GREY METHACRYLATE DESIGN FRAME | 50,00 | 6 |
| 10326 | DW-HC2L-MKA | ANODIZED ALUMINIUM DESIGN FRAME | 85,00 | 6 |
| 10328 | DW-HC2L-MKC | WHITE CRYSTAL DESIGN FRAME | 125,00 | 6 |
| 10325 | DW-HC2L-MKB | MATT BLACK METHACRYLATE DESIGN FRAME | 50,00 | 6 |
| 10324 | DW-HC2L-MKW | WHITE METHACRYLATE DESIGN FRAME | 50,00 | 6 |
| 10327 | DW-HC2L-MKS | STAINLESS STEEL DESIGN FRAME | 95,00 | 6 |
| 10318 | E-C610 | IN-WALL MOUNTING BOX FOR HC2L-KNX | 25,00 | 6 |

* For enquiries regarding customized design frames (colours and sizes), please contact us.

DW-GSM

GSM extension module for the Iddero touch panels that allows the remote warnings and control of KNX systems via SMS and missed calls.

- Connection to the RS485 port of the Iddero touch panels.
- Carrying out actions, status enquiries and receipt of alerts via SMS.
- Sends commands via missed calls.
- Telephone book for authorized numbers with configurable permits.
- Status LED for the GSM network.



| WEB CODE | ORDER Nr. | DESCRIPTION | LIST PRICE | P.G. |
|----------|-----------|----------------------|------------|------|
| 9592 | DW-GSM | GSM EXTENSION MODULE | 250,00 | 6 |

IPAS



What makes us different, all the support for the KNX integrator.

ComBridge NCI

KNXnet/IP Gateway for the connection to KNX systems via TCP/IP. It can be used as an interface for CBS visualizations thanks to its two independent connections (tunnelling and object server) without interrupting the ETS connection.

- KNX programming and diagnostic via the ETS software (using the tunnelling connection).
- IP Gateway for the ComBridge Studio Evolution visualization software (using the object server or the tunnelling connection).
- IP address obtained via DHCP or manually assigned in the ETS.



| WEB CODE | ORDER Nr. | DESCRIPTION | LIST PRICE | P.G. |
|----------|-------------|------------------------------|------------|------|
| 5613 | 3622-141-07 | COMBRIDGE NCI TPC/IP GATEWAY | 275,00 | 7 |

ComBridge MCG

In addition to all the ComBridge NCI features, this device also works as a KNX logic controller.

- Same functionality as the ComBridge NCI.
- KNX time sender (sends date and time to the bus) with internal battery to keep date/time in case of power failure.
- It can obtain the time from NTP servers or be manually introduced.
- Astronomical calculation (obtains the sunset and sunrise time for each day of the year).
- 80 communication objects with configurable DPT for the controller functionality.
- Weekly, annual and one-time event calendar with 100 time switches and 50 periods.
- 30 events.
- Scenes with up to 200 actions.
- 30 logic gates.



| WEB CODE | ORDER Nr. | DESCRIPTION | LIST PRICE | P.G. |
|----------|-------------|------------------------------|------------|------|
| 3805 | 3622-141-01 | COMBRIDGE MCG TPC/IP GATEWAY | 645,00 | 7 |

ComBridge WCI

KNXnet/IP Gateway for the connection to KNX systems via TCP/IP. It contains an integrated web server that allows the visualizations of small systems from any web browser.

- KNX programming and diagnostic via the ETS software (using the tunnelling connection).
- IP Gateway for the ComBridge Studio Evolution visualization software (using the object server or the tunnelling connection).
- IP address obtained via DHCP or manually assigned in the ETS.
- Web visualization of 40 KNX functions, automatically generated once parameterised in the ETS.
- Compatible with web browsers from PCs, PDAs, iPhones and other Smartphones.

| WEB CODE | ORDER Nr. | DESCRIPTION | LIST PRICE | P.G. |
|----------|-------------|-------------|------------|------|
| 4743 | 3622-141-08 | WCI | 408,00 | 7 |



DaliControl SC64 IP

Allows controlling the DALI lighting bus from KNX systems. Thanks to its Ethernet connection and integrated web server, it facilitates the commissioning process of the DALI Bus via the integrated web page.

- Operates as a DALI master.
- Complete control of the 16 Dali groups.
- Single function control (switching, dimming or set defined value) of each one of the 64 individual ECGs.
- Launching and saving of the 16 DALI light scenes.
- 2 binary inputs.
- Error status of lamps and ECGs available for each of the 64 ECGs.
- Integrated web for the commissioning of the DALI bus compatible with PDAs and Smartphones.



| WEB CODE | ORDER Nr. | DESCRIPTION | LIST PRICE | P.G. |
|----------|-------------|---------------------|------------|------|
| 8208 | 3927-145-52 | DALICONTROL SC64 IP | 552,00 | 7 |

Axesso

KNX access control system based on chip cards or transponders for hotels and office buildings. Its intuitive web management software allows users registration, permission assignment, presence control (time tracking), access and time reporting, alarms, etc. In addition, since they are KNX card readers, it is possible to assign different scenes to the different users (cards).

The readers are completely autonomous (after a new card is programmed, the PC with Axesso is not required for the card readers to recognize the assigned access codes). The data sent through the KNX bus is encrypted in order to avoid any unauthorised attempt to manipulate the door access by sending KNX telegrams.

- Robust card readers made of aluminium.
- Different colour-finishings.
- Available in 2 versions: chip (insertion) or transponder (proximity).
- With two, one or no push buttons.
- Up to 3 status LEDs.
- Binary output for door opener (12-24 VAC/VDC).
- 2 binary inputs.
- The magnetic contact located in the in-wall mounting box, combined with the binary output, allows the detection of any attempt to remove card reader.
- Customized engravings with no additional cost (e.g.: name of the company or room number).
- Integrated Bus Coupling Unit.

Chip card readers

| WEB CODE | ORDER Nr. | DESCRIPTION | Nr. OF BUTTONS | LIST PRICE | P.G. |
|----------|-------------|------------------|----------------|------------|------|
| 9405 | 3706-161-02 | CHIP CARD READER | 0 | 289,00 | 7 |
| 9406 | 3706-161-04 | CHIP CARD READER | 1 | 299,00 | 7 |
| 9407 | 3706-161-06 | CHIP CARD READER | 2 | 309,00 | 7 |

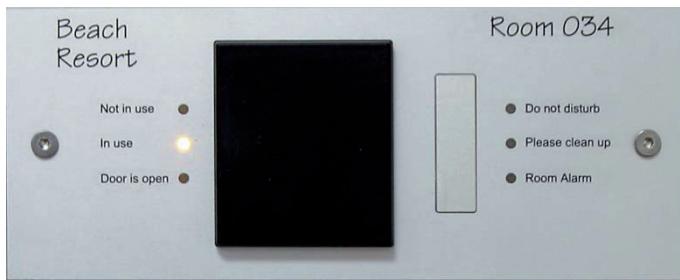


Transponder card readers

| WEB CODE | ORDER Nr. | DESCRIPTION | Nr. OF BUTTONS | LIST PRICE | P.G. |
|----------|-------------|--------------------------|----------------|------------|------|
| 9408 | 3707-162-14 | TRANSPOUNDER CARD READER | 0 | 329,00 | 7 |
| 9409 | 3707-162-16 | TRANSPOUNDER CARD READER | 1 | 339,00 | 7 |
| 10716 | 3707-162-18 | TRANSPOUNDER CARD READER | 2 | 349,00 | 7 |

④ Axesso

Special card readers for hotels

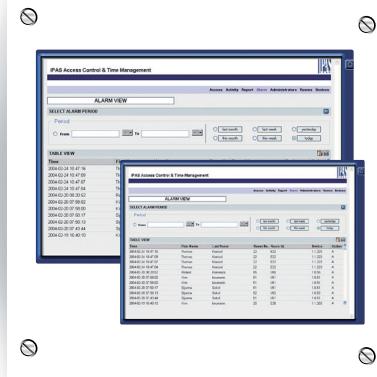


* Contact us for more information

Software

| WEB CODE | ORDER Nr. | DESCRIPTION | Nr.OF USERS | LIST PRICE | G.D |
|----------|------------|----------------|-------------|------------|-----|
| 3790 | 3705-39-02 | AXESSO LICENSE | 10 | 990,00 | 1 |
| 3791 | 3705-39-03 | AXESSO LICENSE | 50 | 1.990,00 | 1 |
| 3792 | 3705-39-04 | AXESSO LICENSE | 100 | 2.990,00 | 1 |
| 3793 | 3705-39-05 | AXESSO LICENSE | 500 | 3.990,00 | 1 |

The price of all licenses include the programming device



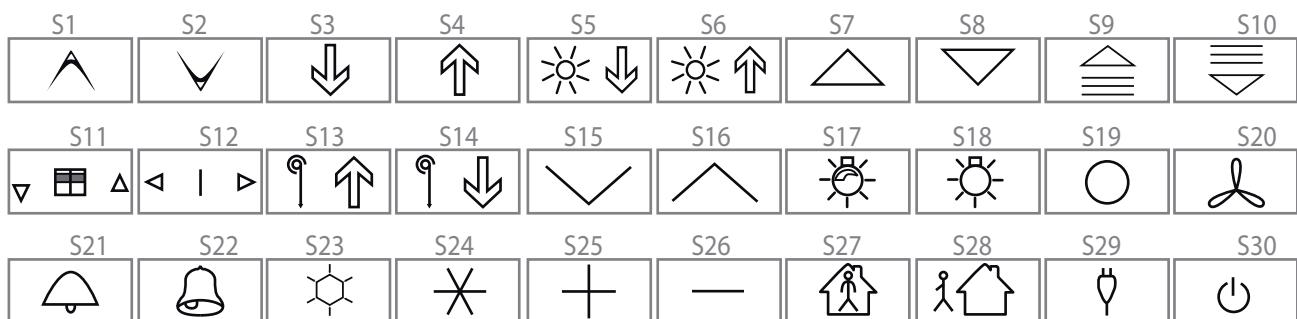
Accessories

| WEB CODE | ORDER Nr. | DESCRIPTION | LIST PRICE | P.G. |
|----------|-------------|---------------------------------------|------------|------|
| 3787 | 3705-19-01 | CHIP CARD | 3,10 | 5 |
| 6023 | 3705-19-02 | TRANSPOUNDER CARD | 6,20 | 5 |
| 3788 | 3705-19-03 | CHIP CARDS PROGRAMMER | 74,00 | 5 |
| 8244 | 3705-19-04 | TRANSPOUNDER CARD PROGRAMMER | 239,00 | 5 |
| 3783 | 3705-191-01 | PLASTIC IN-WALL MOUNTING BOX | 25,00 | 5 |
| 8243 | 3705-191-02 | GALVANIZED STEEL IN-WALL MOUNTING BOX | 32,00 | 5 |
| 8894 | 3705-191-05 | GALVANIZED STEEL SURFACE MOUNTING BOX | 45,00 | 5 |
| 3784 | 3705-191-03 | SECURITY SCREW SET + TOOL | 64,00 | 5 |
| 3785 | 3705-191-04 | SECURITY SCREW SET | 6,00 | 5 |

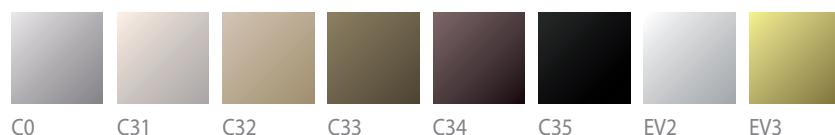
④ Axesso



Engraving options for keys



Available colour-finishings



⌚ Largo Push-buttons

The Largo push-buttons are manufactured in aluminium or stainless steel, which makes them specially suitable for very busy locations. Customized engravings can be ordered, for example indicating the room number or the name of the company or the owner. Engravings on keys and under them to indicate their function can also be requested.

- The aluminium versions can be chosen with flush or highlighted keys. Different colour-finishings are available for aluminium versions.
- Available with 6, 8, 10 or 12 keys.
- Versions with thermostat, display and LEDs, in which it is easy to recognize the status of the thermostat no need to check the display.
- Optionally, they can include status LEDs in each key or pair of keys (only for versions without thermostat).
- Integrated Bus Coupling Unit.



Aluminium push-buttons Largo series with highlighted keys

| WEB CODE | ORDER Nr. | Nr. OF BUTTONS | THERMOSTAT | SIZE | LIST PRICE | P.G. |
|----------|------------------|----------------|-------------------------------|-----------|------------|------|
| 10530 | 60601-1121-02-0B | 6 | SIN THERMOSTATO | 80x160 mm | 289,00 | 5 |
| 10536 | 60601-1121-09-0B | 8 | SIN THERMOSTATO | 80x160 mm | 299,00 | 5 |
| 10542 | 60601-1121-13-0B | 10 | SIN THERMOSTATO | 80x200 mm | 319,00 | 5 |
| 10544 | 60601-1121-18-0B | 12 | SIN THERMOSTATO | 80x200 mm | 329,00 | 5 |
| 10533 | 60601-1121-06-0B | 6 | TERMOSTATO CON LEDS | 80x160 mm | 359,00 | 5 |
| 10539 | 60601-1121-08-0B | 8 | TERMOSTATO CON LEDS | 80x160 mm | 369,00 | 5 |
| 10682 | 60601-1121-19-0B | 10 | TERMOSTATO CON LEDS | 80x200 mm | 379,00 | 5 |
| 10686 | 60601-1121-20-0B | 12 | TERMOSTATO CON LEDS | 80x200 mm | 389,00 | 5 |
| 10651 | 60601-1121-07-0B | 6 | TERMOSTATO CON DISPLAY Y LEDS | 80x200 mm | 389,00 | 5 |
| 10656 | 60601-1121-12-0B | 8 | TERMOSTATO CON DISPLAY Y LEDS | 80x200 mm | 399,00 | 5 |
| 10654 | 60601-1121-16-0B | 10 | TERMOSTATO CON DISPLAY Y LEDS | 80x212 mm | 409,00 | 5 |
| 10660 | 60601-1121-17-0B | 12 | TERMOSTATO CON DISPLAY Y LEDS | 80x212 mm | 419,00 | 5 |

⌚ Largho Push-buttons

Aluminium push-buttons Largho series with flush keys

| WEB CODE | ORDER Nr. | Nr. OF BUTTONS | THERMOSTAT | SIZE | LIST PRICE | P.G. |
|----------|-----------------|----------------|----------------------------------|-----------|------------|------|
| 10531 | 60601-112-02-0B | 6 | WITHOUT THERMOSTAT | 80x160 mm | 289,00 | 5 |
| 10537 | 60601-112-09-0B | 8 | WITHOUT THERMOSTAT | 80x160 mm | 299,00 | 5 |
| 10543 | 60601-112-13-0B | 10 | WITHOUT THERMOSTAT | 80x200 mm | 319,00 | 5 |
| 10618 | 60601-112-18-0B | 12 | WITHOUT THERMOSTAT | 80x200 mm | 329,00 | 5 |
| 10534 | 60601-112-06-0B | 6 | THERMOSTAT WITH LEDs | 80x160 mm | 359,00 | 5 |
| 10540 | 60601-112-08-0B | 8 | THERMOSTAT WITH LEDs | 80x160 mm | 369,00 | 5 |
| 10683 | 60601-112-19-0B | 10 | THERMOSTAT WITH LEDs | 80x200 mm | 379,00 | 5 |
| 10687 | 60601-111-20-0B | 12 | THERMOSTAT WITH LEDs | 80x200 mm | 389,00 | 5 |
| 10652 | 60601-112-07-0B | 6 | THERMOSTAT WITH DISPLAY AND LEDs | 80x200 mm | 389,00 | 5 |
| 10657 | 60601-112-12-0B | 8 | THERMOSTAT WITH DISPLAY AND LEDs | 80x200 mm | 399,00 | 5 |
| 10655 | 60601-112-16-0B | 10 | THERMOSTAT WITH DISPLAY AND LEDs | 80x212 mm | 409,00 | 5 |
| 10661 | 60601-112-17-0B | 12 | THERMOSTAT WITH DISPLAY AND LEDs | 80x212 mm | 419,00 | 5 |

Stainless steel push-buttons Largho series

| WEB CODE | ORDER Nr. | Nr. OF BUTTONS | THERMOSTAT | SIZE | LIST PRICE | P.G. |
|----------|-----------------|----------------|----------------------------------|-----------|------------|------|
| 10532 | 60601-111-02-0B | 6 | WITHOUT THERMOSTAT | 80x160 mm | 335,00 | 5 |
| 10538 | 60601-111-09-0B | 8 | WITHOUT THERMOSTAT | 80x160 mm | 345,00 | 5 |
| 10619 | 60601-111-13-0B | 10 | WITHOUT THERMOSTAT | 80x200 mm | 355,00 | 5 |
| 10650 | 60601-111-18-0B | 12 | WITHOUT THERMOSTAT | 80x200 mm | 375,00 | 5 |
| 10535 | 60601-111-06-0B | 6 | THERMOSTAT WITH LEDs | 80x160 mm | 395,00 | 5 |
| 10541 | 60601-111-08-0B | 8 | THERMOSTAT WITH LEDs | 80x160 mm | 415,00 | 5 |
| 10648 | 60601-111-19-0B | 10 | THERMOSTAT WITH LEDs | 80x200 mm | 425,00 | 5 |
| 10688 | 60601-111-20-0B | 12 | THERMOSTAT WITH LEDs | 80x200 mm | 435,00 | 5 |
| 10653 | 60601-111-07-0B | 6 | THERMOSTAT WITH DISPLAY AND LEDs | 80x200 mm | 435,00 | 5 |
| 10658 | 60601-111-12-0B | 8 | THERMOSTAT WITH DISPLAY AND LEDs | 80x200 mm | 445,00 | 5 |
| 10659 | 60601-111-16-0B | 10 | THERMOSTAT WITH DISPLAY AND LEDs | 80x212 mm | 455,00 | 5 |
| 10662 | 60601-111-17-0B | 12 | THERMOSTAT WITH DISPLAY AND LEDs | 80x212 mm | 468,00 | 5 |

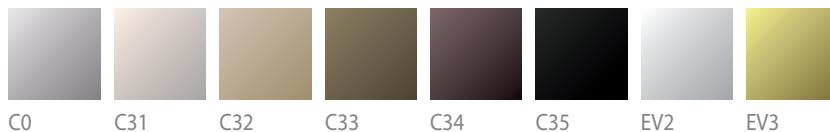
① Largo Push-buttons



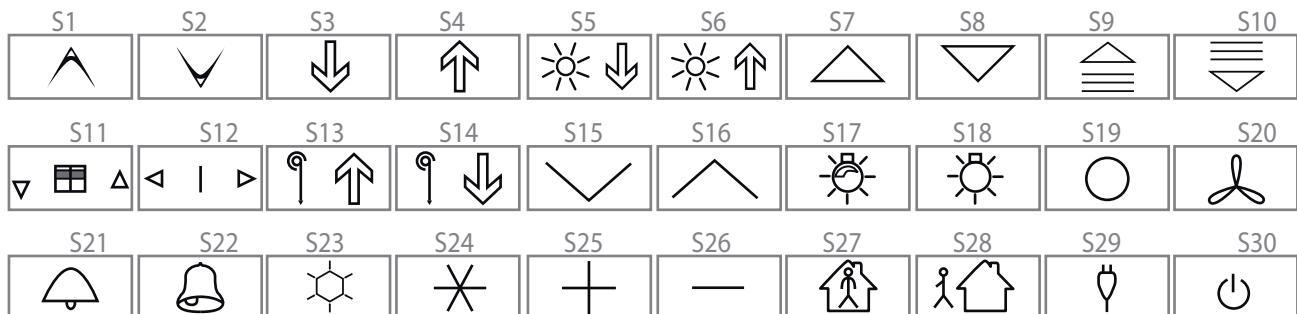
Accessories

| WEB CODE | ORDER Nr. | DESCRIPTION | LIST PRICE | P.G. |
|----------|--------------|---|------------|------|
| 5850 | 60601-191-01 | PLASTIC IN-WALL MOUNTING BOX FOR 160MM PUSH BUTTONS | 9,90 | 5 |
| 5851 | 60601-191-02 | STEEL IN-WALL MOUNTING BOX FOR 160MM PUSH BUTTONS | 25,90 | 5 |
| 5852 | 60601-191-03 | STEEL IN-WALL MOUNTING BOX FOR 200MM PUSH BUTTONS | 27,90 | 5 |
| 5853 | 60601-191-04 | STEEL IN-WALL MOUNTING BOX FOR 212MM PUSH BUTTONS | 28,90 | 5 |

Available colour-finishings (for aluminium versions)



Engraving options for keys



Free for aluminium push-buttons

Please, enquire price for stainless steel push-buttons

ComBridge Studio Evolution

Over 10 years of existence and multiple installations of all types (from basic homes to hotels and even airports) have turned Combridge Studio in one of the most appreciated KNX management and visualization software programs in the market. Keeping the software core intact, its graphic interface has been renewed to meet the new market demands and needs, taking up the name of Combridge Studio Evolution.

- Embedded hardware with pre-installed software.
- Flash-based Web visualization (independent from the operating system).
- Static and animated icons that can also be rotated or redimensioned with no deterioration of the quality of the image.
- Browsing based on desktops, windows and gadgets.
- Management of users and permits.
- Allows control of multiple independent systems from a single visualization.
- Requires an IP Combridge gateway.
- The basic version includes:
 - Weekly and annual time switches.
 - Scenes.
 - Presence simulation.
 - Alarms services.
 - Warnings via e-mail.
 - Logic module with graphic editor.
 - Mathematical operations.
 - Weather forecast (via Internet).
 - Integration of IP cameras.
 - Creation of customized charts.
 - Slide show of own images.
 - Basic energy management.
 - License for 3 users.
 - License for 1 gateway.
 - Etc.
- On top of these, there are many upgrade options (see price table).



① ② ③ ④

| WEB CODE | ORDER Nr. | DESCRIPTION | LIST PRICE | P.G. |
|----------|-------------|----------------------------|------------|------|
| 10019 | 63101-32-40 | COMBRIDGE STUDIO EVOLUTION | 1.995,00 | 1 |

⌚ ComBridge Studio Evolution



| WEB CODE | ORDER Nr. | ADDITIONAL MODULES | LIST PRICE | P.G. |
|----------|-------------|---------------------------|------------|------|
| 10681 | 63101-32-41 | SMART METERING | 440,00 | 1 |
| 10028 | 63101-32-51 | PROJECTOR CONTROL | 280,00 | 1 |
| 10030 | 63101-32-52 | RUSOUND MULTIROOM CONTROL | 870,00 | 1 |
| 5694 | 63101-32-53 | SQUEZZE PROTOCOL | 390,00 | 1 |
| 10031 | 63101-32-61 | BACNET | 995,00 | 1 |
| 10032 | 63101-32-74 | OPC SERVER | 635,00 | 1 |
| 6124 | 63101-32-78 | OPC SERVER EXTENSION | 260,00 | 1 |
| 10033 | 63101-32-75 | OPC CLIENT | 490,00 | 1 |
| 10034 | 63101-32-62 | MOD-BUS | 220,00 | 1 |
| 4402 | 63101-32-76 | 5 USERS EXTENSION | 250,00 | 1 |
| 6123 | 63101-32-77 | 5 GATEWAYS EXTENSION | 250,00 | 1 |

MDT



MDT®
Gebäude
Automation

What makes us different, all the support for the KNX integrator.

Power Supplies

- 160, 320 and 640 mA versions.
- Status LEDs: normal operation, reset (short circuit) and overload.
- Reset button.
- 3 year warranty.



| WEB CODE | ORDER Nr. | DESCRIPTION | CHOKE FREE OUTPUT | SIZE | LIST PRICE | P.G. |
|----------|-------------|------------------------|-------------------|---------------|------------|------|
| 10149 | STV-0160.01 | KNX POWER SUPPLY 160mA | NO | 4 DIN MODULES | 134,00 | 7 |
| 9753 | STV-0320.01 | KNX POWER SUPPLY 320mA | NO | 4 DIN MODULES | 184,00 | 7 |
| 9754 | STV-0640.01 | KNX POWER SUPPLY 640MA | YES | 6 DIN MODULES | 249,00 | 7 |

Switch Actuators

- Manual operation (power supply required).
- LED indicators for each gang.
- Time functions (switch-on/switch-off delay, staircase light function).
- Independent blocking for each channel.
- 8 scenes per channel.
- AND/OR Logic function for each channel with up to 2 additional objects.
- 3 year warranty.



| WEB CODE | ORDER Nr. | Nr. OF OUTPUTS | CURRENT | C-LOAD | TAMAÑO | LIST PRICE | P.G. |
|----------|-------------|----------------|---------|--------|----------------|------------|------|
| 9734 | AKK-0810.01 | 8 | 10A | NO | 4 DIN MODULES | 234,00 | 7 |
| 9735 | AKS-0810.01 | 8 | 10A | NO | 4 DIN MODULES | 308,00 | 7 |
| 9736 | AKS-0816.01 | 8 | 16A | NO | 4 DIN MODULES | 322,00 | 7 |
| 9732 | AKI-0816.01 | 8 | 16A | YES | 8 DIN MODULES | 344,00 | 7 |
| 9737 | AKS-1210.01 | 12 | 10A | NO | 12 DIN MODULES | 372,00 | 7 |
| 9738 | AKS-1216.01 | 12 | 16A | NO | 12 DIN MODULES | 388,00 | 7 |
| 9733 | AKI-1216.01 | 12 | 16A | YES | 12 DIN MODULES | 412,00 | 7 |
| 9731 | AKK-1610.01 | 16 | 10A | NO | 8 DIN MODULES | 348,00 | 7 |

Shutter Actuators

- For shutter motors of up to 600W.
- Manual operation (power supply required).
- LED indicators for each gang.
- One of the best application programs in the market with multiple functions and communication objects.
- 3 year warranty.



| WEB CODE | ORDER Nr. | DESCRIPTION | Nr. OF OUTPUTS | SIZE | LIST PRICE | P.G. |
|----------|-------------|-------------------------|----------------|---------------|------------|------|
| 9751 | JAL-0410.01 | SHUTTER ACTUATOR 4-FOLD | 4 | 4 DIN MODULES | 234,00 | 7 |
| 9752 | JAL-0810.01 | SHUTTER ACTUATOR 8-FOLD | 8 | 8 DIN MODULES | 348,00 | 7 |

Binary Inputs

- Versions for potential-free contact, 24VAC/DC and 230VAC.
- LED indicators for each gang.
- Switching, dimming, shutters, scenes and counting of pulses.
- Possibility of 1-button control of dimmers and shutters.
- Operation with short/long button push (for 2 x 1 bit independent functions).
- Independent blocking for each channel.
- 3 AND/OR logic functions:
 - In addition to its inputs, two additional external objects can be involved in each logic function.
 - Inputs/outputs inversion possible.
 - Output options: 1 bit or a scene (1 byte).
 - Etc.
- 3 year warranty.



| WEB CODE | ORDER Nr. | Nr. OF INPUTS | TYPE OF INPUTS | SIZE | LIST PRICE | P.G. |
|----------|-------------|---------------|----------------|---------------|------------|------|
| 9745 | BE-08000.01 | 8 | POTENCIAL-FREE | 4 DIN MODULES | 228,00 | 7 |
| 9746 | BE-08024.01 | 8 | 24VAC/DC | 4 DIN MODULES | 228,00 | 7 |
| 9747 | BE-08230.01 | 8 | 230VAC | 4 DIN MODULES | 228,00 | 7 |
| 9748 | BE-16000.01 | 16 | POTENCIAL-FREE | 8 DIN MODULES | 348,00 | 7 |
| 9749 | BE-16024.01 | 16 | 24VAC/DC | 8 DIN MODULES | 348,00 | 7 |
| 9750 | BE-16230.01 | 16 | 230VAC | 8 DIN MODULES | 348,00 | 7 |

Push-button Interfaces

- Each output can be set as:
 - Binary input.
 - Output for low current LED (fix or blinking).
- Switching, dimming, shutters, scenes and counting of pulses.
- Possibility of 1-button control of dimmers and shutters.
- Operation with short/long button push (for 2 x 1 bit independent functions).
- Independent blocking for each channel.
- 3 AND/OR logic functions:
 - In addition to its inputs, two additional external objects can be involved in each logic function.
 - Inputs/outputs inversion possible.
 - Output options: 1 bit or a scene (1 byte).
 - Etc.
- 3 year warranty.

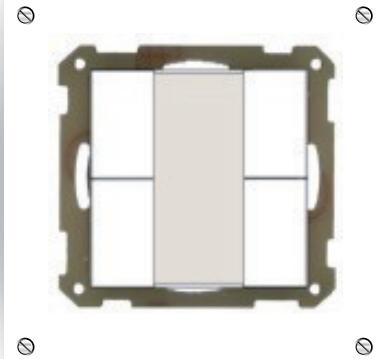


| WEB CODE | ORDER Nr. | DESCRIPTION | Nr. OF INPUTS | LIST PRICE | P.G. |
|----------|-------------|----------------------------|---------------|------------|------|
| 9739 | BE-02001.01 | UNIVERSAL INTERFACE 2-FOLD | 2 | 49,00 | 7 |
| 9743 | BE-04001.01 | UNIVERSAL INTERFACE 4-FOLD | 4 | 68,00 | 7 |

Push Buttons

KNX Push Button Range, great value for money.

- Versions available: 2-, 4-, 6- and 8-fold.
- Switching, dimming, shutters and scenes.
- Possibility of 1-button control of dimmers and shutters.
- Operation with short/long button push (for 2 x 1 bit independent functions).
- Independent blocking for each channel.
- Fits all standard 55x55 mm frames.
- Integrated bus coupling unit.
- On top of that, the Plus version offers:
 - Orientation LED that can be controlled from an external communication object.
 - Status LED for each rocker:
 - It can be configured to go off or glow green or red in case the object value is "1", but also when it is "0".
 - It can be controlled from an external communication object.
 - 4 AND/OR logic functions:
 - In addition to its inputs, two additional external objects can be involved in each logic function.
 - Inputs/outputs inversion possible.
 - Output options: 1 bit or a scene (1 byte).
 - Etc.
- 3 years warranty.



| WEB CODE | ORDER Nr. | SIZE | DESCRIPTION | LIST PRICE | P.G. |
|----------|--------------|------|-----------------------------|------------|------|
| 9978 | BE-TA5502.01 | 2 | KNX PUSH BUTTON 2-FOLD | 75,00 | 7 |
| 9979 | BE-TA5504.01 | 4 | KNX PUSH BUTTON 4-FOLD | 85,00 | 7 |
| 9980 | BE-TA5506.01 | 6 | KNX PUSH BUTTON 6-FOLD | 95,00 | 7 |
| 9981 | BE-TA5508.01 | 8 | KNX PUSH BUTTON 8-FOLD | 105,00 | 7 |
| 9982 | BE-TA55P2.01 | 2 | KNX PUSH BUTTON 2-FOLD PLUS | 102,00 | 7 |
| 9983 | BE-TA55P4.01 | 4 | KNX PUSH BUTTON 4-FOLD PLUS | 112,00 | 7 |
| 9984 | BE-TA55P6.01 | 6 | KNX PUSH BUTTON 6-FOLD PLUS | 122,00 | 7 |
| 9985 | BE-TA55P8.01 | 8 | KNX PUSH BUTTON 8-FOLD PLUS | 132,00 | 7 |

TCI



tci

What makes us different, all the support for the KNX integrator.

AMENA

Touch Panel PC for built-in mounting, ready to use with any external visualization software of your choice. Consumption: only 4W

- Display sizes available: 3.5" y 7".
- ARM9 400MHz CPU.
- 128MB System-Memory.
- 128MB Storage-Memory.
- The 7" version includes handsfree intercom.
- Optionally, PoE (Power-over-Ethernet).
- Optionally, integrated WLAN in the 7" version.
- Ethernet 10/100Mbps.
- USB 2.0.
- Integrated microphone and loudspeakers.
- Integrated brightness and temperature sensors available.



| WEB CODE | ORDER Nr. | SIZE | DESCRIPTION | LIST PRICE | P.G. |
|----------|------------------|------|------------------------------|------------|------|
| 10084 | AMENA35 BASE-EOS | 3.5" | 3.5", WINCE TOUCH PANEL | 640,00 | 6 |
| 10711 | AMENA35 POE-EOS | 3.5" | 3.5", WINCE, POE TOUCH PANEL | 670,00 | 6 |
| 10086 | AMENA70 BASE-EOS | 7" | 7", WINCE TOUCH PANEL | 830,00 | 6 |
| 10087 | AMENA70 POE-EOS | 7" | 7", WINCE, POE TOUCH PANEL | 860,00 | 6 |
| 10088 | AMENA70 WLAN-EOS | 7" | 7", WINCE, WLAN TOUCH PANEL | 880,00 | 6 |

* For more information about the design frames and other upgrade options, please visit our web site or contact us via telephone or e-mail

MURA

Ultra flat Touch Panel PC with panoramic screen for built-in / flush mounting. The PoE option allows its full operation via network cable (no need of additional cables or power supplies) Consumption: only 11W.

- Display sizes available: 8.4", 15" y 19".
- Special 15" version for vertical (portrait) mounting.
- HDD or flash disk (depending on the operating system).
- Ethernet 10/100/1000Mbps.
- USB 2.0.
- Upgrade options: Push-to-Talk, integrated webcam, etc.
- Mounting box, power supply and operating system required.



⌚ Mura

| WEB CODE | ORDER Nr. | SIZE | MICRO | RAM | POWER SUPPLY | LIST PRICE | P.G. |
|----------|-----------------|------|------------------|--------|--------------|------------|------|
| 6061 | 8MURA(R2) | 8.4" | AMD, 500 MHz | 512 MB | 12VDC | 1.840,00 | 5 |
| 10712 | 8MURA(R2) SUP | 8.4" | ATOM 1.6 GHz | 1 GB | 18-36VDC | 2.140,00 | 5 |
| 10713 | 15MURA(HR2) | 15" | ATOM 1.1 GHz | 1 GB | 12-27VDC | 2.140,00 | 5 |
| 10080 | 15MURA(HR2) SUP | 15" | AMD 1.0 GHz | 1 GB | 18-36VDC | 2.140,00 | 5 |
| 10715 | 15MURA(VR2) | 15" | ATOM 1.1 GHz | 1 GB | 12-27VDC | 2.240,00 | 5 |
| 10714 | 15MURA(VR2) SUP | 15" | AMD 1.0 GHz | 1 GB | 18-36VDC | 2.240,00 | 5 |
| 6063 | 19MURA | 19" | AMD 1.0 GHz | 1 GB | 18-36VDC | 2.840,00 | 5 |
| 10083 | 19MURA SUP | 19" | CELERON 1.06 GHz | 2 GB | 18-36VDC | 3.240,00 | 5 |

* For more information about the design frames, mounting boxes, power supplies and other upgrade options, please visit our web site or contact us via telephone or e-mail.

Kit ambientomura Futurasmus

| WEB CODE | ORDER Nr. | DESCRIPTION | LIST PRICE | P.G. |
|----------|--------------------|---|------------|------|
| 8232 | KIT AMBIENTO15MURA | SCOPE OF DELIVERY: TOUCH SCREEN PC 15MURA(HR2), BLACK DESIGN FRAME, POWER SUPPLY AND PUSH-TO-TALK (MOUNTING BOX NOT INCLUDED) | 1.939,00 | 1 |

⌚ Ambiento

Touch Screen PC in elegant aluminium housing for surface mounting.

- Display sizes available: 15" and 19".
- Surface mounting.
- Capacitive or resistive touch display.
- HDD or flash disk (depending on the operating system).
- Ethernet 10/100/1000Mbps.
- USB 2.0.
- Intel Atom, 1.6 GHz CPU.
- 2Gb RAM memory.
- Upgrade options: Push-to-Talk, WLAN, etc.
- Touch housing and operating system required.



| WEB CODE | ORDER Nr. | SIZE | DESCRIPTION | LIST PRICE | P.G. |
|----------|--------------|------|--|------------|------|
| 10092 | AMBIENTO15RT | 15" | SURFACE MOUNTING TOUCH SCREEN PC, RESISTIVE | 3.890,00 | 4 |
| 5538 | AMBIENTO15GT | 15" | SURFACE MOUNTING TOUCH SCREEN PC, CAPACITIVE | 4.090,00 | 4 |
| 10093 | AMBIENTO19RT | 19" | SURFACE MOUNTING TOUCH SCREEN PC, RESISTIVE | 4.490,00 | 4 |
| 10094 | AMBIENTO19GT | 19" | SURFACE MOUNTING TOUCH SCREEN PC, CAPACITIVE | 4.690,00 | 4 |

* For more information about the touch housings, mounting boxes, power supplies and other upgrade options, please visit our web site or contact us via telephone or e-mail.

WHD



WHD

What makes us different, all the support for the KNX integrator.

KNX Audio System

KNX-controlled multiroom system for audio distribution. Thanks to its scalability, it allows a great number of zones and speakers. Moreover, its functionality includes the possibility of sending announcements over speakers to all zones or just some of them.

- Up to 8 mono sources or 4 stereo sources, transmitted with no quality loss.
- The output of each zone can be mono or stereo.
- For each zone, the following functions can be controlled via KNX:
 - Switch on/off.
 - Source selection.
 - Volume.
 - Mute.
 - Equalizer (low / high tones).
 - Loudness function to highlight low frequencies at low volume.
- Public address announcements over speakers.
- Great range of speakers to meet any need.



| WEB CODE | ORDER Nr. | DESCRIPTION | LIST PRICE | P.G. |
|----------|-------------------|--|------------|------|
| 8019 | EIBPREAMP800A | 8 CHANNEL PREAMPLIFIER (8 MONO OR 4 STEREO) | 1.037,90 | 7 |
| 4490 | EIBAM840 | 4 CHANNEL KNX AUDIO ACTUATOR (4 MONO OR 2 STEREO) AND 8 INPUTS | 1.123,20 | 7 |
| 9887 | EIBKABELSUBDAM840 | CASCADING CABLE FOR AM 840 | 18,70 | 7 |
| 8020 | AMP10DCHS | 10 W / 4 OHM MONO AMPLIFIER FOR DIN RAIL | 115,80 | 7 |
| 10022 | UP142W8 | 2-WAY HIFI CEILING SPEAKER | 66,80 | 7 |

* For more information about the speaker range, amplifiers, microphones, etc., please visit our web site or contact us via telephone or e-mail.

④ DAM 6000 System

Advanced system for audio distribution. On the basis of the same functions of the AM 840 system, the DAM 6000 represents a step up as far as functionality and installation is concerned: same as an Ethernet network.

- 5 analogue (RCA) and 1 digital (S/P-DIF optical toslink or coaxial RCA) input in the central unit.
- Optionally, 4 additional inputs per zone along with DAM V3 LI.
- Up to 254 stereo zones.
- IR output for source control via KNX.
- Integrated IR learning lens.
- Alarm clock function.
- For each zone, the following functions can be controlled via KNX:
 - Switch on/off.
 - Source selection.
 - Transmission of source name in DPT 14bytes.
 - Volume.
 - Mute.
 - Sending of IR commands.
 - Activation / deactivation of alarm clock function.
 - Equalizer (low, medium and high tones).
 - Etc.
- Public address announcements over speakers.
- 6 present buttons at the front to save different configurations.
- In combination with an eibPort (manufacturer bab-tec), it allows the control of multimedia servers and the transmission of the currently playing MP3 data to the Bus (format 14bytes).
- Integrated web server to control functionality and system configuration.
- Application for the control of the system via iPhone available (please, enquire price).
- KNXnet/IP gateway required.
- Great range of speakers to meet any need.

④



④



| WEB CODE | ORDER Nr. | DESCRIPTION | LIST PRICE | P.G. |
|----------|----------------|---------------------------------|------------|------|
| 8373 | DAMV3ZENTRALES | CENTRAL UNIT, BLACK | 3.099,00 | 7 |
| 10058 | DAMV3ZENTRALEA | CENTRAL UNIT, SILVER | 3.099,00 | 7 |
| 8375 | DAMV3LSS | STEREO SPEAKER MODULE, 2 X 20 W | 790,40 | 7 |
| 10059 | DAMV3LSLO | LINE-OUT SPEAKER MODULE | 632,30 | 7 |
| 10060 | DAMV3LI | LOCAL INPUT MODULE | 1.206,40 | 7 |
| 7068 | DAMV3KNX-LINK | KNX INTERFACE FOR DAM CONTROL | 946,40 | 7 |
| 10022 | UP142W8 | 2-WAY HIFI CEILING SPEAKER | 66,80 | 7 |

* For more information about the speaker range, amplifiers, microphones, etc., please visit our web site or contact us via telephone or e-mail.

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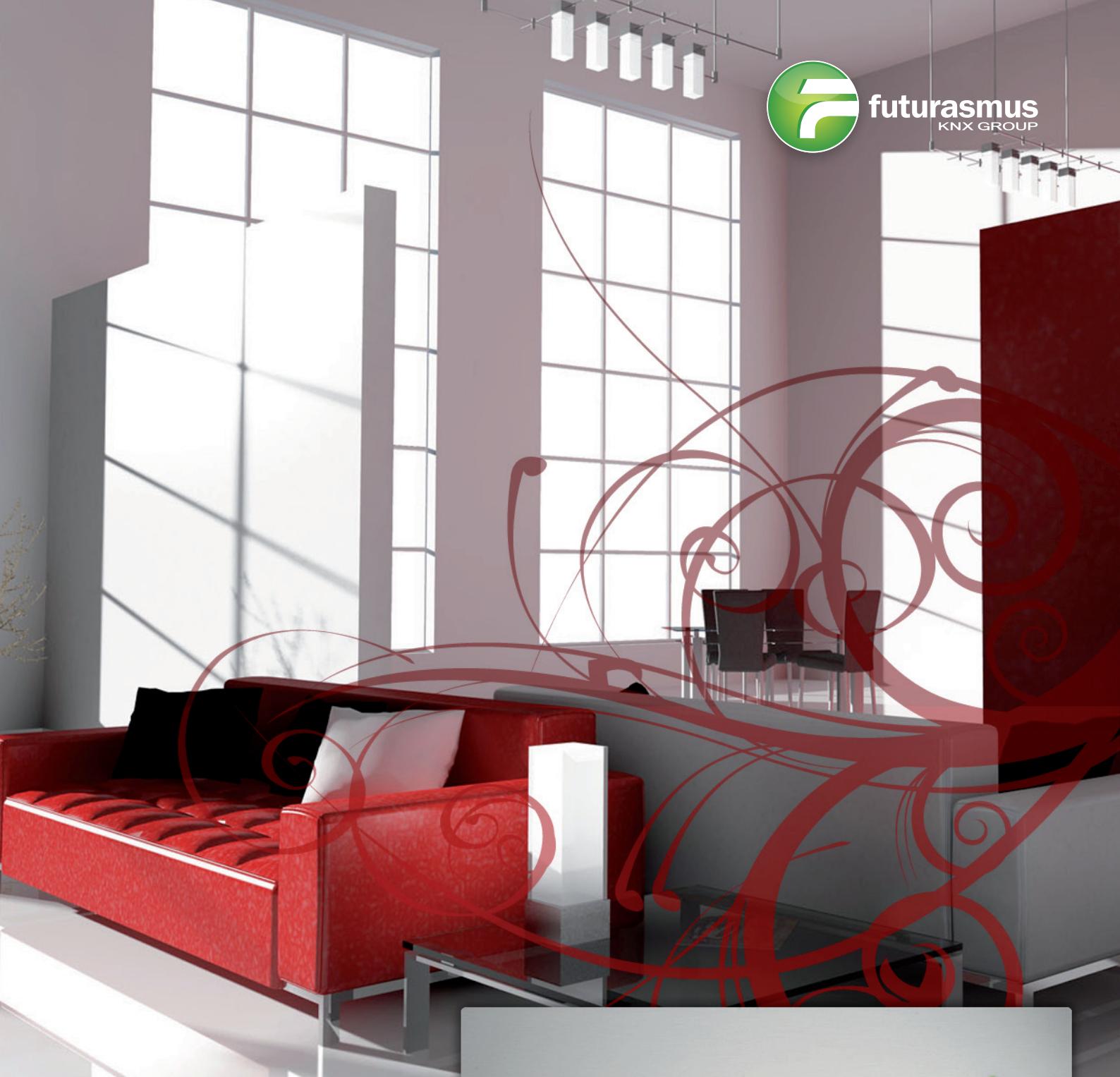


CONTROLtronic

Building Control Systems



futurasmus
KNX GROUP



iddero

HC1



futurasmus
KNX GROUP



iddero



HC2



futurasmus
KNX GROUP



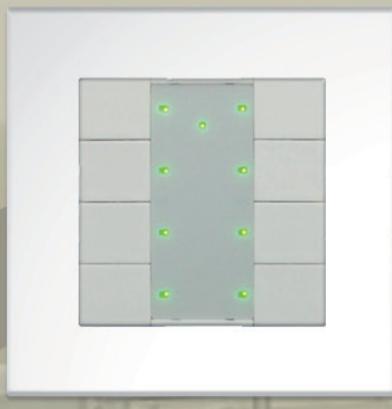


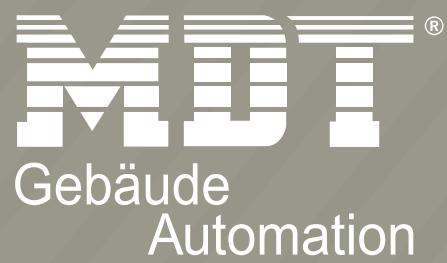
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PULSADORES

PULSADORES

OVERVIEW TABLES



Everything you need in one place



arcus-eds

electronic design services gmbh

KNX SENSORS - TEMPERATURE/HUMIDITY/CLIMATE



10001010111010101110 / 10000101*//1011011/1010101
1000001000 / 10000111**** 1111// 1000010101011100/
//101011000101 //enter//10000100101101***



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KNX SENSORS - TEMPERATURE



| | | | | | | | | | |
|-------|----------|--------------------------------------|-----------------------------------|--|----------------|---------------------------------|------------------|---|----|
| 9993 | 30101000 | SK01-T | ON-WALL, OUTDOOR, DAMP ROOM, IP65 | SK01 WITHOUT TEMPERATURE PROBE | | | |  | 75 |
| 6158 | 30101001 | SK01-T-OFTF | | SK01 WITH SURFACE-CONTACTING PROBE | | ALUMINIUM | 8x8x40 |  | 75 |
| 6130 | 30101002 | SK01-T-HTF PVC 1,5 m | | SK01 WITH SLEEVE SENSOR | PVC 1,5 m | | |  | 75 |
| 6112 | 30101003 | SK01-T-HTF SILICONA 1,5 m | | | SILICONE 1,5 m | | |  | 76 |
| 6131 | 30101055 | SK01-T-HTF TEFLÓN 1,5 m | | | TEFLON 1,5 m | | |  | 76 |
| 6332 | 30101004 | SK01-T-ALTF1 PVC 1,5 m | | SK01 WITH CONTACTING/TUBE CONTACTING PROBE | PVC 1,5 m | | |  | 76 |
| 9212 | 30101005 | SK01-T-ALTF1 SILICONA 1,5 m | | | SILICONE 1,5 m | | |  | 77 |
| 8390 | 30101006 | SK01-T-ALTF2 | | | | | |  | 77 |
| 8275 | 30101007 | SK01-T-ATF2 | | SK01 WITH EXTERNAL PROBE | | V4A STEEL | 30 mm, Ø 6 mm |  | 77 |
| 10011 | 30101008 | SK01-T-ESTF 50 mm PVC 1,5 m | | SK01 WITH SCREW-IN/IMMERSION PROBE-CABLE CONNECTION | PVC 1,5 m | V4A STEEL (30 mm, Ø 6 mm) | G1/2", 50 mm |  | 78 |
| 10012 | 30101009 | SK01-T-ESTF 100 mm PVC 1,5 m | | | PVC 1,5 m | V4A STEEL (30 mm, Ø 6 mm) | G1/2", 100 mm |  | 78 |
| 10013 | 30101010 | SK01-T-ESTF 50 mm SILICONA 1,5 m | | | SILIKON 1,5 m | V4A STEEL (30 mm, Ø 6 mm) | G1/2", 50 mm |  | 78 |
| 10014 | 30101011 | SK01-T-ESTF 100 mm SILICONA 1,5 m | | | SILIKON 1,5 m | V4A STEEL (30 mm, Ø 6 mm) | G1/2", 100 mm |  | 79 |
| 6026 | 30101013 | SK01-T-ETF1 50 mm BRASS | | SK01 WITH SCREW-IN/IMMERSION PROBE, BRASS IMMERSION SLEEVE | | BRASS | G1/2", 50 mm |  | 79 |
| 6083 | 30101014 | SK01-T-ETF1 100 mm BRASS | | | | BRASS | G1/2", 100 mm |  | 79 |
| 5945 | 30101015 | SK01-T-ETF1 150 mm BRASS | | | | BRASS | G1/2", 150 mm |  | 80 |
| 6084 | 30101016 | SK01-T-ETF1 200 mm BRASS | | | | BRASS | G1/2", 200 mm |  | 80 |
| 6085 | 30101017 | SK01-T-ETF1 250 mm BRASS | | | | BRASS | G1/2", 250 mm |  | 80 |
| 6086 | 30101018 | SK01-T-ETF1 300 mm BRASS | | | | BRASS | G1/2", 300 mm |  | 81 |
| 6087 | 30101019 | SK01-T-ETF1 400 mm BRASS | | | | BRASS | G1/2", 400 mm |  | 81 |



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KNX SENSORS - TEMPERATURE



| | | | | | | | | | |
|-------|----------|---------------------------|-----------------------------------|--|--|-----|------------------|---|----|
| 6081 | 30101020 | SK01-T-ETF2 50 mm V4A | ON-WALL, OUTDOOR, DAMP ROOM, IP65 | SK01 WITH SCREW-IN IMMERSION PROBE, IMMERSION SLEEVE V4A | | V4A | G1/2", 50 mm |  | 81 |
| 6134 | 30101021 | SK01-T-ETF2 100 mm V4A | | | | V4A | G1/2", 100 mm | | 82 |
| 6135 | 30101022 | SK01-T-ETF2 150 mm V4A | | | | V4A | G1/2", 150 mm | | 82 |
| 6136 | 30101023 | SK01-T-ETF2 200 mm V4A | | | | V4A | G1/2", 200 mm | | 82 |
| 6137 | 30101024 | SK01-T-ETF2 250 mm V4A | | | | V4A | G1/2", 250 mm | | 83 |
| 6138 | 30101025 | SK01-T-ETF2 300 mm V4A | | | | V4A | G1/2", 300 mm | | 83 |
| 6139 | 30101026 | SK01-T-ETF2 400 mm V4A | | | | V4A | G1/2", 400 mm | | 83 |
| 9995 | 30101027 | SK01-T-ETF3 50 mm | | SK01 WITH SCREW-IN/ IMMERSION PROBE. IMMERSION SLEEVE WITH EXTENDED SHAFT V4A | | V4A | G1/2", 50 mm |  | 84 |
| 9996 | 30101028 | SK01-T-ETF3 100 mm | | | | V4A | G1/2", 100 mm | | 84 |
| 9997 | 30101029 | SK01-T-ETF3 150 mm | | | | V4A | G1/2", 150 mm | | 84 |
| 9998 | 30101030 | SK01-T-ETF3 200 mm | | | | V4A | G1/2", 200 mm | | 85 |
| 9999 | 30101031 | SK01-T-ETF3 250 mm | | | | V4A | G1/2", 250 mm | | 85 |
| 10000 | 30101032 | SK01-T-ETF3 300 mm | | | | V4A | G1/2", 300 mm | | 85 |
| 10001 | 30101033 | SK01-T-ETF3 400 mm | | | | V4A | G1/2", 400 mm | | 86 |
| 10002 | 30101034 | SK01-T-ETF7 100 mm | | SK01 WITH SCREW-IN/ IMMERSION PROBE WITH EXTENDED SHAFT WITH NECK TUBE FOR QUICK RESPONSIVITY | | V4A | G1/2", 100 mm |  | 86 |
| 10003 | 30101035 | SK01-T-ETF7 150 mm | | | | V4A | G1/2", 150 mm | | 86 |
| 10004 | 30101036 | SK01-T-ETF7 250 mm | | | | V4A | G1/2", 250 mm | | 87 |
| 10005 | 30101037 | SK01-T-KTF1 50 mm | | SK01 WITH DUCT/AIR DUCT PROBE INCL. MOUNTING FLANGE V4A | | V4A | 50 mm | | 87 |
| 10006 | 30101038 | SK01-T-KTF1 100 mm | | | | V4A | 100 mm | | 87 |



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KNX SENSORS - TEMPERATURE



| | | | | | | | | | |
|-------|----------|--------------------|-----------------------------------|---|-----------|------------------------------|---------------------------|---|----|
| 10007 | 30101039 | SK01-T-KTF1 150 mm | ON-WALL, OUTDOOR, DAMP ROOM, IP65 | SK01 WITH DUCT/AIR DUCT PROBE INCL. MOUNTING FLANGE V4A | | V4A | 150 mm |  | 88 |
| 8880 | 30101040 | SK01-T-KTF1 200 mm | | | | V4A | 200 mm | | 88 |
| 10008 | 30101041 | SK01-T-KTF1 250 mm | | | | V4A | 250 mm | | 88 |
| 9165 | 30101042 | SK01-T-KTF1 300 mm | | | | V4A | 300 mm | | 89 |
| 9093 | 30101043 | SK01-T-KTF1 400 mm | | | | V4A | 400 mm | | 89 |
| 10009 | 30101050 | SK01-T-RPTF1 | ON-WALL, INDOOR | SK01 WITH PENDULUM ROOM PROBE | PVC 1,5 m | STAINLESS STEEL 1.4571 | 100 mm, M12/ 1,5 mm |  | 89 |
| 10010 | 30101051 | SK01-T-RPTF2 | | SK01 WITH PENDULUM ROOM PROBE (GLOBE THERMOMETER) | PVC 1,5 m | BLACK PLASTIC BALL | Ø = 50 mm |  | 90 |
| 7715 | 30102201 | SK02-T | IN-WALL, INDOOR | TEMPERATURE PROBE INTEGRATED IN BOX | | | |  | 90 |
| 6075 | 30103201 | SK03-T BLANCO | | TEMPERATURE PROBE INTEGRATED IN BOX | | | |  | 90 |
| 6076 | 30103202 | SK03-T ANTRACITA | | | | | |  | 91 |
| 9917 | 30801000 | SK08-T8 | INDOOR/ OUTDOOR | MULTIPLE-PT1000 8 CHANNEL | | | |  | 91 |



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KNX SENSORS - TEMPERATURE/HUMIDITY/CLIMATE



| | | | | | | | | |
|-------|----------|---------------------|-----------------------------------|-------------------------------|-----|--------|--|----|
| 6090 | 30301053 | SK01-TFK-AFF | INDOOR/OUTDOOR AND DAMP LOCATIONS | SK01 WITH EXTERNAL PROBE | 2 m | 45 mm | | 93 |
| 10015 | 30301054 | SK01-TFK-RPFF | | SK01 WITH PENDULUM ROOM PROBE | 2 m | 100 mm | | 93 |
| 10016 | 30301056 | SK01-TFK-MMF | | | 2 m | 100 mm | | 93 |
| 10117 | 30301057 | SK01-TFK-KFF | | SK01 WITH DUCT PROBE | | 230 mm | | 94 |
| 5881 | 30302201 | SK02-TFK | ON-WALL, INDOOR | SENSOR INTEGRATED IN BOX | | | | 94 |
| 6079 | 30303201 | SK03-TFK WHITE | IN-WALL, INDOOR | SENSOR INTEGRATED IN BOX | | | | 94 |
| 6080 | 30303202 | SK03-TFK ANTHRACITE | | | | | | 95 |



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KNX SENSORS - TEMPERATURE/TEMPERATURE/HUMIDITY/CLIMATE



| | | | | | | | | |
|-------|----------|----------------------|-----------------------------------|-------------------------------|-----|-----------------|---|----|
| 6091 | 30401053 | SK01-TTFK-AFF | INDOOR/OUTDOOR AND DAMP LOCATIONS | SK01 WITH EXTERNAL PROBE | | 45 mm, Ø = 14mm |  | 97 |
| 10046 | 30401054 | SK01-TTFK-RPFF | | SK01 WITH PENDULUM ROOM PROBE | 2 m | 100 mm |  | 97 |
| 10047 | 30401056 | SK01-TTFK-MMF | | | 2 m | 100 mm |  | 97 |
| 10048 | 30401057 | SK01-TTFK-KFF | | SK01 WITH DUCT PROBE | | 230 mm |  | 98 |
| 8221 | 30403201 | SK03-TTFK WHITE | IN-WALL, INDOOR | SENSOR INTEGRATED IN BOX | | |  | 98 |
| 8222 | 30403202 | SK03-TTFK ANTHRACITE | | | | |  | 98 |



TECHNICAL DATA

KNX SENSORS - TEMPERATURE

Sensors with integrated KNX-Bus Coupler for measuring and regulating temperature.

No auxiliary voltage necessary.

ETS Application:

- Measured values of temperature.
- PI or two-point controller for temperature with steady or PWM output.
- Various operating methods for temperature control: relative RTC, absolute RTC, standard.
- Alarm thresholds with presetting via KNX Bus: temperature.
- Minimum/Maximum temperature saved.
- Adjustable frost protection alarm.
- Post-adjustment of all thresholds and regulation objects.
- Actual value adjustment for temperature.



KNX SENSORS - TEMPERATURE

| WEB CODE | 9993 | 6158 | 6130 |
|-------------------|---|--|---|
| IMAGE |  |  |  |
| ARTICLE NUMBER | 30101000 | 30101001 | 30101002 |
| MANUFACTURER REF. | SK01-T | SK01-T-OFTF | SK01-T-HTF PVC 1,5 m |
| DESCRIPTION 1 | SK01 WITHOUT TEMPERATURE PROBE | SK01 WITH SURFACE-CONTACTING PROBE | SK01 WITH SLEEVE SENSOR |
| DESCRIPTION 2 | | SQUARE, FOR FLAT SURFACES | PT1000 |
| TEMPERATURE RANGE | | -30...+105°C | -35...+105°C |
| INSTALLATION | ON-WALL, OUTDOOR, DAMP ROOM, IP65 | ON-WALL, OUTDOOR, DAMP ROOM, IP65 | ON-WALL, OUTDOOR, DAMP ROOM, IP65 |
| APPLICATION | | | LIQUID AND GASEOUS MEDIA |
| CONNECTION CABLE | | MAT. PVC | DIM. 1,5 m |
| PROBLE | | ALUMINIUM | 8x8x40 |
| SEALING | IP65 | IP65 | IP65 |
| LISTPRICE | 143,00 € | 161,90 € | 154,75 € |



KNX SENSORS - TEMPERATURE

| WEB CODE | 6112 | 6131 | 6332 | | | |
|-------------------|---|--|---|---------------|-------------|---------------|
| IMAGE |  |  |  | | | |
| ARTICLE NUMBER | 30101003 | 30101055 | 30101004 | | | |
| MANUFACTURER REF. | SK01-T-HTF SILICONE 1,5 m | SK01-T-HTF TEFLON 1,5 m | SK01-T-ALTF1 PVC 1,5 m | | | |
| DESCRIPTION 1 | SK01 WITH SLEEVE SENSOR | SK01 WITH SLEEVE SENSOR | SK01 WITH CONTACTING/TUBE CONTACTING PROBE | | | |
| DESCRIPTION 2 | PT1000 | PT1000 | AXIAL SENSOR TUBE | | | |
| TEMPERATURE RANGE | -50...+180°C | -50...+250°C | -35...+105°C | | | |
| INSTALLATION | ON-WALL, OUTDOOR, DAMP ROOM, IP65 | ON-WALL, OUTDOOR, DAMP ROOM, IP65 | ON-WALL, OUTDOOR, DAMP ROOM, IP65 | | | |
| APPLICATION | LIQUID AND GASEOUS MEDIA | LIQUID AND GASEOUS MEDIA | LIQUIDS AND GASEOUS MEDIA IN PIPES AND TUBES | | | |
| CONNECTION CABLE | MAT. SILICONE | DIM. 1,5 m | MAT. TEFLON | DIM. 1,5 m | MAT. PVC | DIM. 1,5 m |
| PROBLE | | | | | | |
| SEALING | | | IP68 | | | IP65 |
| LISTPRICE | 159,10 € | | 171,90 € | | | 157,00 € |



KNX SENSORS - TEMPERATURE



KNX SENSORS - TEMPERATURE

| WEB CODE | 9212 | 8390 | 8275 |
|-------------------|---|--|---|
| IMAGE |  |  |  |
| ARTICLE NUMBER | 30101005 | 30101006 | 30101007 |
| MANUFACTURER REF. | SK01-T-ALTF1 SILIKON 1,5 m | SK01-T-ALTF2 | SK01-T-ATF2 |
| DESCRIPTION 1 | SK01 WITH CONTACTING/TUBE CONTACTING PROBE | SK01 WITH CONTACTING/TUBE CONTACTING PROBE | SK01 WITH EXTERNAL PROBE |
| DESCRIPTION 2 | CONTACTING/ TUBE CONTACTING PROBE | CONTACTING SENSOR (PT1000) | THE PT1000 SENSOR ENCLOSED IN SHEATH TUBE |
| TEMPERATURE RANGE | -35...+180°C | -30...+110°C | -50...+90°C |
| INSTALLATION | ON-WALL, OUTDOOR, DAMP ROOM, IP65 | ON-WALL, OUTDOOR, DAMP ROOM, IP65 | ON-WALL, OUTDOOR, DAMP ROOM, IP65 |
| APPLICATION | LIQUIDS AND GASEOUS MEDIA IN PIPES AND TUBES | LIQUIDS AND GASEOUS MEDIA IN PIPES AND TUBES | |
| CONNECTION CABLE | MAT. SILICONE | DIM. 1,5 m | |
| PROBLE | | | MAT. V4A STEEL |
| SEALING | | IP65 | DIM. 30 mm, Ø 6 mm |
| LISTPRICE | 158,10 € | 160,10 € | 170,80 € |



KNX SENSORS - TEMPERATURE

| WEB CODE | 10011 | 10012 | 10013 |
|-------------------|---|---|---|
| IMAGE |  |  |  |
| ARTICLE NUMBER | 30101008 | 30101009 | 30101010 |
| MANUFACTURER REF. | SK01-T-ESTF 50 mm PVC 1,5 m | SK01-T-ESTF 100 mm PVC 1,5 m | SK01-T-ESTF 50 mm SILICONE 1,5 m |
| DESCRIPTION 1 | SK01 WITH SCREW-IN/IMMERSION PROBE-CABLE CONNECTION | SK01 WITH SCREW-IN/IMMERSION PROBE-CABLE CONNECTION | SK01 WITH SCREW-IN/IMMERSION PROBE-CABLE CONNECTION |
| DESCRIPTION 2 | THE PT1000 SENSOR IS IN A BRASS SHEATH TUBE (Ø8MM MAX. PRESSURE 40 BAR) MADE OF V4A STEEL WITH CABLE CONNECTION | THE PT1000 SENSOR IS IN A BRASS SHEATH TUBE (Ø8MM MAX. PRESSURE 40 BAR) MADE OF V4A STEEL WITH CABLE CONNECTION | THE PT1000 SENSOR IS IN A BRASS SHEATH TUBE (Ø8MM MAX. PRESSURE 40 BAR) MADE OF V4A STEEL WITH CABLE CONNECTION |
| TEMPERATURE RANGE | -35...+105°C | -35...+105°C | -50...+180°C |
| INSTALLATION | ON-WALL, OUTDOOR, DAMP ROOM, IP65 | ON-WALL, OUTDOOR, DAMP ROOM, IP65 | ON-WALL, OUTDOOR, DAMP ROOM, IP65 |
| APPLICATION | LIQUID OR GASEOUS MEDIA, IN HEATING PLANTS, CIRCULATION AND CLIMATE TECHNOLOGY | LIQUID OR GASEOUS MEDIA, IN HEATING PLANTS, CIRCULATION AND CLIMATE TECHNOLOGY | LIQUID OR GASEOUS MEDIA, IN HEATING PLANTS, CIRCULATION AND CLIMATE TECHNOLOGY |
| CONNECTION CABLE | MAT. PVC DIM. 1,5 m | MAT. PVC DIM. 1,5 m | MAT. SILICONE DIM. 1,5 m |
| PROBLE | MAT. V4A STEEL (30 mm, Ø 6 mm) DIM. G1/2", 50 mm | MAT. V4A STEEL (30 mm, Ø 6 mm) DIM. G1/2", 100 mm | MAT. V4A STEEL (30 mm, Ø 6 mm) DIM. G1/2", 50 mm |
| SEALING | IP65 | IP65 | IP65 |
| LISTPRICE | 171,50 € | 172,50 € | 172,50 € |



KNX SENSORS - TEMPERATURE

| WEB CODE | 10014 | 6026 | 6083 | | | |
|-------------------|---|--|--|----------------------|---------------|-----------------------|
| IMAGE |  |  |  | | | |
| ARTICLE NUMBER | 30101011 | 30101013 | 30101014 | | | |
| MANUFACTURER REF. | SK01-T-ESTF 100 mm SILICONE 1,5 m | SK01-T-ETF1 50 mm BRASS | SK01-T-ETF1100 mm BRASS | | | |
| DESCRIPTION 1 | SK01 WITH SCREW-IN/IMMERSION PROBE-CABLE CONNECTION | SK01 WITH SCREW-IN/IMMERSION PROBE, BRASS IMMERSION SLEEVE | SK01 WITH SCREW-IN/IMMERSION PROBE, BRASS IMMERSION SLEEVE | | | |
| DESCRIPTION 2 | THE PT1000 SENSOR IS IN A BRASS SHEATH TUBE (Ø8MM MAX. PRESSURE 40 BAR) MADE OF V4A STEEL WITH CABLE CONNECTION | THE PT1000 SENSOR IS IN A BRASS SHEATH TUBE (Ø 6MM), WHICH IS INSIDE A BRASS IMMERSION SLEEVE (Ø 8MM)(MAX. PRESSURE 10 BAR). | THE PT1000 SENSOR IS IN A BRASS SHEATH TUBE (Ø 6MM), WHICH IS INSIDE A BRASS IMMERSION SLEEVE (Ø 8MM)(MAX. PRESSURE 10 BAR). | | | |
| TEMPERATURE RANGE | -50...+180°C | -30...+150°C | -30...+150°C | | | |
| INSTALLATION | ON-WALL, OUTDOOR, DAMP ROOM, IP65 | ON-WALL, OUTDOOR, DAMP ROOM, IP65 | ON-WALL, OUTDOOR, DAMP ROOM, IP65 | | | |
| APPLICATION | LIQUID OR GASEOUS MEDIA, IN HEATING PLANTS, CIRCULATION AND CLIMATE TECHNOLOGY | LIQUID OR GASEOUS MEDIA, IN HEATING PLANTS, CIRCULATION AND CLIMATE TECHNOLOGY | LIQUID OR GASEOUS MEDIA, IN HEATING PLANTS, CIRCULATION AND CLIMATE TECHNOLOGY | | | |
| CONNECTION CABLE | MAT. SILICONE | DIM. 1,5 m | | | | |
| PROBLE | MAT. V4A STEEL (30 mm, Ø 6 mm) | DIM. G1/2", 100 mm | MAT. BRASS | DIM. G1/2", 50 mm | MAT. BRASS | DIM. G1/2", 100 mm |
| SEALING | IP65 | IP65 | IP65 | | | |
| LISTPRICE | 173,60 € | 176,75 € | 177,95 € | | | |



KNX SENSORS - TEMPERATURE

| WEB CODE | 5945 | 6084 | 6085 | | | |
|-------------------|--|--|--|-----------------------|---------------|-----------------------|
| IMAGE |  |  |  | | | |
| ARTICLE NUMBER | 30101015 | 30101016 | 30101017 | | | |
| MANUFACTURER REF. | SK01-T-ETF1 150 mm BRASS | SK01-T-ETF1 200 mm BRASS | SK01-T-ETF1 250 mm BRASS | | | |
| DESCRIPTION 1 | SK01 WITH SCREW-IN/IMMERSION PROBE, BRASS IMMERSION SLEEVE | SK01 WITH SCREW-IN/IMMERSION PROBE, BRASS IMMERSION SLEEVE | SK01 WITH SCREW-IN/IMMERSION PROBE, BRASS IMMERSION SLEEVE | | | |
| DESCRIPTION 2 | THE PT1000 SENSOR IS IN A BRASS SHEATH TUBE (Ø 6MM), WHICH IS INSIDE A BRASS IMMERSION SLEEVE (Ø 8MM)(MAX. PRESSURE 10 BAR). | THE PT1000 SENSOR IS IN A BRASS SHEATH TUBE (Ø 6MM), WHICH IS INSIDE A BRASS IMMERSION SLEEVE (Ø 8MM)(MAX. PRESSURE 10 BAR). | THE PT1000 SENSOR IS IN A BRASS SHEATH TUBE (Ø 6MM), WHICH IS INSIDE A BRASS IMMERSION SLEEVE (Ø 8MM)(MAX. PRESSURE 10 BAR). | | | |
| TEMPERATURE RANGE | -30...+150°C | -30...+150°C | -30...+150°C | | | |
| INSTALLATION | ON-WALL, OUTDOOR, DAMP ROOM, IP65 | ON-WALL, OUTDOOR, DAMP ROOM, IP65 | ON-WALL, OUTDOOR, DAMP ROOM, IP65 | | | |
| APPLICATION | LIQUID OR GASEOUS MEDIA, IN HEATING PLANTS, CIRCULATION AND CLIMATE TECHNOLOGY | LIQUID OR GASEOUS MEDIA, IN HEATING PLANTS, CIRCULATION AND CLIMATE TECHNOLOGY | LIQUID OR GASEOUS MEDIA, IN HEATING PLANTS, CIRCULATION AND CLIMATE TECHNOLOGY | | | |
| CONNECTION CABLE | | | | | | |
| PROBLE | MAT. BRASS | DIM. G1/2", 150 mm | MAT. BRASS | DIM. G1/2", 200 mm | MAT. BRASS | DIM. G1/2", 250 mm |
| SEALING | IP65 | | IP65 | | IP65 | |
| LISTPRICE | 178,60 € | | 180,20 € | | 181,15 € | |



KNX SENSORS - TEMPERATURE



KNX SENSORS - TEMPERATURE

| WEB CODE | 6086 | 6087 | 6081 | | | |
|-------------------|--|--|--|-----------------------|-------------|----------------------|
| IMAGE |  |  |  | | | |
| ARTICLE NUMBER | 30101018 | 30101019 | 30101020 | | | |
| MANUFACTURER REF. | SK01-T-ETF1 300 mm BRASS | SK01-T-ETF1 400 mm BRASS | SK01-T-ETF2 50 mm V4A | | | |
| DESCRIPTION 1 | SK01 WITH SCREW-IN/IMMERSION PROBE, BRASS IMMERSION SLEEVE | SK01 WITH SCREW-IN/IMMERSION PROBE, BRASS IMMERSION SLEEVE | SK01 WITH SCREW-IN IMMERSION PROBE, IMMERSION SLEEVE V4A | | | |
| DESCRIPTION 2 | THE PT1000 SENSOR IS IN A BRASS SHEATH TUBE (Ø 6MM), WHICH IS INSIDE A BRASS IMMERSION SLEEVE (Ø 8MM)(MAX. PRESSURE 10 BAR). | THE PT1000 SENSOR IS IN A BRASS SHEATH TUBE (Ø 6MM), WHICH IS INSIDE A BRASS IMMERSION SLEEVE (Ø 8MM)(MAX. PRESSURE 10 BAR). | THE PT1000 SENSOR IS IN A V4A STEEL SHEATH TUBE (Ø 6MM), WHICH IS INSIDE A V4A IMMERSION SLEEVE (Ø 8MM) (MAX. PRESSURE 40 BAR) | | | |
| TEMPERATURE RANGE | -30...+150°C | -30...+150°C | -30...+150°C | | | |
| INSTALLATION | ON-WALL, OUTDOOR, DAMP ROOM, IP65 | ON-WALL, OUTDOOR, DAMP ROOM, IP65 | ON-WALL, OUTDOOR, DAMP ROOM, IP65 | | | |
| APPLICATION | LIQUID OR GASEOUS MEDIA, IN HEATING PLANTS, CIRCULATION AND CLIMATE TECHNOLOGY | LIQUID OR GASEOUS MEDIA, IN HEATING PLANTS, CIRCULATION AND CLIMATE TECHNOLOGY | LIQUID OR GASEOUS MEDIA, IN HEATING PLANTS, CIRCULATION AND CLIMATE TECHNOLOGY | | | |
| CONNECTION CABLE | | | | | | |
| PROBLE | MAT. BRASS | DIM. G1/2", 300 mm | MAT. BRASS | DIM. G1/2", 400 mm | MAT. V4A | DIM. G1/2", 50 mm |
| SEALING | IP65 | | IP65 | | IP65 | |
| LISTPRICE | 183,95 € | | 185,15 € | | 181,90 € | |



KNX SENSORS - TEMPERATURE

| WEB CODE | 6134 | 6135 | 6136 | | | |
|-------------------|--|--|--|--------------------|----------|--------------------|
| IMAGE |  |  |  | | | |
| ARTICLE NUMBER | 30101021 | 30101022 | 30101023 | | | |
| MANUFACTURER REF. | SK01-T-ETF2 100 mm V4A | SK01-T-ETF2 150 mm V4A | SK01-T-ETF2 200 mm V4A | | | |
| DESCRIPTION 1 | SK01 WITH SCREW-IN IMMERSION PROBE, IMMERSION SLEEVE V4A | SK01 WITH SCREW-IN IMMERSION PROBE, IMMERSION SLEEVE V4A | SK01 WITH SCREW-IN IMMERSION PROBE, IMMERSION SLEEVE V4A | | | |
| DESCRIPTION 2 | THE PT1000 SENSOR IS IN A V4A STEEL SHEATH TUBE (Ø 6MM), WHICH IS INSIDE A V4A IMMERSION SLEEVE (Ø 8MM) (MAX. PRESSURE 40 BAR) | THE PT1000 SENSOR IS IN A V4A STEEL SHEATH TUBE (Ø 6MM), WHICH IS INSIDE A V4A IMMERSION SLEEVE (Ø 8MM) (MAX. PRESSURE 40 BAR) | THE PT1000 SENSOR IS IN A V4A STEEL SHEATH TUBE (Ø 6MM), WHICH IS INSIDE A V4A IMMERSION SLEEVE (Ø 8MM) (MAX. PRESSURE 40 BAR) | | | |
| TEMPERATURE RANGE | -30...+150°C | -30...+150°C | -30...+150°C | | | |
| INSTALLATION | ON-WALL, OUTDOOR, DAMP ROOM, IP65 | ON-WALL, OUTDOOR, DAMP ROOM, IP65 | ON-WALL, OUTDOOR, DAMP ROOM, IP65 | | | |
| APPLICATION | LIQUID OR GASEOUS MEDIA, IN HEATING PLANTS, CIRCULATION AND CLIMATE TECHNOLOGY | LIQUID OR GASEOUS MEDIA, IN HEATING PLANTS, CIRCULATION AND CLIMATE TECHNOLOGY | LIQUID OR GASEOUS MEDIA, IN HEATING PLANTS, CIRCULATION AND CLIMATE TECHNOLOGY | | | |
| CONNECTION CABLE | | | | | | |
| PROBLE | MAT. V4A | DIM. G1/2", 100 mm | MAT. V4A | DIM. G1/2", 150 mm | MAT. V4A | DIM. G1/2", 200 mm |
| SEALING | IP65 | | IP65 | | IP65 | |
| LISTPRICE | 184,73 € | | 187,10 € | | 189,20 € | |



KNX SENSORS - TEMPERATURE

| WEB CODE | 6137 | 6138 | 6139 | | | |
|-------------------|--|--|--|-----------------------|-------------|-----------------------|
| IMAGE |  |  |  | | | |
| ARTICLE NUMBER | 30101024 | 30101025 | 30101026 | | | |
| MANUFACTURER REF. | SK01-T-ETF2 250 mm V4A | SK01-T-ETF2 300 mm V4A | SK01-T-ETF2 400 mm V4A | | | |
| DESCRIPTION 1 | SK01 WITH SCREW-IN IMMERSION PROBE, IMMERSION SLEEVE V4A | SK01 WITH SCREW-IN IMMERSION PROBE, IMMERSION SLEEVE V4A | SK01 WITH SCREW-IN IMMERSION PROBE, IMMERSION SLEEVE V4A | | | |
| DESCRIPTION 2 | THE PT1000 SENSOR IS IN A V4A STEEL SHEATH TUBE (Ø 6MM), WHICH IS INSIDE A V4A IMMERSION SLEEVE (Ø 8MM) (MAX. PRESSURE 40 BAR) | THE PT1000 SENSOR IS IN A V4A STEEL SHEATH TUBE (Ø 6MM), WHICH IS INSIDE A V4A IMMERSION SLEEVE (Ø 8MM) (MAX. PRESSURE 40 BAR) | THE PT1000 SENSOR IS IN A V4A STEEL SHEATH TUBE (Ø 6MM), WHICH IS INSIDE A V4A IMMERSION SLEEVE (Ø 8MM) (MAX. PRESSURE 40 BAR) | | | |
| TEMPERATURE RANGE | -30...+150°C | -30...+150°C | -30...+150°C | | | |
| INSTALLATION | ON-WALL, OUTDOOR, DAMP ROOM, IP65 | ON-WALL, OUTDOOR, DAMP ROOM, IP65 | ON-WALL, OUTDOOR, DAMP ROOM, IP65 | | | |
| APPLICATION | LIQUID OR GASEOUS MEDIA, IN HEATING PLANTS, CIRCULATION AND CLIMATE TECHNOLOGY | LIQUID OR GASEOUS MEDIA, IN HEATING PLANTS, CIRCULATION AND CLIMATE TECHNOLOGY | LIQUID OR GASEOUS MEDIA, IN HEATING PLANTS, CIRCULATION AND CLIMATE TECHNOLOGY | | | |
| CONNECTION CABLE | | | | | | |
| PROBLE | MAT. V4A | DIM. G1/2", 250 mm | MAT. V4A | DIM. G1/2", 300 mm | MAT. V4A | DIM. G1/2", 400 mm |
| SEALING | IP65 | | IP65 | | IP65 | |
| LISTPRICE | 190,50 € | | 196,10 € | | 197,90 € | |



KNX SENSORS - TEMPERATURE

| WEB CODE | 9995 | 9996 | 9997 |
|-------------------|--|--|--|
| IMAGE |  |  |  |
| ARTICLE NUMBER | 30101027 | 30101028 | 30101029 |
| MANUFACTURER REF. | SK01-T-ETF3 50 mm | SK01-T-ETF3 100 mm | SK01-T-ETF3 150 mm |
| DESCRIPTION 1 | SK01 WITH SCREW-IN/IMMERSION PROBE. IMMERSION SLEEVE WITH EXTENDED SHAFT V4A | SK01 WITH SCREW-IN/IMMERSION PROBE. IMMERSION SLEEVE WITH EXTENDED SHAFT V4A | SK01 WITH SCREW-IN/IMMERSION PROBE. IMMERSION SLEEVE WITH EXTENDED SHAFT V4A |
| DESCRIPTION 2 | THE PT1000 SENSOR IS IN A V4A STEEL SHEATH TUBE (Ø 6MM), WHICH IS INSIDE A V4A STAINLESS STEEL IMMERSION SLEEVE (MAX. PRESSURE 40 BAR) | THE PT1000 SENSOR IS IN A V4A STEEL SHEATH TUBE (Ø 6MM), WHICH IS INSIDE A V4A STAINLESS STEEL IMMERSION SLEEVE (MAX. PRESSURE 40 BAR) | THE PT1000 SENSOR IS IN A V4A STEEL SHEATH TUBE (Ø 6MM), WHICH IS INSIDE A V4A STAINLESS STEEL IMMERSION SLEEVE (MAX. PRESSURE 40 BAR) |
| TEMPERATURE RANGE | -30...+150°C | -30...+150°C | -30...+150°C |
| INSTALLATION | ON-WALL, OUTDOOR, DAMP ROOM, IP65 | ON-WALL, OUTDOOR, DAMP ROOM, IP65 | ON-WALL, OUTDOOR, DAMP ROOM, IP65 |
| APPLICATION | | | |
| CONNECTION CABLE | | | |
| PROBLE | MAT. V4A DIM. G1/2", 50 mm | MAT. V4A DIM. G1/2", 100 mm | MAT. V4A DIM. G1/2", 150 mm |
| SEALING | IP65 | IP65 | IP65 |
| LISTPRICE | 199,00 € | 199,60 € | 200,85 € |

KNX SENSORS - TEMPERATURE 

KNX SENSORS - TEMPERATURE

| WEB CODE | 9998 | 9999 | 10000 | | | | | | | | | | | | |
|-------------------|---|--|--|------|---------------|------|------|-----|---------------|-----|---------------|-----|---------------|--|--|
| IMAGE |  |  |  | | | | | | | | | | | | |
| ARTICLE NUMBER | 30101030 | 30101031 | 30101032 | | | | | | | | | | | | |
| MANUFACTURER REF. | SK01-T-ETF3 200 mm | SK01-T-ETF3 250 mm | SK01-T-ETF3 300 mm | | | | | | | | | | | | |
| DESCRIPTION 1 | SK01 WITH SCREW-IN/IMMERSION PROBE. IMMERSION SLEEVE WITH EXTENDED SHAFT V4A | SK01 WITH SCREW-IN/IMMERSION PROBE. IMMERSION SLEEVE WITH EXTENDED SHAFT V4A | SK01 WITH SCREW-IN/IMMERSION PROBE. IMMERSION SLEEVE WITH EXTENDED SHAFT V4A | | | | | | | | | | | | |
| DESCRIPTION 2 | THE PT1000 SENSOR IS IN A V4A STEEL SHEATH TUBE (Ø 6MM), WHICH IS INSIDE A V4A STAINLESS STEEL IMMERSION SLEEVE (MAX. PRESSURE 40 BAR) | THE PT1000 SENSOR IS IN A V4A STEEL SHEATH TUBE (Ø 6MM), WHICH IS INSIDE A V4A STAINLESS STEEL IMMERSION SLEEVE (MAX. PRESSURE 40 BAR) | THE PT1000 SENSOR IS IN A V4A STEEL SHEATH TUBE (Ø 6MM), WHICH IS INSIDE A V4A STAINLESS STEEL IMMERSION SLEEVE (MAX. PRESSURE 40 BAR) | | | | | | | | | | | | |
| TEMPERATURE RANGE | -30...+150°C | -30...+150°C | -30...+150°C | | | | | | | | | | | | |
| INSTALLATION | ON-WALL, OUTDOOR, DAMP ROOM, IP65 | ON-WALL, OUTDOOR, DAMP ROOM, IP65 | ON-WALL, OUTDOOR, DAMP ROOM, IP65 | | | | | | | | | | | | |
| APPLICATION | | | | | | | | | | | | | | | |
| CONNECTION CABLE | | | | | | | | | | | | | | | |
| PROBLE | <table border="1"> <thead> <tr> <th>MAT.</th> <th>DIM.</th> <th>MAT.</th> <th>DIM.</th> <th>MAT.</th> <th>DIM.</th> </tr> </thead> <tbody> <tr> <td>V4A</td> <td>G1/2", 200 mm</td> <td>V4A</td> <td>G1/2", 250 mm</td> <td>V4A</td> <td>G1/2", 300 mm</td> </tr> </tbody> </table> | MAT. | DIM. | MAT. | DIM. | MAT. | DIM. | V4A | G1/2", 200 mm | V4A | G1/2", 250 mm | V4A | G1/2", 300 mm | | |
| MAT. | DIM. | MAT. | DIM. | MAT. | DIM. | | | | | | | | | | |
| V4A | G1/2", 200 mm | V4A | G1/2", 250 mm | V4A | G1/2", 300 mm | | | | | | | | | | |
| SEALING | IP65 | IP65 | IP65 | | | | | | | | | | | | |
| LISTPRICE | 202,40 € | 203,50 € | 207,10 € | | | | | | | | | | | | |



KNX SENSORS - TEMPERATURE

| WEB CODE | 10001 | 10002 | 10003 | | | |
|-------------------|--|---|---|-----------------------|-------------|-----------------------|
| IMAGE |  |  |  | | | |
| ARTICLE NUMBER | 30101033 | 30101034 | 30101035 | | | |
| MANUFACTURER REF. | SK01-T-ETF3 400 mm | SK01-T-ETF7 100 mm | SK01-T-ETF7 150 mm | | | |
| DESCRIPTION 1 | SK01 WITH SCREW-IN/IMMERSION PROBE. IMMERSION SLEEVE WITH EXTENDED SHAFT V4A | SK01 WITH SCREW-IN/IMMERSION PROBE WITH EXTENDED SHAFT WITH NECK TUBE FOR QUICK RESPONSIVITY | SK01 WITH SCREW-IN/IMMERSION PROBE WITH EXTENDED SHAFT WITH NECK TUBE FOR QUICK RESPONSIVITY | | | |
| DESCRIPTION 2 | THE PT1000 SENSOR IS IN A V4A STEEL SHEATH TUBE (Ø 6MM), WHICH IS INSIDE A V4A STAINLESS STEEL IMMERSION SLEEVE (MAX. PRESSURE 40 BAR) | TEMPERATURE PROBE (PT1000) WITH NECK TUBE AND PLAIN TAPERED SHEATH TUBE, VERY QUICK RESPONSE TIME. PIPE LENGTH: 25MM PROTECTIVE MATERIAL: STAINLESS STEEL 1.4571 PIPE MEASUREMENTS: Ø=6MM, PLAIN TAPERED Ø=4MM | TEMPERATURE PROBE (PT1000) WITH NECK TUBE AND PLAIN TAPERED SHEATH TUBE, VERY QUICK RESPONSE TIME. PIPE LENGTH: 25MM PROTECTIVE MATERIAL: STAINLESS STEEL 1.4571 PIPE MEASUREMENTS: Ø=6MM, PLAIN TAPERED Ø=4MM | | | |
| TEMPERATURE RANGE | -30...+150°C | -35...+150 °C | -35...+150 °C | | | |
| INSTALLATION | ON-WALL, OUTDOOR, DAMP ROOM, IP65 | ON-WALL, OUTDOOR, DAMP ROOM, IP65 | ON-WALL, OUTDOOR, DAMP ROOM, IP65 | | | |
| APPLICATION | | ESPECIALLY SUITABLE FOR VERY SWIFT TEMPERATURE AND CONTROL PROCESSES SUCH AS HOT WATER SYSTEMS | ESPECIALLY SUITABLE FOR VERY SWIFT TEMPERATURE AND CONTROL PROCESSES SUCH AS HOT WATER SYSTEMS | | | |
| CONNECTION CABLE | | | | | | |
| PROBLE | MAT. V4A | DIM. G1/2", 400 mm | MAT. V4A | DIM. G1/2", 100 mm | MAT. V4A | DIM. G1/2", 150 mm |
| SEALING | IP65 | | IP65 | | IP65 | |
| LISTPRICE | 209,40 € | | 265,30 € | | 267,05 € | |



KNX SENSORS - TEMPERATURE

| WEB CODE | 10004 | 10005 | 10006 |
|-------------------|---|--|---|
| IMAGE |  |  |  |
| ARTICLE NUMBER | 30101036 | 30101037 | 30101038 |
| MANUFACTURER REF. | SK01-T-ETF7 250 mm | SK01-T-KTF1 50 mm | SK01-T-KTF1 100 mm |
| DESCRIPTION 1 | SK01 WITH SCREW-IN/IMMERSION PROBE WITH EXTENDED SHAFT WITH NECK TUBE FOR QUICK RESPONSIVITY | SK01 WITH DUCT/AIR DUCT PROBE INCL. MOUNTING FLANGE V4A | SK01 WITH DUCT/AIR DUCT PROBE INCL. MOUNTING FLANGE V4A |
| DESCRIPTION 2 | TEMPERATURE PROBE (PT1000) WITH NECK TUBE AND PLAIN TAPERED SHEATH TUBE, VERY QUICK RESPONSE TIME. PIPE LENGTH: 25MM PROTECTIVE MATERIAL: STAINLESS STEEL 1.4571 PIPE MEASUREMENTS: Ø=6MM, PLAIN TAPERED Ø=4MM | THE PT1000 SENSOR IS IN A V4A STEEL SHEATH TUBE (Ø 6MM) | THE PT1000 SENSOR IS IN A V4A STEEL SHEATH TUBE (Ø 6MM) |
| TEMPERATURE RANGE | -35...+150 °C | -30...+150°C | -30...+150°C |
| INSTALLATION | ON-WALL, OUTDOOR, DAMP ROOM, IP65 | ON-WALL, OUTDOOR, DAMP ROOM, IP65 | ON-WALL, OUTDOOR, DAMP ROOM, IP65 |
| APPLICATION | ESPECIALLY SUITABLE FOR VERY SWIFT TEMPERATURE AND CONTROL PROCESSES SUCH AS HOT WATER SYSTEMS | AIR DUCTS AND HEATING AND CLIMATE TECHNOLOGY | AIR DUCTS AND HEATING AND CLIMATE TECHNOLOGY |
| CONNECTION CABLE | | | |
| PROBLE | MAT. V4A DIM. G1/2", 250 mm | MAT. V4A DIM. 50 mm | MAT. V4A DIM. 100 mm |
| SEALING | IP65 | IP65 | IP65 |
| LISTPRICE | 269,65 € | 174,10 € | 174,50 € |



KNX SENSORS - TEMPERATURE

| WEB CODE | 10007 | 8880 | 10008 | | | |
|-------------------|---|--|---|----------------|-------------|----------------|
| IMAGE |  |  |  | | | |
| ARTICLE NUMBER | 30101039 | 30101040 | 30101041 | | | |
| MANUFACTURER REF. | SK01-T-KTF1 150 mm | SK01-T-KTF1 200 mm | SK01-T-KTF1 250 mm | | | |
| DESCRIPTION 1 | SK01 WITH DUCT/AIR DUCT PROBE INCL. MOUNTING FLANGE V4A | SK01 WITH DUCT/AIR DUCT PROBE INCL. MOUNTING FLANGE V4A | SK01 WITH DUCT/AIR DUCT PROBE INCL. MOUNTING FLANGE V4A | | | |
| DESCRIPTION 2 | THE PT1000 SENSOR IS IN A V4A STEEL SHEATH TUBE (Ø 6MM) | THE PT1000 SENSOR IS IN A V4A STEEL SHEATH TUBE (Ø 6MM) | THE PT1000 SENSOR IS IN A V4A STEEL SHEATH TUBE (Ø 6MM) | | | |
| TEMPERATURE RANGE | -30...+150°C | -30...+150°C | -30...+150°C | | | |
| INSTALLATION | ON-WALL, OUTDOOR, DAMP ROOM, IP65 | ON-WALL, OUTDOOR, DAMP ROOM, IP65 | ON-WALL, OUTDOOR, DAMP ROOM, IP65 | | | |
| APPLICATION | AIR DUCTS AND HEATING AND CLIMATE TECHNOLOGY | AIR DUCTS AND HEATING AND CLIMATE TECHNOLOGY | AIR DUCTS AND HEATING AND CLIMATE TECHNOLOGY | | | |
| CONNECTION CABLE | | | | | | |
| PROBLE | MAT. V4A | DIM. 150 mm | MAT. V4A | DIM. 200 mm | MAT. V4A | DIM. 250 mm |
| SEALING | IP65 | | IP65 | | IP65 | |
| LISTPRICE | 175,00 € | | 175,62 € | | 178,10 € | |



KNX SENSORS - TEMPERATURE

| WEB CODE | 9165 | 9093 | 10009 | | | |
|-------------------|---|--|---|-------------|------------------------------|-------------------------|
| IMAGE |  |  |  | | | |
| ARTICLE NUMBER | 30101042 | 30101043 | 30101050 | | | |
| MANUFACTURER REF. | SK01-T-KTF1 300 mm | SK01-T-KTF1 400 mm | SK01-T-RPTF1 | | | |
| DESCRIPTION 1 | SK01 WITH DUCT/AIR DUCT PROBE INCL. MOUNTING FLANGE V4A | SK01 WITH DUCT/AIR DUCT PROBE INCL. MOUNTING FLANGE V4A | SK01 WITH PENDULUM ROOM PROBE | | | |
| DESCRIPTION 2 | THE PT1000 SENSOR IS IN A V4A STEEL SHEATH TUBE (Ø 6MM) | THE PT1000 SENSOR IS IN A V4A STEEL SHEATH TUBE (Ø 6MM) | TEMPERATURE SENSOR PT1000 IS IN SHEATH TUBE | | | |
| TEMPERATURE RANGE | -30...+150°C | -30...+150°C | -30...+75 °C | | | |
| INSTALLATION | ON-WALL, OUTDOOR, DAMP ROOM, IP65 | ON-WALL, OUTDOOR, DAMP ROOM, IP65 | ON-WALL, OUTDOOR, DAMP ROOM, IP65 | | | |
| APPLICATION | AIR DUCTS AND HEATING AND CLIMATE TECHNOLOGY | AIR DUCTS AND HEATING AND CLIMATE TECHNOLOGY | ESPECIALLY DESIGNED FOR ROOMS WITH A HIGH CEILING | | | |
| CONNECTION CABLE | | | MAT. DIM. PVC 1,5 m | | | |
| PROBLE | MAT. V4A | DIM. 300 mm | MAT. V4A | DIM. 400 mm | MAT. ACERO INOXIDABLE 1.4571 | DIM. 100 mm, M12/1,5 mm |
| SEALING | IP65 | | IP65 | | IP65 | |
| LISTPRICE | 179,80 € | | 182,10 € | | 191,50 € | |



KNX SENSORS - TEMPERATURE

| WEB CODE | 10010 | 7715 | 6075 |
|-------------------|---|---|--|
| IMAGE | | | |
| ARTICLE NUMBER | 30101051 | 30102201 | 30103201 |
| MANUFACTURER REF. | SK01-T-RPTF2 | SK02-T | SK03-T WHITE |
| DESCRIPTION 1 | SK01 WITH PENDULUM ROOM PROBE (GLOBE THERMOMETER) | TEMPERATURE PROBE INTEGRATED IN BOX | TEMPERATURE PROBE INTEGRATED IN BOX |
| DESCRIPTION 2 | TEMPERATURE SENSOR PT1000 IS IN A BLACK PLASTIC BALL (Ø 50 MM). DARK RADIATION PROBE DETECTS RADIATION AND RADIATION WARMTH | DETECTION AND CONTROL OF ROOM TEMPERATURE | DETECTION AND CONTROL OF ROOM TEMPERATURE. COMPATIBLE WITH SWITCHING SYSTEMS (E.G. GIRA, MERTEN IN STANDARD 55MM) |
| TEMPERATURE RANGE | -30...+80 °C | -25...+55°C | -25...+55°C |
| INSTALLATION | ON-WALL, OUTDOOR, DAMP ROOM, IP65 | ON-WALL, INDOOR | IN-WALL, INDOOR |
| APPLICATION | ESPECIALLY DESIGNED FOR ROOMS WITH A HIGH CEILING | IN HOMES, HOTELS, OFFICES, EXHIBITION AREAS AND SCHOOLS | IN HOMES, HOTELS, OFFICES, EXHIBITION AREAS AND SCHOOLS |
| CONNECTION CABLE | MAT. PVC | DIM. 1,5 m | |
| PROBLE | MAT. BLACK PLASTIC BALL | DIM. Ø = 50 mm | |
| SEALING | IP65 | IP20 | IP20 |
| LISTPRICE | 189,50 € | 156,00 € | 153,00 € |



KNX SENSORS - TEMPERATURE

| | | | |
|-------------------|---|--|--|
| WEB CODE | 6076 | 9917 | |
| IMAGE |  |  | |
| ARTICLE NUMBER | 30103202 | 30801000 | |
| MANUFACTURER REF. | SK03-T ANTHRACITE | SK08-T8 | |
| DESCRIPTION 1 | TEMPERATURE PROBE INTEGRATED IN BOX | MULTIPLE-PT1000 8 CHANNEL | |
| DESCRIPTION 2 | DETECTION AND CONTROL OF ROOM TEMPERATURE. COMPATIBLE WITH SWITCHING SYSTEMS (E.G. GIRA, MERTEN IN STANDARD 55MM) | KNX CONTROLLER 8 CHANNEL TEMPERATURE FOR MEASURING AND CONTROLLING UP TO 8 TEMPERATURES BOTH OUTDOORS AND (DAMP) INDOORS (IP 65) | |
| TEMPERATURE RANGE | -25...+55°C | | |
| INSTALLATION | IN-WALL, INDOOR | INDOOR/OUTDOOR | |
| APPLICATION | IN HOMES, HOTELS, OFFICES, EXHIBITION AREAS AND SCHOOLS | | |
| CONNECTION CABLE | | | |
| PROBLE | | | |
| SEALING | IP20 | IP65 | |
| LISTPRICE | 153,00 € | 298,00 € | |



TECHNICAL DATA

KNX SENSORS - TEMPERATURE/HUMIDITY/CLIMATE

Sensors with integrated KNX bus coupler for measuring and regulating temperature and humidity.

Auxiliary voltage is not necessary.

ETS Application:

- Measured values of temperature and relative humidity.
- PI or two-position controller for temperature with steady or PWM output.
- Two-position controller for relative humidity.
- Actual value adjustment for temperature and relative humidity- Measured values of temperature and relative humidity.
- Various operating methods for temperature control: relative RTC, absolute RTC, standard.
- Maximum thresholds alarm with presetting via KNX Bus: humidity, temperature.
- Minimum/Maximum temperature saved.
- Adjustable frost protection alarm.
- Dew point alarm and dew point control.
- Post-adjustment of all standards and limits.
- Text displayed when entering/leaving the comfort field.
- Values displayed: absolute humidity, dew point temperature, enthalpy.



KNX SENSORS - TEMPERATURE/HUMIDITY/CLIMATE



KNX SENSORS - TEMPERATURE/HUMIDITY/CLIMATE

SENSOR: SENSIRION SHT71 / SHT11

| WEB CODE | 6090 | 10015 | 10016 |
|-----------------------------|--|--|--|
| IMAGE |  |  |  |
| ARTICLE NUMBER | 30301053 | 30301054 | 30301056 |
| MANUFACTURER REF. | SK01-TFK-AFF | SK01-TFK-RPFF | SK01-TFK-MMF |
| DESCRIPTION 1 | SK01 WITH EXTERNAL PROBE | SK01 WITH PENDULUM ROOM PROBE | SK01 WITH PENDULUM ROOM PROBE |
| DESCRIPTION 2 | THE PROBE IS PROTECTED FROM CONDENSATION AND DUST BY A POROPLAST PROTECTIVE COATING | THE PROBE IS PROTECTED FROM CONDENSATION AND DUST BY A POROPLAST PROTECTIVE COATING | THE PROBE IS PROTECTED FROM CONDENSATION AND DUST BY A HYDROGAS METAL MEMBRANE FILTER |
| OPERATING RANGE TEMPERATURE | | | |
| TEMP. | -20...+80°C | -20...+80°C | -20...+80°C |
| HUMIDITY | 10...90% r.H. | 0...100% r.H. | 0...100% r.H. |
| INSTALLATION | INDOOR/OUTDOOR AND DAMP LOCATIONS | INDOOR/OUTDOOR AND DAMP LOCATIONS | INDOOR/OUTDOOR AND DAMP LOCATIONS |
| APPLICATION | BUILDING AUTOMATION, REFRIGERATION, AIR-CONDITIONING AND VENTILATION SYSTEMS, CLEAN ROOMS, GREENHOUSES, ETC. | BUILDING AUTOMATION, REFRIGERATION, AIR-CONDITIONING, VENTILATION AND CLEAN ROOM TECHNOLOGY, GREENHOUSES, HALLS WITH HIGH CEILINGS | BUILDING AUTOMATION, REFRIGERATION, AIR-CONDITIONING, VENTILATION AND CLEAN ROOM TECHNOLOGY, GREENHOUSES, HALLS WITH HIGH CEILINGS |
| CONNECTION CABLE LENGTH | 2 m | 2 m | 2 m |
| PROBLE LENGTH | 45 mm | 100 m | 100 m |
| SEALING | IP65 | IP65 | IP65 |
| LISTPRICE | 222,00 € | 264,00 € | 297,00 € |



KNX SENSORS - TEMPERATURE/HUMIDITY/CLIMATE

SENSOR: SENSIRION SHT71 / SHT11

| | | | |
|-----------------------------|--|--|---|
| WEB CODE | 10117 | 5881 | 6079 |
| IMAGE |  |  |  |
| ARTICLE NUMBER | 30301057 | 30302201 | 30303201 |
| MANUFACTURER REF. | SK01-TFK-KFF | SK02-TFK | SK03-TFK WHITE |
| DESCRIPTION 1 | SK01 WITH DUCT PROBE | SENSOR INTEGRATED IN BOX | SENSOR INTEGRATED IN BOX |
| DESCRIPTION 2 | THE PROBE IS PROTECTED FROM CONDENSATION AND DUST BY A POROPLAST PROTECTIVE COATING | DETECTING AND CONTROLLING ROOM CLIMATE | DETECTING AND CONTROLLING ROOM CLIMATE. COMPATIBLE WITH SWITCHING SYSTEMS (E.G. GIRA, MERTEN IN STANDARD 55MM) |
| OPERATING RANGE TEMPERATURE | -20...+80°C | -25...+55°C | |
| TEMP. | | | |
| HUMIDITY | 10...90% r.H. | | |
| INSTALLATION | INDOOR/OUTDOOR AND DAMP LOCATIONS | ON-WALL, INDOOR | IN-WALL, INDOOR |
| APPLICATION | REGULATION IN HEATING SYSTEMS FOR CONSTANT KNX VALVES OR ELECTROTHERMAL VALVES, LOCAL AIR-REGULATION | DETECTING/CONTROLLING ROOM TEMPERATURE IN HOMES, HOTELS, OFFICES, EXHIBITION AREAS AND SCHOOLS | DETECTING AND CONTROLLING ROOM CLIMATE IN HOMES, HOTELS, OFFICES, EXHIBITION AREAS AND SCHOOLS |
| CONNECTION CABLE LENGTH | | | |
| PROBLE LENGTH | 230 mm | | |
| SEALING | IP65 | IP20 | IP20 |
| LISTPRICE | 248,00 € | 196,00 € | 193,00 € |



KNX SENSORS - TEMPERATURE/HUMIDITY/CLIMATE



KNX SENSORS - TEMPERATURE/HUMIDITY/CLIMATE

SENSOR: SENSIRION SHT71 / SHT11

| | | | |
|-----------------------------|--|--|--|
| WEB CODE | 6080 | | |
| IMAGE |  | | |
| ARTICLE NUMBER | 30303202 | | |
| MANUFACTURER REF. | SK03-TFK ANTHRACITE | | |
| DESCRIPTION 1 | SENSOR INTEGRATED IN BOX | | |
| DESCRIPTION 2 | <p>DETECTING AND CONTROLLING ROOM CLIMATE.</p> <p>COMPATIBLE WITH SWITCHING SYSTEMS (E.G. GIRA, MERTEN IN STANDARD 55MM)</p> | | |
| OPERATING RANGE TEMPERATURE | | | |
| TEMP. | -25...+55°C | | |
| HUMIDITY | | | |
| INSTALLATION | IN-WALL, INDOOR | | |
| APPLICATION | DETECTING AND CONTROLLING ROOM CLIMATE IN HOMES, HOTELS, OFFICES, EXHIBITION AREAS AND SCHOOLS | | |
| CONNECTION CABLE LENGTH | | | |
| PROBLE LENGTH | | | |
| SEALING | IP20 | | |
| LISTPRICE | 193,00 € | | |



TECHNICAL DATA

KNX SENSORS - TEMPERATURE/TEMPERATURE/HUMIDITY/CLIMATE

Sensors with integrated KNX Bus Coupler for measuring and regulating temperature and humidity.

WITH CONNECTOR FOR ADDITIONAL PT1000-PROBE.

AN ADDITIONAL PT1000 SENSOR (NOT INCLUDED IN DELIVERY) FOR SURFACE, SCREW-IN OR CONTACTING SENSOR WITH CUSTOMIZED CABLE-LENGTH CAN BE ORDERED.



No auxiliary voltage necessary.

ETS-Application:

- Measured values of temperature and relative humidity (Sensirion-Sensor).
- PI or two-position controller for temperature with steady or PWM output.
- Two-position controller for relative humidity.
- Various operating methods for temperature control: relative RTC, absolute RTC, standard.
- Maximum thresholds alarm with presetting via KNX Bus: humidity, temperature.
- Minimum/Maximum temperature saved.
- Adjustable frost protection alarm.
- Dew point alarm and dew point control.
- Post-adjustment of all standards and limits.
- Text displayed when entering/leaving the comfort field.
- Values displayed: absolute humidity, dew point temperature, enthalpy.
- Actual value adjustment for temperature and relative humidity.
- Measured value of the second temperature (additional sensor PT1000) with two-position controller.

The additional temperature reading is especially useful in preventing structural damage. The SK01-TTFK-E-53 calculates the dew point temperature with its integrated probe by measuring the room temperature and humidity content. The additional external sensor is placed directly on the coldest part of the structure and activates an alarm or makes an adjustment when the dew point temperature is reached.



KNX SENSORS - TEMPERATURE/TEMPERATURE/HUMIDITY/CLIMATE



KNX SENSORS - TEMPERATURE/TEMPERATURE/HUMIDITY/CLIMATE

SENSOR: SHT11/PT1000

| WEB CODE | 6091 | 10046 | 10047 |
|-----------------------------|--|--|--|
| IMAGE |  |  |  |
| ARTICLE NUMBER | 30401053 | 30401054 | 30401056 |
| MANUFACTURER REF. | SK01-TTFK-AFF | SK01-TTFK-RPFF | SK01-TTFK-MMF |
| DESCRIPTION 1 | SK01 WITH EXTERNAL PROBE | SK01 WITH PENDULUM ROOM PROBE | SK01 WITH PENDULUM ROOM PROBE |
| DESCRIPTION 2 | THE TEMPERATURE/HUMIDITY PROBE IS PROTECTED FROM CONDENSATION AND DUST BY A POROPLAST PROTECTIVE COATING | THE PROBE IS PROTECTED FROM CONDENSATION AND DUST BY A POROPLAST PROTECTIVE COATING | THE PROBE IS PROTECTED FROM CONDENSATION AND DUST BY A HYDROGAS METAL MEMBRANE FILTER |
| OPERATING RANGE TEMPERATURE | | | |
| TEMP. | -25...+55°C | -25...+55°C | -25...+55°C |
| HUMIDITY | 0...100% r.H. | 0...100% r.H. | 0...100% r.H. |
| INSTALLATION | INDOOR/OUTDOOR AND DAMP LOCATIONS | INDOOR/OUTDOOR AND DAMP LOCATIONS | INDOOR/OUTDOOR AND DAMP LOCATIONS |
| APPLICATION | BUILDING AUTOMATION, REFRIGERATION, AIR-CONDITIONING AND VENTILATION TECHNOLOGY, GREENHOUSES ETC. | BUILDING AUTOMATION, REFRIGERATION, AIRCONDITIONING AND VENTILATION TECHNOLOGY, GREENHOUSES, IN HALLS WITH HIGH CEILINGS, ETC. | BUILDING AUTOMATION, REFRIGERATION, AIRCONDITIONING AND VENTILATION TECHNOLOGY, GREENHOUSES, IN HALLS WITH HIGH CEILINGS, ETC. |
| CONNECTION CABLE LENGTH | | 2 m | 2 m |
| PROBLE LENGTH | 45 mm, Ø = 14mm | 100 m | 100 m |
| SEALING | IP65 | IP65 | IP65 |
| LISTPRICE | 262,00 € | 300,00 € | 333,00 € |



KNX SENSORS - TEMPERATURE/TEMPERATURE/HUMIDITY/CLIMATE

SENSOR: SHT11/PT1000

| WEB CODE | 10048 | 8221 | 8222 |
|--------------------------------|---|--|--|
| IMAGE |  |  |  |
| ARTICLE NUMBER | 30401057 | 30403201 | 30403202 |
| MANUFACTURER REF. | SK01-TTFK-KFF | SK03-TTFK WHITE | SK03-TTFK ANTHRACITE |
| DESCRIPTION 1 | SK01 WITH DUCT PROBE | SENSOR INTEGRATED IN BOX | SENSOR INTEGRATED IN BOX |
| DESCRIPTION 2 | THE PROBE IS PROTECTED FROM CONDENSATION AND DUST BY A POROPLAST PROTECTIVE COATING | DETECTING AND CONTROLLING ROOM CLIMATE. COMPATIBLE WITH SWITCHING SYSTEMS (E.G. GIRA, MERTEN IN STANDARD 55MM). | DETECTING AND CONTROLLING ROOM CLIMATE. COMPATIBLE WITH SWITCHING SYSTEMS (E.G. GIRA, MERTEN IN STANDARD 55MM). |
| OPERATING RANGE TEMPERATURE | -20...+80°C | -25...+55°C | -25...+55°C |
| TEMP. | | | |
| HUMIDITY | 10...90% r.H. | 0...100% r.H. | 0...100% r.H. |
| INSTALLATION | INDOOR/OUTDOOR AND DAMP LOCATIONS | IN-WALL, INDOOR | IN-WALL, INDOOR |
| APPLICATION | DETECTION OF TEMPERATURE IN AIR DUCTS, LOCAL REGULATION IN HEATING SYSTEMS FOR CONSTANT KNX VALVES OR ELECTROTHERMAL VALVES, LOCAL AIR-REGULATION | IN HOMES, HOTELS, OFFICES, EXHIBITION AREAS AND SCHOOLS. | IN HOMES, HOTELS, OFFICES, EXHIBITION AREAS AND SCHOOLS. |
| CONNECTION CABLE LENGTH | | | |
| PROBLE LENGTH | 230 m | | |
| SEALING | IP65 | IP20 | IP20 |
| LISTPRICE | 284,00 € | 245,00 € | 245,00 € |



MOTION AND PRESENCE DETECTORS FROM B.E.G.

◆ Main features:

- ◆ Dimming version (BEG_DIM_HKL_V4.0) with 4 different modes: switching, dimming (constant light control), slave mode, permanent dimmer.
- ◆ Three set values.
- ◆ Reflection factor.
- ◆ HVAC channels with push button switchable.



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MOTION AND
PRESENCE DETECTORS

-- OCCUPANCY DETECTORS --

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-- WALL SWITCH --

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MOTION AND PRESENCE DETECTORS FROM B.E.G.

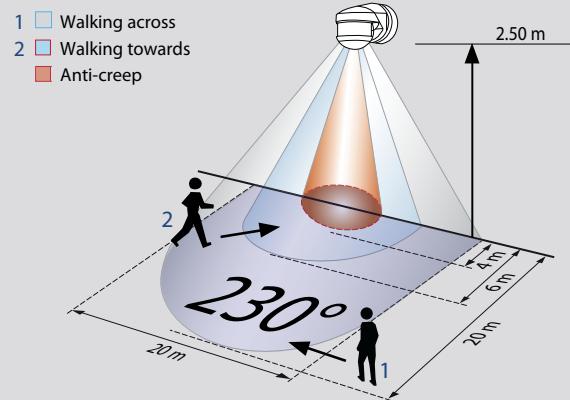

| POWER SUPPLY | DETECTION AREA | RANGE IN M (MAX.) | MOUNTING HEIGHT | POWER CONSUMPTION | PROTECTION TYPE | DIMENSIONS |
|--------------|----------------|-------------------|-----------------|-------------------|-----------------|------------|
|--------------|----------------|-------------------|-----------------|-------------------|-----------------|------------|

OUTDOOR MOTION DETECTOR

⇒ RC-plus next 230

| | | | | | | |
|----------------|------|------|--------|------|-----------------|-----------------------|
| 24VDC from KNX | 230° | 20 m | 2 - 3m | < 1W | IP54 / Class II | L 121 x W 71 x H 85mm |
|----------------|------|------|--------|------|-----------------|-----------------------|

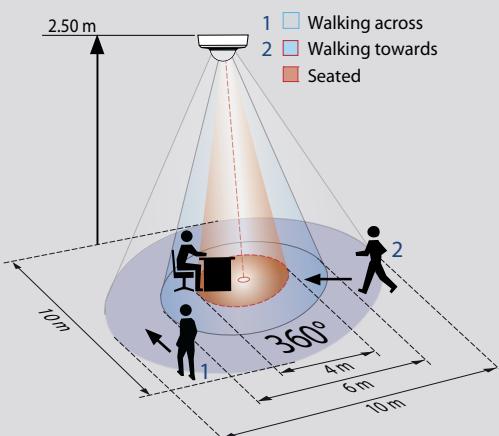
| WEB CODE | COLOUR | REF. NUMBER | LIST PRICE |
|----------|--------|-------------|------------|
| 10230 | white | 97052 | 223,51 € |
| 10702 | black | 97053 | 223,51 € |


OCCUPANCY DETECTORS

⇒ PD2-DIM-KNX/EIB

| | | | | | | | |
|----------------|----------------|---|--------|------|---|--|---|
| 24VDC from KNX | circular, 360° | Seated: 4m (radius 2m) Walking across: 10m (radius 5m) Walking towards: 6m (radius 3m) | 2 - 3m | < 1W | IP20 (with accessory IP54) Ø 98 x H 50mm | IP20 (with accessory IP23) Ø 80 x H 84.5mm | IP20 Ø 98 x H 65mm |
|----------------|----------------|---|--------|------|---|--|---|

| WEB CODE | MOUNTING | REF. NUMBER | LIST PRICE |
|----------|---------------|-------------|------------|
| 10235 | Surface | 92430 | 247,20 € |
| 10703 | False ceiling | 92431 | 233,60 € |
| 10704 | Flush mounted | 92432 | 233,60 € |





MOTION AND PRESENCE DETECTORS FROM B.E.G.

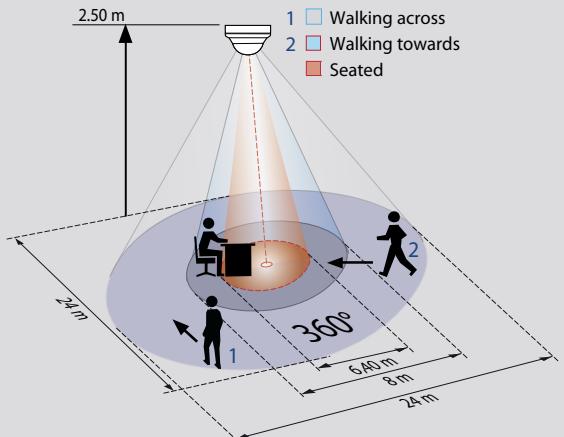


| POWER SUPPLY | DETECTION AREA | RANGE IN M (MAX.) | MOUNTING HEIGHT | POWER CONSUMPTION | PROTECTION TYPE | DIMENSIONS |
|--------------|----------------|-------------------|-----------------|-------------------|-----------------|------------|
|--------------|----------------|-------------------|-----------------|-------------------|-----------------|------------|

OCCUPANCY DETECTORS

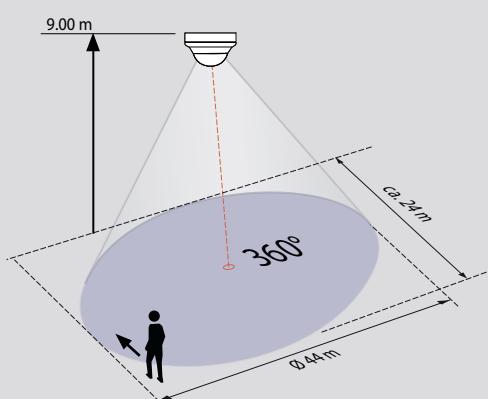
⇒ PD4-DIM-KNX/EIB

| 24VDC from KNX | circular, 360° | Seated: 6.4m (radius 3.2m) Walking across: 24m (radius 12m) Walking towards: 8m (radius 4m) | 2 - 3m | < 1W | IP20 (with accessory IP54) IP20 (with accessory IP23) IP20 | Ø 101 x H 63mm Ø 97 x H 103mm Ø 97 x H 84mm | | | | | | | | | | | | | | | | |
|---|----------------|--|------------|------|--|---|----------|----------|-------------|------------|-------|---------|-------|----------|-------|---------------|-------|----------|-------|---------------|-------|----------|
| <table border="1"> <thead> <tr> <th>WEB CODE</th> <th>MOUNTING</th> <th>REF. NUMBER</th> <th>LIST PRICE</th> </tr> </thead> <tbody> <tr> <td>10238</td> <td>Surface</td> <td>92433</td> <td>271,10 €</td> </tr> <tr> <td>10705</td> <td>False ceiling</td> <td>92434</td> <td>247,20 €</td> </tr> <tr> <td>10706</td> <td>Flush mounted</td> <td>92435</td> <td>247,20 €</td> </tr> </tbody> </table> <div style="display: flex; align-items: center; justify-content: center;">  </div> | | | | | | | WEB CODE | MOUNTING | REF. NUMBER | LIST PRICE | 10238 | Surface | 92433 | 271,10 € | 10705 | False ceiling | 92434 | 247,20 € | 10706 | Flush mounted | 92435 | 247,20 € |
| WEB CODE | MOUNTING | REF. NUMBER | LIST PRICE | | | | | | | | | | | | | | | | | | | |
| 10238 | Surface | 92433 | 271,10 € | | | | | | | | | | | | | | | | | | | |
| 10705 | False ceiling | 92434 | 247,20 € | | | | | | | | | | | | | | | | | | | |
| 10706 | Flush mounted | 92435 | 247,20 € | | | | | | | | | | | | | | | | | | | |



⇒ PD4-DIM-KNX/EIB-GH

| 24VDC from KNX | oval, 360° | Ø 44m | 2 - 10m | < 1W | IP20 (with accessory IP54) | Ø 98 x H 65mm | | | | | | | | |
|---|------------|-------------|------------|------|----------------------------|---------------|----------|----------|-------------|------------|-------|---------|-------|----------|
| <table border="1"> <thead> <tr> <th>WEB CODE</th> <th>MOUNTING</th> <th>REF. NUMBER</th> <th>LIST PRICE</th> </tr> </thead> <tbody> <tr> <td>10246</td> <td>Surface</td> <td>92454</td> <td>245,14 €</td> </tr> </tbody> </table> <div style="display: flex; align-items: center; justify-content: center;">  </div> | | | | | | | WEB CODE | MOUNTING | REF. NUMBER | LIST PRICE | 10246 | Surface | 92454 | 245,14 € |
| WEB CODE | MOUNTING | REF. NUMBER | LIST PRICE | | | | | | | | | | | |
| 10246 | Surface | 92454 | 245,14 € | | | | | | | | | | | |





MOTION AND PRESENCE DETECTORS FROM B.E.G.

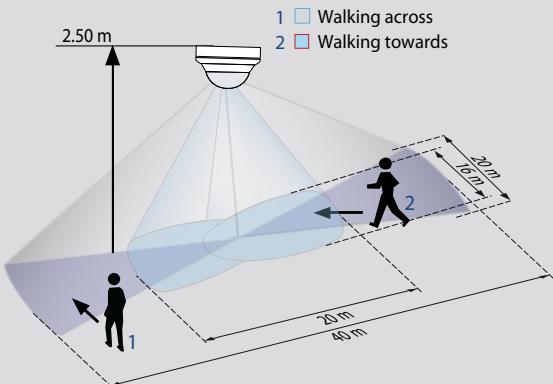


| POWER SUPPLY | DETECTION AREA | RANGE IN M (MAX.) | MOUNTING HEIGHT | POWER CONSUMPTION | PROTECTION TYPE | DIMENSIONS |
|--------------|----------------|-------------------|-----------------|-------------------|-----------------|------------|
|--------------|----------------|-------------------|-----------------|-------------------|-----------------|------------|

OCCUPANCY DETECTORS

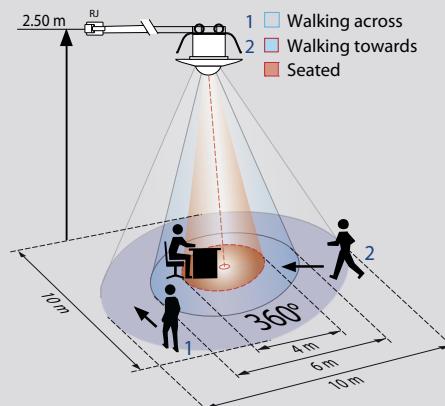
PD4-DIM-KNX/EIB-K

| | | | | | | | | | | | | | | | | | | |
|--|----------------|---|----------|------|------|--|-------|---------|-------|----------|-------|---------------|-------|----------|-------|---------------|-------|----------|
| 24VDC from KNX | circular, 360° | Walking across: 40m (radius 20m) Walking towards: 20m (radius 10m) | 2 - 3m | < 1W | IP20 | Ø 98 x H 65mm Ø 97 x H 103mm Ø 97 x H 84mm | | | | | | | | | | | | |
| <div style="display: flex; justify-content: space-between;"> <div style="width: 30%;"> <p>WEB CODE</p> <table> <tr><td>10419</td><td>Surface</td><td>92461</td><td>271,10 €</td></tr> <tr><td>10707</td><td>False ceiling</td><td>92456</td><td>247,20 €</td></tr> <tr><td>10708</td><td>Flush mounted</td><td>92459</td><td>247,20 €</td></tr> </table> </div> <div style="width: 70%;"> <p>MOUNTING</p> <p>REF. NUMBER</p> <p>LIST PRICE</p>  </div> </div> | | | | | | | 10419 | Surface | 92461 | 271,10 € | 10707 | False ceiling | 92456 | 247,20 € | 10708 | Flush mounted | 92459 | 247,20 € |
| 10419 | Surface | 92461 | 271,10 € | | | | | | | | | | | | | | | |
| 10707 | False ceiling | 92456 | 247,20 € | | | | | | | | | | | | | | | |
| 10708 | Flush mounted | 92459 | 247,20 € | | | | | | | | | | | | | | | |



PD9-DIM-KNX/EIB

| | | | | | | | | | | |
|--|----------------|---|----------|------|------|--|-------|---------------|-------|----------|
| 24VDC from KNX | circular, 360° | Seated: 4m (radius 2m) Walking across: 10m (radius 5m) Walking towards: 6m (radius 3m) | 2 - 3m | < 1W | IP20 | <p>Detector: Ø 45 x H 40mm Power supply: L 120 x W 29 x H 22mm</p> | | | | |
| <div style="display: flex; justify-content: space-between;"> <div style="width: 30%;"> <p>WEB CODE</p> <table> <tr><td>10245</td><td>False ceiling</td><td>92437</td><td>247,20 €</td></tr> </table> </div> <div style="width: 70%;"> <p>MOUNTING</p> <p>REF. NUMBER</p> <p>LIST PRICE</p>  </div> </div> | | | | | | | 10245 | False ceiling | 92437 | 247,20 € |
| 10245 | False ceiling | 92437 | 247,20 € | | | | | | | |





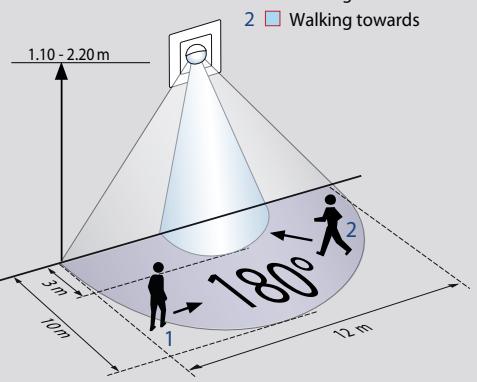
MOTION AND PRESENCE DETECTORS FROM B.E.G.



| POWER SUPPLY | DETECTION AREA | RANGE IN M (MAX.) | MOUNTING HEIGHT | POWER CONSUMPTION | PROTECTION TYPE | DIMENSIONS |
|--------------|----------------|-------------------|-----------------|-------------------|-----------------|------------|
|--------------|----------------|-------------------|-----------------|-------------------|-----------------|------------|

WALL SWITCH

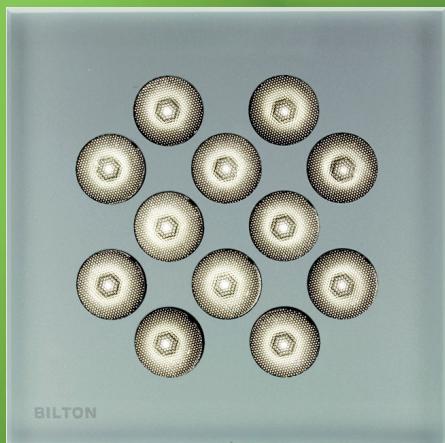
⇒ 180-DIM-KNX/EIB

| | | | | | | | |
|--|---------------------------|---|------------------------|------|---|-------------------------|--|
| 24VDC from KNX | semi circular, 180° | 10m | 1.1 - 2.2m | < 1W | IP20 with accessory (92139) also IP54 | L 86 x W 86 x D 44mm | |
| WEB CODE 10234 | MOUNTING Flush mounted | REF. NUMBER 92436 | LIST PRICE 221,45 € | | | | |
|   | |  <p>1 Walking across 2 Walking towards</p> | | | | | |



CATALOGUE OF BILTON LED LIGHTING

⇒ HIGH QUALITY LEDs



BILTON®
LED LIGHTING

Compilation of the most demanded LED lights and stripes of manufacturer Bilton. Please, contact us if you can not find here the solution you are looking for or even if you need a customized product.

10001010111010101110 / 10000101*/1011011/1010101
1000001000 / 10000111**** 1111// 1000010101011100/
//101011000101 //enter//100000100101101***

KNX®

INDEX



BILTON LED LIGHTING

| | | | |
|-----------------------------------|----------|------------|---------|
| PRINTET CIRCUIT BOARD FLEXIBLE | 4,8 W/m | IP 20 | Ø 108 Ø |
| | | IP 65 | Ø 108 Ø |
| | 7,2 W/m | IP 20 | Ø 109 Ø |
| | | IP 65 | Ø 109 Ø |
| | 14,4 W/m | IP 20 | Ø 110 Ø |
| | | IP 65 | Ø 110 Ø |
| LED LIGHTNING | | CUBE | Ø 111 Ø |
| | | GLOBE | Ø 113 Ø |
| | | TRIMLESS 1 | Ø 115 Ø |

| Ø | | + | BILTON LED LIGHTING | Ø | | | | |
|---------------|----------------|-------|---------------------|-----|----------------|------|--------|----|
| ADHESIVE TAPE | SEPARABLE EACH | LED/m | V DC | W/m | EMISSION ANGLE | WIDE | HEIGHT | IP |

SMD LED / PRINTET CIRCUIT BOARD FLEXIBLE · 18-FL-2448

| | | | | | | | | |
|---------|-------|----|----|-----|------|-------|------|----|
| tipo 3M | 50 mm | 60 | 24 | 4,8 | 120° | 10 mm | 4 mm | 20 |
|---------|-------|----|----|-----|------|-------|------|----|

| | Ref. | PVP/m |
|------------|--------------------|---------|
| AMBER | 18-FL-2448-IP20-A | 29,00 € |
| RED | 18-FL-2448-IP20-R | 29,00 € |
| GREEN | 18-FL-2448-IP20-G | 29,00 € |
| BLUE | 18-FL-2448-IP20-B | 29,00 € |
| WHITE | 18-FL-2448-IP20-NW | 29,00 € |
| WHITE WARM | 18-FL-2448-IP20-WW | 29,00 € |



| | | | | | | | | |
|---------|-------|----|----|-----|------|-------|------|----|
| tipo 3M | 50 mm | 60 | 24 | 4,8 | 120° | 10 mm | 5 mm | 65 |
|---------|-------|----|----|-----|------|-------|------|----|

| | Ref. | PVP/m |
|------------|--------------------|---------|
| AMBER | 18-FL-2448-IP65-A | 34,00 € |
| RED | 18-FL-2448-IP65-R | 34,00 € |
| GREEN | 18-FL-2448-IP65-G | 34,00 € |
| BLUE | 18-FL-2448-IP65-B | 34,00 € |
| WHITE | 18-FL-2448-IP65-NW | 34,00 € |
| WHITE WARM | 18-FL-2448-IP65-WW | 34,00 € |



| ADHESIVE TAPE | SEPARABLE EACH | LED/m | V DC | W/m | EMISSION ANGLE | WIDE | HEIGHT | IP |
|---------------|----------------|-------|------|-----|----------------|------|--------|----|
|---------------|----------------|-------|------|-----|----------------|------|--------|----|

SMD LED / PRINTET CIRCUIT BOARD FLEXIBLE · 18-FL-2472

| | | | | | | | | |
|---------|--------|----|----|-----|------|-------|------|----|
| tipo 3M | 100 mm | 30 | 24 | 7,2 | 120° | 10 mm | 4 mm | 20 |
|---------|--------|----|----|-----|------|-------|------|----|

| | Ref. | PVP/m |
|------------|---------------------|---------|
| AMBER | 18-FL-2472-IP20-A | 39,00 € |
| RED | 18-FL-2472-IP20-R | 39,00 € |
| GREEN | 18-FL-2472-IP20-G | 39,00 € |
| BLUE | 18-FL-2472-IP20-B | 39,00 € |
| WHITE | 18-FL-2472-IP20-NW | 39,00 € |
| WHITE WARM | 18-FL-2472-IP20-WW | 39,00 € |
| RGB | 18-FL-2472-IP20-RGB | 39,00 € |



| | | | | | | | | |
|---------|--------|----|----|-----|------|-------|------|----|
| tipo 3M | 100 mm | 30 | 24 | 7,2 | 120° | 10 mm | 4 mm | 65 |
|---------|--------|----|----|-----|------|-------|------|----|

| | Ref. | PVP/m |
|------------|---------------------|---------|
| AMBER | 18-FL-2472-IP65-A | 49,00 € |
| RED | 18-FL-2472-IP65-R | 49,00 € |
| GREEN | 18-FL-2472-IP65-G | 49,00 € |
| BLUE | 18-FL-2472-IP65-B | 49,00 € |
| WHITE | 18-FL-2472-IP65-NW | 49,00 € |
| WHITE WARM | 18-FL-2472-IP65-WW | 49,00 € |
| RGB | 18-FL-2472-IP65-RGB | 49,00 € |



| Ø | | + | BILTON LED LIGHTING | Ø | | | | |
|---------------|----------------|-------|---------------------|-----|----------------|------|--------|----|
| ADHESIVE TAPE | SEPARABLE EACH | LED/m | V DC | W/m | EMISSION ANGLE | WIDE | HEIGHT | IP |

SMD LED WITH POWER / PRINTED CIRCUIT BOARD FLEXIBLE · 18-FL-24144

| | | | | | | | | |
|---------|--------|----|----|------|------|-------|------|----|
| tipo 3M | 100 mm | 60 | 24 | 14,4 | 120° | 10 mm | 4 mm | 20 |
|---------|--------|----|----|------|------|-------|------|----|

| | Ref. | PVP/m |
|------------|----------------------|---------|
| AMBER | 18-FL-24144-IP20-A | 59,00 € |
| RED | 18-FL-24144-IP20-R | 59,00 € |
| GREEN | 18-FL-24144-IP20-G | 59,00 € |
| BLUE | 18-FL-24144-IP20-B | 59,00 € |
| WHITE | 18-FL-24144-IP20-NW | 59,00 € |
| WHITE WARM | 18-FL-24144-IP20-WW | 59,00 € |
| RGB | 18-FL-24144-IP20-RGB | 59,00 € |



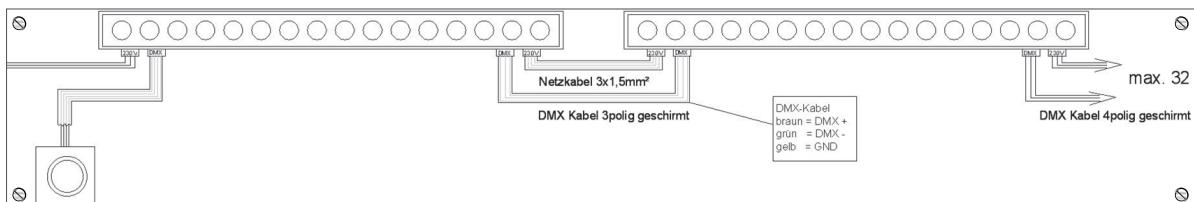
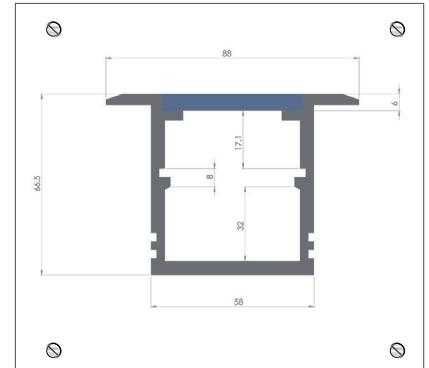
| | | | | | | | | |
|---------|--------|----|----|------|------|-------|------|----|
| tipo 3M | 100 mm | 60 | 24 | 14,4 | 120° | 10 mm | 4 mm | 65 |
|---------|--------|----|----|------|------|-------|------|----|

| | Ref. | PVP/m |
|------------|----------------------|---------|
| AMBER | 18-FL-24144-IP65-A | 64,00 € |
| RED | 18-FL-24144-IP65-R | 64,00 € |
| GREEN | 18-FL-24144-IP65-G | 64,00 € |
| BLUE | 18-FL-24144-IP65-B | 64,00 € |
| WHITE | 18-FL-24144-IP65-NW | 64,00 € |
| WHITE WARM | 18-FL-24144-IP65-WW | 64,00 € |
| RGB | 18-FL-24144-IP65-RGB | 64,00 € |



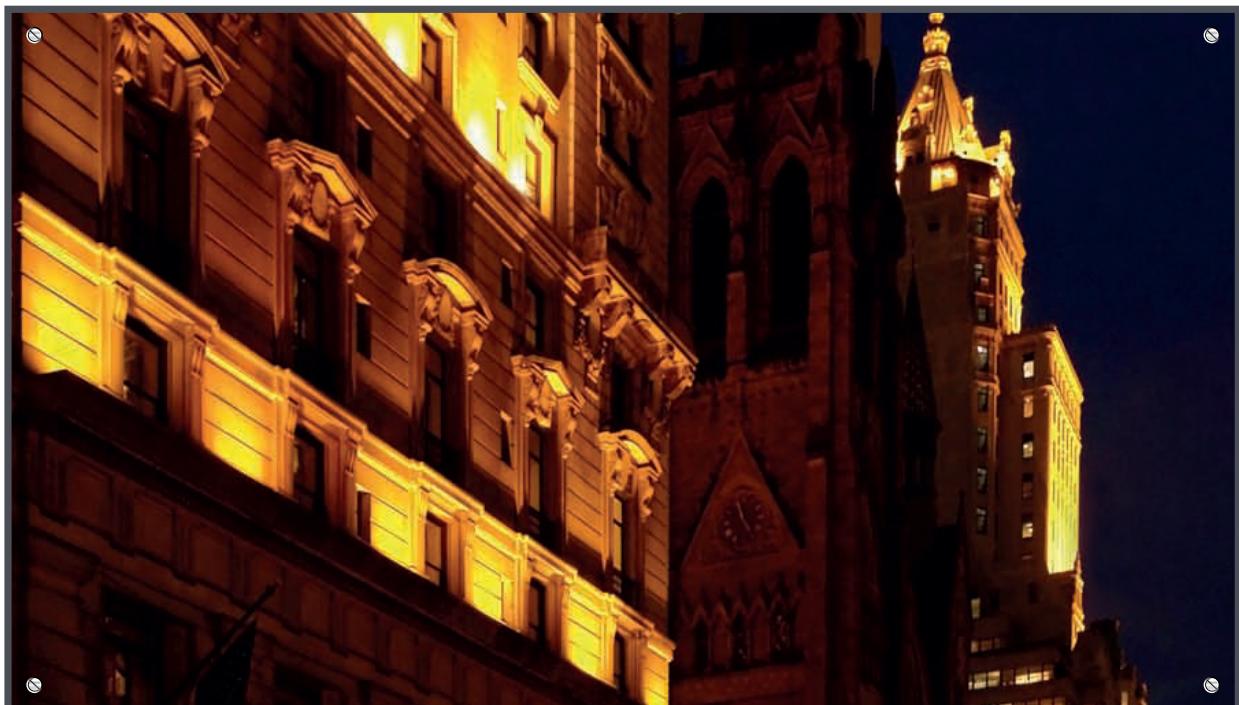
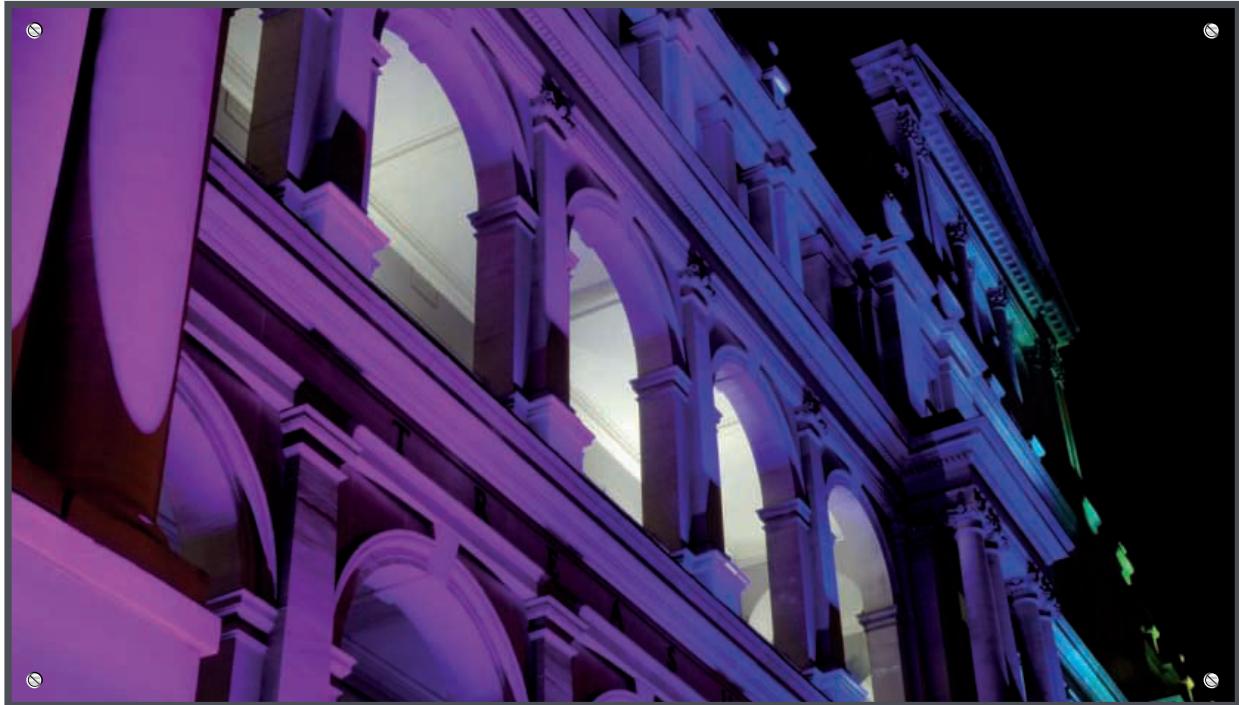

BILTON LED LIGHTING
LED LIGHTNING
CUBE

- Aluminium light form, high light yield using high power LEDs.
- RGB and single colour available, with various lenses.
- IP 65.


SINGLE 240 V

| ART. NR. | L mm | LED COLOUR | LIST PRICE |
|-----------|------|------------|------------|
| 95lm/W | | COLD WHITE | |
| 80-112898 | 400 | 1x12W | 659,00 |
| 80-124898 | 800 | 1x24W | 948,00 |
| 80-136898 | 1200 | 1x36W | 1.147,00 |
| 80lm/W | | WARM WHITE | |
| 80-112897 | 400 | 1x12W | 659,00 |
| 80-124897 | 800 | 1x24W | 948,00 |
| 80-136897 | 1200 | 1x36W | 1.147,00 |
| 36lm/W | | RED | |
| 80-112896 | 400 | 1x12W | 659,00 |
| 80-124896 | 800 | 1x24W | 948,00 |
| 80-136896 | 1200 | 1x36W | 1.147,00 |

| ART. NR. | L mm | LED COLOUR | LIST PRICE |
|-----------|------|------------|------------|
| 24lm/W | | BLUE | |
| 80-112895 | 400 | 1x12W | 659,00 |
| 80-124895 | 800 | 1x24W | 948,00 |
| 80-136895 | 1200 | 1x36W | 1.147,00 |
| 50lm/W | | AMBER | |
| 80-112893 | 400 | 1x12W | 659,00 |
| 80-124893 | 800 | 1x24W | 948,00 |
| 80-136893 | 1200 | 1x36W | 1.147,00 |




BILTON LED LIGHTING

LED LIGHTNING

GLOBE

- Aluminium installation lighting IP 65.
- max. 3x2W using high power LEDs.
- 10mm safety glass cover.
- RGB and single colour available, with various lenses.


SINGLE 240V 3 x 1,2W

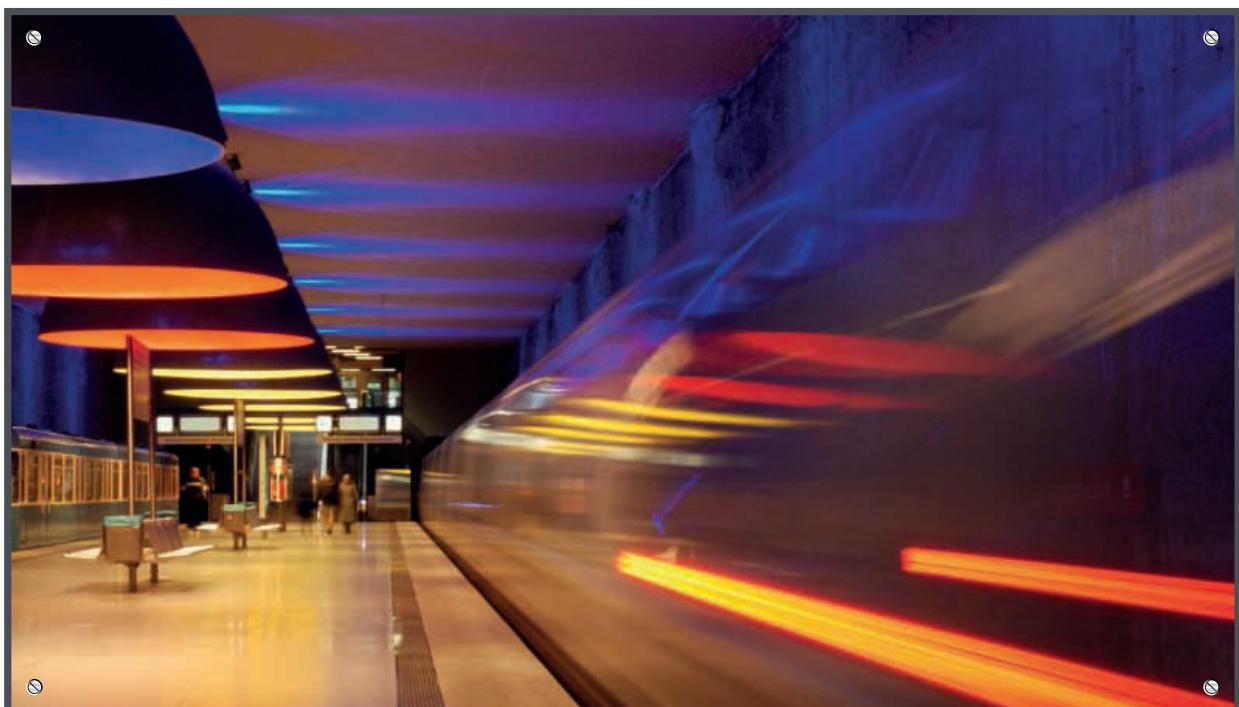
| ART. NR. | LED COLOUR | LIST PRICE |
|-----------|---------------|------------|
| 60-405098 | COLD WHITE | 198,00 |
| 60-405097 | NEUTRAL WHITE | 198,00 |
| 60-405096 | WARM WHITE | 198,00 |
| 60-405095 | RED | 198,00 |
| 60-405094 | GREY | 198,00 |
| 60-405093 | BLUE | 198,00 |
| 60-405092 | AMBER | 195,00 |


WHITE EMOTION 500mA 3 X 2W

| ART. NR. | LED COLOUR | LIST PRICE |
|-----------|------------|------------|
| 60-405091 | 2700-6000K | 195,00 |


RGB 500mA 3 X 2W

| ART. NR. | LED COLOUR | LIST PRICE |
|-----------|------------|------------|
| 60-405099 | RGB | 195,00 |

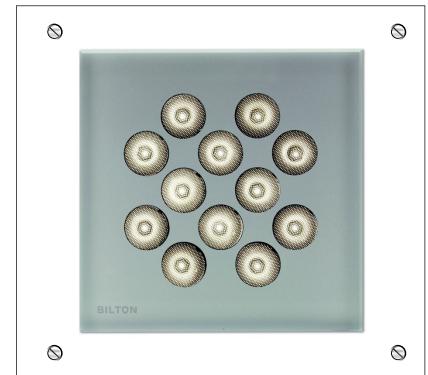



BILTON LED LIGHTING

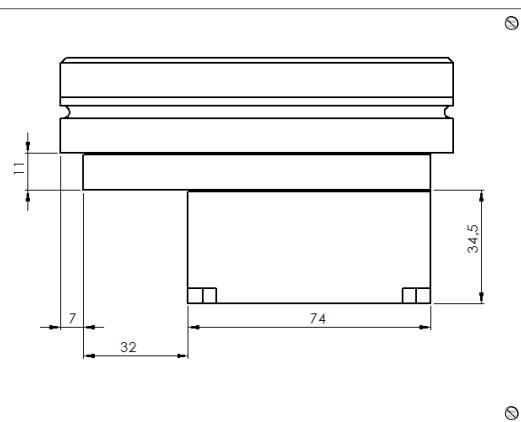
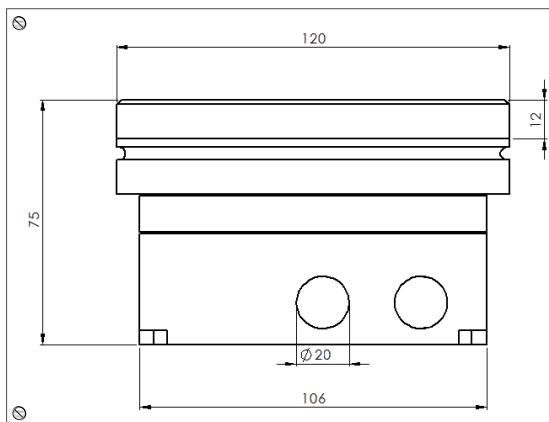

LED LIGHTNING

TRIMLESS 1

- Integrated floor lighting for the highest desing demands.
- Low surface temperature.
- 230V 12x1,2W IP 65.
- Easily operated using the integrated DMX interface.


SINGLE 240V 12 x 1,2W

| ART. NR. | LED COLOUR | LIST PRICE |
|-----------|---------------|------------|
| 90-112098 | COLD WHITE | 589,00 |
| 90-112097 | NEUTRAL WHITE | 589,00 |
| 90-112096 | WARM WHITE | 589,00 |
| 90-112095 | RED | 589,00 |
| 90-112094 | GREEN | 589,00 |
| 90-112093 | BLUE | 589,00 |
| 90-112092 | AMBER | 589,00 |





BILTON LED LIGHTING





OVERVIEW IntesisBox® from INTESIS

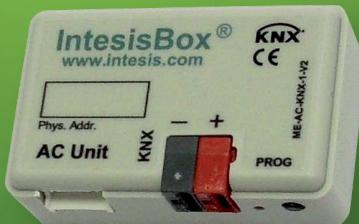


One of the most important and complex aspects of a KNX Building Automation system is the full integration of other existing subsystem with their respective protocols (BACnet, LonWorks, Modbus, Proprietary...).

The IntesisBox® Series from Intesis make this integration possible in most cases in a very easy and reliable way. As you will see in the table below, there are two types of KNX IntesisBox® Gateways:

- ⇒ Those meant to integrate other subsystems into a KNX project (even without deep knowledge of the other protocol).
- ⇒ Those meant to integrate a KNX system into other control systems.

These Gateways are just essential for Building Automation systems and thus worth getting to know. Also highly recommended for Home Automation systems, mainly for HVAC integration.



10001010111010101110 / 10000101*//1011011/1010101
 1000001000 / 10000111**** 1111// 1000010101011100//
 //101011000101 //enter//100000100101101***

INDEX



KNX EIB GATEWAYS AND INTERFACES DESIGNED
FOR INTEGRATION OF THIRD PARTY SYSTEMS
INTO KNX CONTROL SYSTEMS

120

IntesisBox[®]

KNX EIB GATEWAYS DESIGNED FOR INTEGRATION
OF KNX INSTALLATIONS INTO OTHER CONTROL
SYSTEMS (BMS, SCADA, HMI, TOUCH PANELS....)

121



| WEB CODE | | MANUF. REFERENCE | DESCRIPTION | LOGO OTHER SYSTEMS | DES. RANGE | LIST PRICE | IMAGE |
|--|--------------------|--|---------------|--------------------|-----------------------|------------|-------|
| KNX EIB GATEWAYS AND INTERFACES DESIGNED FOR INTEGRATION OF THIRD PARTY SYSTEMS INTO KNX CONTROL SYSTEMS | | | | | | | |
| 8214 | ME-AC-KNX-1-V2 | GATEWAY KNX - MITSUBISHI ELECTRIC (DOMESTIC/MR.SLIM) | | | IntesisBox® KNX - XXX | 193,00 € | |
| 9114 | ME-AC-KNX-15 | GATEWAY KNX - MITSUBISHI ELECTRIC (CITY MULTI) | 15 groups | | IntesisBox® KNX - XXX | 1.580,00 € | |
| 9115 | ME-AC-KNX-100 | GATEWAY KNX - MITSUBISHI ELECTRIC (CITY MULTI) | 100 groups | | IntesisBox® KNX - XXX | 2.108,0 € | |
| 9111 | IBOX-KNX-BAC-A | GATEWAY KNX - BACNET/IP CLIENT | 500 points | | IntesisBox® KNX - XXX | 1.580,00 € | |
| 9107 | IBOX-KNX-BAC-B | GATEWAY KNX - BACNET/IP CLIENT | 4000 points | | IntesisBox® KNX - XXX | 2.400,00 € | |
| 10035 | IBOX-KNX-LON-100 | GATEWAY KNX - LON | 100 points | | IntesisBox® KNX - XXX | 770,00 € | |
| 8389 | IBOX-KNX-LON-A | GATEWAY KNX - LON | 500 points | | IntesisBox® KNX - XXX | 1.580,00 € | |
| 7840 | IBOX-KNX-LON-B | GATEWAY KNX - LON | 4000 points | | IntesisBox® KNX - XXX | 2.400,00 € | |
| 9575 | DK-AC-KNX-1 | GATEWAY KNX - DAIKIN | domestic line | | IntesisBox® KNX - XXX | 155,00 € | |
| 9539 | DK-RC-KNX-1 | GATEWAY KNX - DAIKIN | SKY Y VRV | | IntesisBox® KNX - XXX | 193,00 € | |
| 9117 | IBOX-KNX-AIRZONE | GATEWAY KNX - AIRZONE INNOBUS | | | IntesisBox® KNX - XXX | 380,00 € | |
| 8999 | IBOX-KNX-MBRTU-100 | GATEWAY KNX - MODBUS RTU MASTER | 100 points | | IntesisBox® KNX - XXX | 500,00 € | |
| 9112 | IBOX-KNX-MBRTU-A | GATEWAY KNX - MODBUS RTU MASTER | 500 points | | IntesisBox® KNX - XXX | 1.200,00 € | |
| 9113 | IBOX-KNX-MBRTU-B | GATEWAY KNX - MODBUS RTU MASTER | 3000 points | | IntesisBox® KNX - XXX | 2.200,00 € | |
| 9108 | IBOX-KNX-MBTCP-100 | GATEWAY KNX - MODBUS TCP MASTER | 100 points | | IntesisBox® KNX - XXX | 550,00 € | |
| 9109 | IBOX-KNX-MBTCP-A | GATEWAY KNX - MODBUS TCP MASTER | 500 points | | IntesisBox® KNX - XXX | 1.200,00 € | |

| | | OVERVIEW IntesisBox® from INTESIS | | | | |
|----------|------------------|-----------------------------------|--------------------|------------|------------|-------|
| WEB CODE | MANUF. REFERENCE | DESCRIPTION | LOGO OTHER SYSTEMS | DES. RANGE | LIST PRICE | IMAGE |

KNX EIB GATEWAYS AND INTERFACES DESIGNED FOR INTEGRATION OF THIRD PARTY SYSTEMS INTO KNX CONTROL SYSTEMS

| | | | | | | | |
|-------|------------------|--|----------------------|--|-----------------------|------------|--|
| 9110 | IBOX-KNX-MBTCP-B | PASARELA KNX - MODBUS TCP MASTE | 3000 points | | IntesisBox® KNX - XXX | 2.200,00 € | |
| 10483 | LG-AC-KNX-4 | GATEWAY KNX - LG AIR CONDITIONING | 4 Int. Units | | IntesisBox® KNX - XXX | 525,00 € | |
| 10484 | LG-AC-KNX-8 | GATEWAY KNX - LG AIR CONDITIONING | 8 Int. Units | | IntesisBox® KNX - XXX | 890,00 € | |
| 9919 | LG-AC-KNX-16 | GATEWAY KNX - LG AIR CONDITIONING | 16 Int. Units | | IntesisBox® KNX - XXX | 1.300,00 € | |
| 9920 | LG-AC-KNX-64 | GATEWAY KNX - LG AIR CONDITIONING | 64 Int. Units | | IntesisBox® KNX - XXX | 2.500,00 € | |
| 10485 | SM-AC-KNX-4 | GATEWAY KNX - SAMSUNG AIR CONDITIONING | 4 Int. Units | | IntesisBox® KNX - XXX | 525,00 € | |
| 10486 | SM-AC-KNX-8 | GATEWAY KNX - SAMSUNG AIR CONDITIONING | 8 Int. Units | | IntesisBox® KNX - XXX | 890,00 € | |
| 9921 | SM-AC-KNX-16 | GATEWAY KNX - SAMSUNG AIR CONDITIONING | 16 Int. Units | | IntesisBox® KNX - XXX | 1.300,00 € | |
| 9922 | SM-AC-KNX-64 | GATEWAY KNX - SAMSUNG AIR CONDITIONING | 64 Int. Units | | IntesisBox® KNX - XXX | 2.500,00 € | |
| 9923 | SM-AC-KNX-128 | GATEWAY KNX - SAMSUNG AIR CONDITIONING | 128 Int. Units | | IntesisBox® KNX - XXX | 3.500,00 € | |
| 10482 | PA-AC-KNX-1 | GATEWAY KNX - PANASONIC AIR CONDITIONING | | | IntesisBox® KNX - XXX | 193,00 € | |
| 10489 | IBOX-KNX-ENO-A1 | GATEWAY KNX - ENOCEAN | 868 MHz EUROPE | | IntesisBox® KNX - XXX | CONSULT | |
| 10490 | IBOX-KNX-ENO-A1C | GATEWAY KNX - ENOCEAN | 315 MHz USA and ASIA | | IntesisBox® KNX - XXX | CONSULT | |

KNX EIB GATEWAYS DESIGNED FOR INTEGRATION OF KNX INSTALLATIONS INTO OTHER CONTROL SYSTEMS (BMS, SCADA, HMI, TOUCH PANELS....)

| | | | | | | | |
|------|------------------|-------------------|------------|--|-----------------------|------------|--|
| 9122 | IBOX-LON-KNX-200 | GATEWAY LON - KNX | 200 points | | IntesisBox® KNX - XXX | 650,00 € | |
| 9123 | IBOX-LON-KNX-A | GATEWAY LON - KNX | 500 points | | IntesisBox® KNX - XXX | 1.400,00 € | |

| | | OVERVIEW IntesisBox® from INTESIS | | | | |
|----------|------------------|-----------------------------------|--------------------|------------|------------|-------|
| WEB CODE | MANUF. REFERENCE | DESCRIPTION | LOGO OTHER SYSTEMS | DES. RANGE | LIST PRICE | IMAGE |

KNX EIB GATEWAYS DESIGNED FOR INTEGRATION OF KNX INSTALLATIONS INTO OTHER CONTROL SYSTEMS (BMS, SCADA, HMI, TOUCH PANELS....)

| | | | | | | | |
|-------|------------------|--------------------------------|-------------|--|-----------------------|------------|---|
| 9124 | IBOX-LON-KNX-B | GATEWAY LON - KNX | 4000 points | | IntesisBox® KNX - XXX | 2.400,00 € |  |
| 10487 | IBOX-KNX-BAC-100 | GATEWAY BACNET/IP SERVER - KNX | 100 points |  | IntesisBox® KNX - XXX | 770,00 € |  |
| 9120 | IBOX-BAC-KNX-A | GATEWAY BACNET/IP SERVER - KNX | 500 points | | IntesisBox® KNX - XXX | 1.400,00 € | |
| 9121 | IBOX-BAC-KNX-B | GATEWAY BACNET/IP SERVER - KNX | 3000 points | | IntesisBox® KNX - XXX | 2.400,00 € | |
| 9116 | IBOX-MBS-KNX-100 | GATEWAY MODBUS SERVER - KNX | 100 points |  | IntesisBox® KNX - XXX | 500,00 € |  |
| 9118 | IBOX-MBS-KNX-A | GATEWAY MODBUS SERVER - KNX | 500 points | | IntesisBox® KNX - XXX | 990,00 € | |
| 9119 | IBOX-MBS-KNX-B | GATEWAY MODBUS SERVER - KNX | 3000 points | | IntesisBox® KNX - XXX | 2.200,00 € | |
| 9125 | IBOX-ASCII-KNX | GATEWAY ASCII SERVER - KNX | |  | IntesisBox® KNX - XXX | 750,00 € |  |

- ❖ IntesisBox® is a small microcontrolled device allowing DIN rail mounting for installation inside industrial cabinet and with RS232, RS485, Ethernet, KNX TP1 (EIB), and LonWorks TP/FT-10 interfaces designed specifically to offer Intesis's range of integrations in a robust and small device with null maintenance. With this autonomous device it is possible to interconnect directly the internal system (building automation, industrial automation, BACnet, ModBus, KNX, LonWorks...) to the external system (fire system, access control system, security system, HVAC, cold/warm generation, energy generation & measurement, lighting, hotel management, home automation...).
- ❖ A console RS232/USB port is also available to connect a laptop PC for programming and monitoring the device. IntesisBox® also offers the possibility to be connected to Ethernet/LAN/WAN networks expanding thus its possibilities with connection to ethernet/IP based protocol systems, such as ModBus IP, BACnet/IP, XML, etc.
- ❖ Inside its internal structure IntesisBox® incorporates a high performance and reliability microcontroller with flash (non volatile) memory where is saved the operating system and the integration code (firmware). This internal structure, along with a watchdog system, ensures a suitable operation of the device in every moment, even in front of power irregularities such as micro-cuts or long power failures.
- ❖ It has no mechanical mobile components (fans, hard discs...) reducing this way potential malfunctions and reducing also the maintenance needed almost to zero, making this device ideal for industrial environments.
- ❖ IntesisBox® allows DIN rail mounting for its easy installation inside industrial cabinet and allows a wide range of input supply voltage, from 9 to 30VDC and also 24VAC, with a low power consumption of 1.4 watts.
- ❖ The operating temperature range is from -40°C to +70°C and the relative humidity from 5% to 95% (non condensing).
- ❖ It is not necessary any external RS232/RS485 converter because IntesisBox® has RS485 port and can be directly connected to a RS485 bus. IntesisBox® also incorporates a KNX TP1 (EIB) optocoupled port to connect to KNX EIB networks, and a LonWorks TP/FT-10 port to connect to LonWorks networks.
- ❖ All available IntesisBox® hardware versions are compliant with RoHS directive (2002/95/CE).
- ❖ Along with the device, it is also supplied (with no additional cost) LinkBox software, a software tool needed for configuring and monitoring the IntesisBox®. LinkBox software runs on MS Windows® operating systems and uses a serial port to communicate to IntesisBox®. It is possible to use LinkBox Software off-line (not connected to IntesisBox®) to configure the IntesisBox® more comfortably in the office and later download the configuration to the device using the serial connection in the field.
- ❖ Along with IntesisBox®, it is also supplied the console cable needed to configure the device, this is a standard DB9 male - DB9 female cable, and can be also supplied (on demand) an external plug-in power supply (european plug) 230VAC/12VDC 300mA to power the IntesisBox®.



JUNG DOOR COMMUNICATION SYSTEM

The new DCM from JUNG follows the well-known design of this manufacturer's pushbutton series and enhances the traditional Door Communication System (Audio and Video) with innovative and even revolutionary features such as: touch display with very user friendly menus, full duplex operation and active noise suppression (for simultaneous conversations and problem-free communication), voice messages, etc.



10001010111010101110 / 10000101*/ / 1011011/1010101
1000001000 / 10000111*** 1111// 1000010101011100/
//101011000101 //enter// 10000100101101***

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VIDEO DOOR ENTRY
SYSTEM / NO KNX

INDOOR STATION

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| | | |
|-------------|--|-----|
| ACCESSORIES | | 135 |
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LEGEND

| | |
|--|-----|
| | 136 |
|--|-----|

| DOOR COMMUNICATION SYSTEM FROM JUNG | | | | | | |
|-------------------------------------|------------------|-------------|------------|--------|------------|-------|
| WEB CODE | MANUF. REFERENCE | DESCRIPTION | DES. RANGE | COLOUR | PRICE LIST | IMAGE |

VIDEO DOOR ENTRY SYSTEM / NO KNX / INDOOR STATION / STANDARD / AUDIO

| | | | | | | |
|------|-------------------|---|-----------|-----------------------------------|---------|---|
| 9560 | TK IS A 514 A W | DCM AUDIO STANDARD INDOOR STATION | TKM / DCM | <input type="checkbox"/> | 62,20 € |  |
| 9561 | TK IS A 514 A WW | DCM AUDIO STANDARD INDOOR STATION | TKM / DCM | <input type="checkbox"/> 4 | 62,20 € | |
| 9563 | TK IS A 514 A AL | DCM AUDIO STANDARD INDOOR STATION | TKM / DCM | <input type="checkbox"/> 1 | 70,30 € | |
| 9562 | TK IS A 514 A SW | DCM AUDIO STANDARD INDOOR STATION | TKM / DCM | <input type="checkbox"/> ■ | 66,00 € | |
| 9565 | TK IS A 514 AD W | DCM AUDIO STANDARD INDOOR STATION DESIGN AS 500, A 500, A PLUS AND A CREATION | TKM / DCM | <input type="checkbox"/> | 62,20 € |  |
| 9566 | TK IS A 514 AD WW | DCM AUDIO STANDARD INDOOR STATION DESIGN AS 500, A 500, A PLUS AND A CREATION | TKM / DCM | <input type="checkbox"/> 4 | 62,20 € | |
| 9568 | TK IS A 514 AD AL | DCM AUDIO STANDARD INDOOR STATION DESIGN AS 500, A 500, A PLUS AND A CREATION | TKM / DCM | <input type="checkbox"/> 1 | 70,30 € | |
| 9567 | TK IS A 514 AD SW | DCM AUDIO STANDARD INDOOR STATION DESIGN AS 500, A 500, A PLUS AND A CREATION | TKM / DCM | <input type="checkbox"/> ■ | 66,00 € | |

VIDEO DOOR ENTRY SYSTEM / NO KNX / INDOOR STATION / UNIVERSAL / AUDIO

| | | | | | | |
|------|-------------------|--|-----------|-----------------------------------|----------|---|
| 9569 | TK IS AS M 514 W | DCM AUDIO COMFORT INDOOR STATION FOR AS 500 | TKM / DCM | <input type="checkbox"/> | 177,57 € |  |
| 9570 | TK IS AS M 514 WW | DCM AUDIO COMFORT INDOOR STATION FOR AS 500 | TKM / DCM | <input type="checkbox"/> 4 | 177,57 € | |
| 9571 | TK IS AC M 514 W | DCM AUDIO COMFORT INDOOR STATION FOR A CREATION | TKM / DCM | <input type="checkbox"/> | 180,42 € |  |
| 9572 | TK IS AC M 514 WW | DCM AUDIO COMFORT INDOOR STATION FOR A CREATION | TKM / DCM | <input type="checkbox"/> 4 | 180,42 € | |
| 9574 | TK IS AC M 514 AL | DCM AUDIO COMFORT INDOOR STATION FOR A CREATION | TKM / DCM | <input type="checkbox"/> 1 | 185,41 € | |
| 9573 | TK IS AC M 514 SW | DCM AUDIO COMFORT INDOOR STATION FOR A CREATION | TKM / DCM | <input type="checkbox"/> ■ | 181,10 € | |
| 9576 | TK IS CD M 514 W | DCM AUDIO COMFORT INDOOR STATION FOR CD 500 | TKM / DCM | <input type="checkbox"/> | 185,20 € |  |

| DOOR COMMUNICATION SYSTEM FROM JUNG | | | | | | |
|-------------------------------------|------------------|-------------|------------|--------|------------|-------|
| WEB CODE | MANUF. REFERENCE | DESCRIPTION | DES. RANGE | COLOUR | PRICE LIST | IMAGE |

VIDEO DOOR ENTRY SYSTEM / NO KNX / INDOOR STATION / UNIVERSAL / AUDIO

| | | | | | | |
|------|-------------------|---|-----------|--|----------|---|
| 9577 | TK IS CD M 514 WW | DCM AUDIO COMFORT INDOOR STATION FOR CD 500 | TKM / DCM |  4 | 186,14 € |  |
| 9578 | TK IS CD M 514 BR | DCM AUDIO COMFORT INDOOR STATION FOR CD 500 | TKM / DCM |  5 | 186,60 € | |
| 9579 | TK IS CD M 514 GR | DCM AUDIO COMFORT INDOOR STATION FOR CD 500 | TKM / DCM |  6 | 186,60 € | |
| 9580 | TK IS CD M 514 LG | DCM AUDIO COMFORT INDOOR STATION FOR CD 500 | TKM / DCM |  7 | 186,60 € | |
| 9622 | TK IS CD M 514 RT | DCM AUDIO COMFORT INDOOR STATION FOR CD 500 | TKM / DCM |  8 | 186,60 € | |
| 9623 | TK IS CD M 514 SW | DCM AUDIO COMFORT INDOOR STATION FOR CD 500 | TKM / DCM |  9 | 186,60 € | |
| 9624 | TK IS CD M 514 GB | DCM AUDIO COMFORT INDOOR STATION FOR CD 500 | TKM / DCM |  10 | 196,22 € | |
| 9625 | TK IS CD M 514 PT | DCM AUDIO COMFORT INDOOR STATION FOR CD 500 | TKM / DCM |  11 | 196,22 € | |
| 9581 | TK IS LS 914 W | DCM AUDIO COMFORT INDOOR STATION FOR LS DESIGN RANGES AND FLAT DESIGN | TKM / DCM |  12 | 178,76 € |  |
| 9582 | TK IS LS 914 WW | DCM AUDIO COMFORT INDOOR STATION FOR LS DESIGN RANGES AND FLAT DESIGN | TKM / DCM |  13 | 179,33 € | |
| 9583 | TK IS LS 914 LG | DCM AUDIO COMFORT INDOOR STATION FOR LS DESIGN RANGES AND FLAT DESIGN | TKM / DCM |  14 | 180,68 € | |
| 9584 | TK IS LS 914 SW | DCM AUDIO COMFORT INDOOR STATION FOR LS DESIGN RANGES AND FLAT DESIGN | TKM / DCM |  15 | 180,68 € | |
| 9585 | TK IS AL 2914 | DCM AUDIO COMFORT INDOOR STATION FOR LS DESIGN RANGES AND FLAT DESIGN | TKM / DCM |  16 | 196,94 € | |
| 9586 | TK IS ES 2914 | DCM AUDIO COMFORT INDOOR STATION FOR LS DESIGN RANGES AND FLAT DESIGN | TKM / DCM |  17 | 196,94 € | |
| 9587 | TK IS AL 2914 AN | DCM AUDIO COMFORT INDOOR STATION FOR LS DESIGN RANGES AND FLAT DESIGN | TKM / DCM |  18 | 196,94 € | |



| WEB CODE | MANUF. REFERENCE | DESCRIPTION | DES. RANGE | COLOUR | PRICE LIST | IMAGE |
|----------|------------------|-------------|------------|--------|------------|-------|
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VIDEO DOOR ENTRY SYSTEM / NO KNX / INDOOR STATION / UNIVERSAL / VIDEO

| | | | | | | |
|------|--------------------|--|-----------|----------------------------|----------|--|
| 9626 | TK ISV AS M 514 W | DCM VIDEO INDOOR STATION FOR AS 500 | TKM / DCM | <input type="checkbox"/> | 801,95 € | |
| 9627 | TK ISV AS M 514 WW | DCM VIDEO INDOOR STATION FOR AS 500 | TKM / DCM | <input type="checkbox"/> 4 | 801,95 € | |
| 9628 | TK ISV AC M 514 W | DCM VIDEO INDOOR STATION FOR A CREATION | TKM / DCM | <input type="checkbox"/> | 808,34 € | |
| 9629 | TK ISV AC M 514 WW | DCM VIDEO INDOOR STATION FOR A CREATION | TKM / DCM | <input type="checkbox"/> 4 | 808,34 € | |
| 9631 | TK ISV AC M 514 AL | DCM VIDEO INDOOR STATION FOR A CREATION | TKM / DCM | <input type="checkbox"/> 1 | 818,99 € | |
| 9630 | TK ISV AC M 514 SW | DCM VIDEO INDOOR STATION FOR A CREATION | TKM / DCM | <input type="checkbox"/> | 809,38 € | |
| 9632 | TK ISV CD M 514 W | DCM VIDEO INDOOR STATION FOR CD 500 | TKM / DCM | <input type="checkbox"/> | 837,07 € | |
| 9633 | TK ISV CD M 514 WW | DCM VIDEO INDOOR STATION FOR CD 500 | TKM / DCM | <input type="checkbox"/> 4 | 838,16 € | |
| 9634 | TK ISV CD M 514 BR | DCM VIDEO INDOOR STATION FOR CD 500 | TKM / DCM | <input type="checkbox"/> | 839,20 € | |
| 9635 | TK ISV CD M 514 GR | DCM VIDEO INDOOR STATION FOR CD 500 | TKM / DCM | <input type="checkbox"/> | 839,20 € | |
| 9636 | TK ISV CD M 514 LG | DCM VIDEO INDOOR STATION FOR CD 500 | TKM / DCM | <input type="checkbox"/> | 839,20 € | |
| 9637 | TK ISV CD M 514 RT | DCM VIDEO INDOOR STATION FOR CD 500 | TKM / DCM | <input type="checkbox"/> 2 | 839,20 € | |
| 9638 | TK ISV CD M 514 SW | DCM VIDEO INDOOR STATION FOR CD 500 | TKM / DCM | <input type="checkbox"/> | 839,20 € | |
| 9639 | TK ISV CD M 514 GB | DCM VIDEO INDOOR STATION FOR CD 500 | TKM / DCM | <input type="checkbox"/> 6 | 849,85 € | |
| 9640 | TK ISV CD M 514 PT | DCM VIDEO INDOOR STATION FOR CD 500 | TKM / DCM | <input type="checkbox"/> 5 | 849,85 € | |
| 9641 | TK ISV LS 914 W | DCM VIDEO INDOOR STATIONFOR THE LS DESIGN RANGES AND FLAT DESIGN | TKM / DCM | <input type="checkbox"/> | 838,16 € | |

| | | DOOR COMMUNICATION SYSTEM FROM JUNG | | | | |
|----------|------------------|-------------------------------------|------------|--------|------------|-------|
| WEB CODE | MANUF. REFERENCE | DESCRIPTION | DES. RANGE | COLOUR | PRICE LIST | IMAGE |

VIDEO DOOR ENTRY SYSTEM / NO KNX / INDOOR STATION / UNIVERSAL / VIDEO

| | | | | | | |
|------|------------------|--|-----------|---|----------|--|
| 9642 | TK ISV LS 914 WW | DCM VIDEO INDOOR STATIONFOR THE LS DESIGN RANGES AND FLAT DESIGN | TKM / DCM |  | 839,20 € | |
| 9643 | TK ISV LS 914 LG | DCM VIDEO INDOOR STATIONFOR THE LS DESIGN RANGES AND FLAT DESIGN | TKM / DCM |  | 840,29 € | |
| 9644 | TK ISV LS 914 SW | DCM VIDEO INDOOR STATIONFOR THE LS DESIGN RANGES AND FLAT DESIGN | TKM / DCM |  | 840,29 € | |
| 9645 | TK ISV AL 914 | DCM VIDEO INDOOR STATIONFOR THE LS DESIGN RANGES AND FLAT DESIGN | TKM / DCM |  | 850,94 € | |
| 9647 | TK ISV ES 914 | DCM VIDEO INDOOR STATIONFOR THE LS DESIGN RANGES AND FLAT DESIGN | TKM / DCM |  | 850,94 € | |
| 9646 | TK ISV AL 914 AN | DCM VIDEO INDOOR STATIONFOR THE LS DESIGN RANGES AND FLAT DESIGN | TKM / DCM |  | 850,94 € | |

VIDEO DOOR ENTRY SYSTEM / NO KNX / INDOOR STATION / ACCESSORIES

| | | | | | | |
|------|--------------------|---|-----------|---|---------|---|
| 9588 | TK IS A 514 TS W | DCM COVER KIT AUDIO COMFORT FOR AS 500 AND A CREATION | TKM / DCM |  | 17,49 € |  |
| 9589 | TK IS A 514 TS WW | DCM COVER KIT AUDIO COMFORT FOR AS 500 AND A CREATION | TKM / DCM |  | 17,49 € | |
| 9590 | TK IS A 514 TS AL | DCM COVER KIT AUDIO COMFORT FOR AS 500 AND A CREATION | TKM / DCM |  | 22,96 € | |
| 9591 | TK IS A 514 TS SW | DCM COVER KIT AUDIO COMFORT FOR AS 500 AND A CREATION | TKM / DCM |  | 20,05 € | |
| 9603 | TK IS CD 514 TS W | DCM COVER KIT AUDIO COMFORT FOR CD 500 | TKM / DCM |  | 17,49 € |  |
| 9604 | TK IS CD 514 TS WW | DCM COVER KIT AUDIO COMFORT FOR CD 500 | TKM / DCM |  | 19,01 € | |
| 9605 | TK IS CD 514 TS BR | DCM COVER KIT AUDIO COMFORT FOR CD 500 | TKM / DCM |  | 20,05 € | |
| 9606 | TK IS CD 514 TS GR | DCM COVER KIT AUDIO COMFORT FOR CD 500 | TKM / DCM |  | 20,05 € | |
| 9607 | TK IS CD 514 TS LG | DCM COVER KIT AUDIO COMFORT FOR CD 500 | TKM / DCM |  | 20,05 € | |



| WEB CODE | MANUF. REFERENCE | DESCRIPTION | DES. RANGE | COLOUR | PRICE LIST | IMAGE |
|----------|------------------|-------------|------------|--------|------------|-------|
|----------|------------------|-------------|------------|--------|------------|-------|

VIDEO DOOR ENTRY SYSTEM / NO KNX / INDOOR STATION / ACCESSORIES

| | | | | | | |
|------|---------------------|--|-----------|---|---------|--|
| 9608 | TK IS CD 514 TS RT | DCM COVER KIT AUDIO COMFORT FOR CD 500 | TKM / DCM | | 20,05 € | |
| 9609 | TK IS CD 514 TS SW | DCM COVER KIT AUDIO COMFORT FOR CD 500 | TKM / DCM | | 20,05 € | |
| 9610 | TK IS CD 514 TS GB | DCM COVER KIT AUDIO COMFORT FOR CD 500 | TKM / DCM | 6 | 22,96 € | |
| 9611 | TK IS CD 514 TS PT | DCM COVER KIT AUDIO COMFORT FOR CD 500 | TKM / DCM | 5 | 22,96 € | |
| 9613 | TK IS LS 914 TS W | DCM COVER KIT AUDIO COMFORT FOR LS AND FD DESIGN | TKM / DCM | | 19,01 € | |
| 9612 | TK IS LS 914 TS WW | DCM COVER KIT AUDIO COMFORT FOR LS AND FD DESIGN | TKM / DCM | 4 | 19,01 € | |
| 9614 | TK IS LS 914 TS LG | DCM COVER KIT AUDIO COMFORT FOR LS AND FD DESIGN | TKM / DCM | | 20,05 € | |
| 9615 | TK IS LS 914 TS SW | DCM COVER KIT AUDIO COMFORT FOR LS AND FD DESIGN | TKM / DCM | | 20,05 € | |
| 9616 | TK IS AL 2914 TS | DCM COVER KIT AUDIO COMFORT FOR LS AND FD DESIGN | TKM / DCM | 1 | 28,90 € | |
| 9617 | TK IS ES 2914 TS | DCM COVER KIT AUDIO COMFORT FOR LS AND FD DESIGN | TKM / DCM | 9 | 28,90 € | |
| 9618 | TK IS AL 2914 TS AN | DCM COVER KIT AUDIO COMFORT FOR LS AND FD DESIGN | TKM / DCM | 7 | 28,90 € | |
| 9648 | TK ISV A 514 TS W | DCM COVER KIT VIDEO FOR AS 500 AND A CREATION | TKM / DCM | | 17,49 € | |
| 9649 | TK ISV A 514 TS WW | DCM COVER KIT VIDEO FOR AS 500 AND A CREATION | TKM / DCM | 4 | 17,49 € | |
| 9651 | TK ISV A 514 TS AL | DCM COVER KIT VIDEO FOR AS 500 AND A CREATION | TKM / DCM | 1 | 22,37 € | |
| 9650 | TK ISV A 514 TS SW | DCM COVER KIT VIDEO FOR AS 500 AND A CREATION | TKM / DCM | | 20,05 € | |
| 9652 | TK ISV CD 514 TS W | DCM COVER KIT VIDEO FOR CD 500 | TKM / DCM | | 17,49 € | |

| WEB CODE | MANUF. REFERENCE | DESCRIPTION | DES. RANGE | COLOUR | PRICE LIST | IMAGE |
|--|---------------------|--|------------|--|------------|---|
| VIDEO DOOR ENTRY SYSTEM / NO KNX / INDOOR STATION / ACCESSORIES | | | | | | |
| 9654 | TK ISV CD 514 TS WW | DCM COVER KIT VIDEO FOR CD 500 | TKM / DCM |  4 | 19,01 € | |
| 9655 | TK ISV CD 514 TS BR | DCM COVER KIT VIDEO FOR CD 500 | TKM / DCM |  5 | 20,05 € | |
| 9656 | TK ISV CD 514 TS GR | DCM COVER KIT VIDEO FOR CD 500 | TKM / DCM |  6 | 20,05 € | |
| 9657 | TK ISV CD 514 TS LG | DCM COVER KIT VIDEO FOR CD 500 | TKM / DCM |  7 | 20,05 € | |
| 9658 | TK ISV CD 514 TS RT | DCM COVER KIT VIDEO FOR CD 500 | TKM / DCM |  8 | 20,05 € | |
| 9659 | TK ISV CD 514 TS SW | DCM COVER KIT VIDEO FOR CD 500 | TKM / DCM |  9 | 20,05 € | |
| 9660 | TK ISV CD 514 TS GB | DCM COVER KIT VIDEO FOR CD 500 | TKM / DCM |  10 | 22,96 € | |
| 9661 | TK ISV CD 514 TS PT | DCM COVER KIT VIDEO FOR CD 500 | TKM / DCM |  11 | 22,96 € | |
| 9662 | TK ISV LS 914 TS W | DCM COVER KIT VIDEO FOR LS AND FD DESIGN | TKM / DCM |  12 | 17,49 € |  |
| 9663 | TK ISV LS 914 TS WW | DCM COVER KIT VIDEO FOR LS AND FD DESIGN | TKM / DCM |  13 | 19,01 € | |
| 9664 | TK ISV LS 914 TS LG | DCM COVER KIT VIDEO FOR LS AND FD DESIGN | TKM / DCM |  14 | 20,05 € | |
| 9665 | TK ISV LS 914 TS SW | DCM COVER KIT VIDEO FOR LS AND FD DESIGN | TKM / DCM |  15 | 20,05 € | |
| 9666 | TK ISV AL 914 TS | DCM COVER KIT VIDEO FOR LS AND FD DESIGN | TKM / DCM |  16 | 28,90 € | |
| 9668 | TK ISV ES 914 TS | DCM COVER KIT VIDEO FOR LS AND FD DESIGN | TKM / DCM |  17 | 28,90 € | |
| 9667 | TK ISV AL 914 TS AN | DCM COVER KIT VIDEO FOR LS AND FD DESIGN | TKM / DCM |  18 | 28,90 € | |
| 9564 | TK IS 46074 AD KIT | DCM CONVERSION KIT | TKM / DCM |  19 | 10,82 € |  |



| WEB CODE | MANUF. REFERENCE | DESCRIPTION | DES. RANGE | COLOUR | PRICE LIST | IMAGE |
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VIDEO DOOR ENTRY SYSTEM / NO KNX / INDOOR STATION / ACCESSORIES

| | | | | | | |
|------|---------|------------------------------|------------|-------------------------------------|--------|---|
| 9621 | TK 3 KB | DCM CONNECTION BLOCK - 3GANG | AS 500 / A | <input checked="" type="checkbox"/> | 3,44 € |  |
| 9619 | TK 4 KB | DCM CONNECTION BLOCK - 4GANG | AS 500 / A | <input checked="" type="checkbox"/> | 4,54 € |  |

VIDEO DOOR ENTRY SYSTEM / NO KNX / OUTDOOR UNITS / SURFACE-MOUNTED / AUDIO

| | | | | | | |
|------|-------------------|---|-----------|----------------------------|----------|---|
| 9669 | TK AS AL 114 A WW | DCM OUTDOOR STATION - 1- TO 4-GANG, SURFACE-MOUNTED | TKM / DCM | <input type="checkbox"/> 2 | 337,68 € |  |
| 9670 | TK AS AL 114 A | DCM OUTDOOR STATION - 1- TO 4-GANG, SURFACE-MOUNTED | TKM / DCM | <input type="checkbox"/> 1 | 337,68 € | |
| 9671 | TK AS ES 114 A-L | DCM OUTDOOR STATION - 1- TO 4-GANG, SURFACE-MOUNTED | TKM / DCM | <input type="checkbox"/> 3 | 337,68 € | |
| 9672 | TK AS AL 128 A WW | DCM OUTDOOR STATION - 2- TO 8-GANG, SURFACE-MOUNTED | TKM / DCM | <input type="checkbox"/> 2 | 468,23 € |  |
| 9673 | TK AS AL 128 A | DCM OUTDOOR STATION - 2- TO 8-GANG, SURFACE-MOUNTED | TKM / DCM | <input type="checkbox"/> 1 | 468,23 € | |
| 9674 | TK AS ES 128 A-L | DCM OUTDOOR STATION - 2- TO 8-GANG, SURFACE-MOUNTED | TKM / DCM | <input type="checkbox"/> 3 | 468,23 € | |

VIDEO DOOR ENTRY SYSTEM / NO KNX / OUTDOOR UNITS / SURFACE-MOUNTED / VIDEO

| | | | | | | |
|------|--------------------|---|-----------|----------------------------|------------|---|
| 9681 | TK ASV AL 114 A WW | DCM VIDEO OUTDOOR STATION 1- TO 4-GANG, SURFACE-MOUNTED | TKM / DCM | <input type="checkbox"/> 2 | 1.112,00 € |  |
| 9682 | TK ASV AL 114 A | DCM VIDEO OUTDOOR STATION 1- TO 4-GANG, SURFACE-MOUNTED | TKM / DCM | <input type="checkbox"/> 1 | 1.112,00 € | |
| 9683 | TK ASV ES 114 A-L | DCM VIDEO OUTDOOR STATION 1- TO 4-GANG, SURFACE-MOUNTED | TKM / DCM | <input type="checkbox"/> 3 | 1.112,00 € | |
| 9684 | TK ASV AL 128 A WW | DCM VIDEO OUTDOOR STATION 2- TO 8-GANG, SURFACE-MOUNTED | TKM / DCM | <input type="checkbox"/> 2 | 1.234,00 € |  |
| 9685 | TK ASV AL 128 A | DCM VIDEO OUTDOOR STATION 2- TO 8-GANG, SURFACE-MOUNTED | TKM / DCM | <input type="checkbox"/> 1 | 1.234,00 € | |
| 9686 | TK ASV ES 128 A-L | DCM VIDEO OUTDOOR STATION 2- TO 8-GANG, SURFACE-MOUNTED | TKM / DCM | <input type="checkbox"/> 3 | 1.234,00 € | |



DOOR COMMUNICATION SYSTEM FROM JUNG



| WEB CODE | MANUF. REFERENCE | DESCRIPTION | DES. RANGE | COLOUR | PRICE LIST | IMAGE |
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VIDEO DOOR ENTRY SYSTEM / NO KNX / OUTDOOR UNITS / FLUSH-MOUNTED / AUDIO

| | | | | | | |
|------|-----------------|--|-----------|---|----------|---|
| 9675 | TK AS AL 114 WW | DCM OUTDOOR STATION - 1- TO 4-GANG, FLUSH-MOUNTED | TKM / DCM | 2 | 394,46 € |  |
| 9676 | TK AS AL 114 | DCM OUTDOOR STATION - 1- TO 4-GANG, FLUSH-MOUNTED | TKM / DCM | 1 | 394,46 € | |
| 9677 | TK AS ES 114 | DCM OUTDOOR STATION - 1- TO 4-GANG, FLUSH-MOUNTED | TKM / DCM | 9 | 394,46 € | |
| 9678 | TK AS AL 128 WW | DCM OUTDOOR STATION - 2 - TO 8-GANG, FLUSH-MOUNTED | TKM / DCM | 2 | 547,71 € |  |
| 9679 | TK AS AL 128 | DCM OUTDOOR STATION - 2 - TO 8-GANG, FLUSH-MOUNTED | TKM / DCM | 1 | 547,71 € | |
| 9680 | TK AS ES 128 | DCM OUTDOOR STATION - 2 - TO 8-GANG, FLUSH-MOUNTED | TKM / DCM | 9 | 547,71 € | |

VIDEO DOOR ENTRY SYSTEM / NO KNX / OUTDOOR UNITS / FLUSH-MOUNTED / VIDEO

| | | | | | | |
|------|------------------|--|-----------|---|------------|---|
| 9687 | TK ASV AL 114 WW | DCM VIDEO OUTDOOR STATION 1- TO 4-GANG, FLUSH-MOUNTED | TKM / DCM | 2 | 1.265,00 € |  |
| 9688 | TK ASV AL 114 | DCM VIDEO OUTDOOR STATION 1- TO 4-GANG, FLUSH-MOUNTED | TKM / DCM | 1 | 1.265,00 € | |
| 9689 | TK ASV ES 114 | DCM VIDEO OUTDOOR STATION 1- TO 4-GANG, FLUSH-MOUNTED | TKM / DCM | 9 | 1.265,00 € | |
| 9690 | TK ASV AL 128 WW | DCM VIDEO OUTDOOR STATION 2 - TO 8-GANG, FLUSH-MOUNTED | TKM / DCM | 2 | 1.409,00 € |  |
| 9691 | TK ASV AL 128 | DCM VIDEO OUTDOOR STATION 2 - TO 8-GANG, FLUSH-MOUNTED | TKM / DCM | 1 | 1.409,00 € | |
| 9692 | TK ASV ES 128 | DCM VIDEO OUTDOOR STATION 2 - TO 8-GANG, FLUSH-MOUNTED | TKM / DCM | 9 | 1.409,00 € | |

VIDEO DOOR ENTRY SYSTEM / NO KNX / OUTDOOR UNITS / ACCESORIES

| | | | | | | |
|------|------------------|------------------|-----------|---|---------|---|
| 9704 | TK AS AL 01 T WW | DCM COVER 1-GANG | TKM / DCM | 2 | 30,65 € |  |
| 9705 | TK AS AL 01 T | DCM COVER 1-GANG | TKM / DCM | 1 | 30,65 € | |

| | | DOOR COMMUNICATION SYSTEM FROM JUNG | | | | |
|--|------------------|---|------------|---|------------|---|
| WEB CODE | MANUF. REFERENCE | DESCRIPTION | DES. RANGE | COLOUR | PRICE LIST | IMAGE |
| VIDEO DOOR ENTRY SYSTEM / NO KNX / OUTDOOR UNITS / ACCESORIES | | | | | | |
| 9707 | TK AS ES 01 T-L | DCM COVER 1-GANG (FOR SURFACE-MOUNTED OUTDOOR STATION) | TKM / DCM |  3 | 30,65 € | |
| 9706 | TK AS ES 01 T | DCM COVER 1-GANG (FOR FLUSH-MOUNTED OUTDOOR STATION) | TKM / DCM |  9 | 30,65 € | |
| 9708 | TK AS AL 02 T WW | DCM COVER 2-GANG | TKM / DCM |  2 | 15,36 € |  |
| 9709 | TK AS AL 02 T | DCM COVER 2-GANG | TKM / DCM |  1 | 15,36 € | |
| 9711 | TK AS ES 02 T-L | DCM COVER 2-GANG (FOR SURFACE-MOUNTED OUTDOOR STATION) | TKM / DCM |  3 | 15,36 € | |
| 9710 | TK AS ES 02 T | DCM COVER 2-GANG (FOR FLUSH-MOUNTED OUTDOOR STATION) | TKM / DCM |  9 | 15,36 € | |
| 9712 | TK AS AL 04 T WW | DCM COVER 4-GANG | TKM / DCM |  2 | 7,70 € |  |
| 9713 | TK AS AL 04 T | DCM COVER 4-GANG | TKM / DCM |  1 | 7,70 € | |
| 9715 | TK AS ES 04 T-L | DCM COVER 4-GANG (FOR SURFACE-MOUNTED OUTDOOR STATION) | TKM / DCM |  3 | 7,70 € | |
| 9714 | TK AS ES 04 T | DCM COVER 4-GANG (FOR FLUSH-MOUNTED OUTDOOR STATION) | TKM / DCM |  9 | 7,70 € | |
| 9693 | TK AS 114 EBG | DCM FLUSH-MOUNTED RECESSED BOX FOR FLUSH-MOUNTED OUTDOOR STATION 1- TO 4-GANG | TKM / DCM |  9 | 56,78 € |  |
| 9694 | TK AS 128 EBG | DCM FLUSH-MOUNTED RECESSED BOX FOR FLUSH-MOUNTED OUTDOOR STATION 2- TO 8-GANG | TKM / DCM |  9 | 79,43 € |  |
| 9695 | TK AS 4 NA | DCM GLASS COVER FOR INSCRIPTION FIELD (1 - 4-GANG) | TKM / DCM |   | 34,09 € |  |
| 9696 | TK AS 8 NA | DCM GLASS COVER FOR INSCRIPTION FIELD (1 - 4-GANG) | TKM / DCM |   | 68,11 € |  |
| 9620 | TK 8 KB | DCM CONNECTION BLOCK - 8GANG | TKM / DCM |   | 9,07 € |  |
| 9697 | TK 60 FO | DCM FOIL FOR NAME-PLATE | TKM / DCM |   | 7,60 € |  |

| DOOR COMMUNICATION SYSTEM FROM JUNG | | | | | | |
|---|-------------------|---|------------|-------------------------------------|------------|---|
| WEB CODE | MANUF. REFERENCE | DESCRIPTION | DES. RANGE | COLOUR | PRICE LIST | IMAGE |
| VIDEO DOOR ENTRY SYSTEM / NO KNX / OUTDOOR UNITS / ACCESORIES | | | | | | |
| 9698 | TK EBM A 216 | DCM OUTDOOR STATION INTERFACE | TKM / DCM | <input checked="" type="checkbox"/> | 158,71 € |  |
| 9699 | TK EBM TE 32 | DCM OUTDOOR STATION INTERFACE EXTENSION | TKM / DCM | <input checked="" type="checkbox"/> | 104,37 € |  |
| VIDEO DOOR ENTRY SYSTEM / NO KNX / ACCESSORIES | | | | | | |
| 9718 | TK SV 2500 REG | DCM POWER SUPPLY EXTENSION FOR THE EXTENSION OF POWER SUPPLY AND CONTROL UNIT | TKM / DCM | <input checked="" type="checkbox"/> | 213,98 € |  |
| 9717 | TK SV STG 60 REG | DCM POWER SUPPLY AND CONTROL UNIT FOR VIDEO INSTALLATIONS WITH ONE LINE | TKM / DCM | <input checked="" type="checkbox"/> | 160,11 € |  |
| 9716 | TK SV STG 600 REG | DCM POWER SUPPLY AND CONTROL UNIT FOR AUDIO INSTALLATIONS WITH ONE LINE | TKM / DCM | <input checked="" type="checkbox"/> | 191,64 € |  |
| 9719 | TK VU 4 REG | DCM VIDEO SWITCH 4-GANG | TKM / DCM | <input checked="" type="checkbox"/> | 391,70 € |  |
| 9720 | TK VV 2 REG | DCM VIDEO DISTRIBUTOR 2-GANG | TKM / DCM | <input checked="" type="checkbox"/> | 74,86 € |  |
| 9721 | TK VV 4 REG | DCM VIDEO DISTRIBUTOR 4-GANG | TKM / DCM | <input checked="" type="checkbox"/> | 154,45 € |  |
| 9722 | TK VV 2 U | DCM VIDEO DISTRIBUTOR 2-GANG (FLUSH-MOUNTED) | TKM / DCM | <input checked="" type="checkbox"/> | 63,64 € |  |
| 9723 | TK VS 21 U | DCM VIDEO INTERFACE 1-GANG (FLUSH-MOUNTED) | TKM / DCM | <input checked="" type="checkbox"/> | 95,33 € |  |
| 9726 | TK TR 24 EB | DCM DOOR RELEASE RELAY (BUILT-IN) | TKM / DCM | <input checked="" type="checkbox"/> | 27,55 € |  |
| 9727 | TK TR 24 U | DCM DOOR RELEASE RELAY (FLUSH-MOUNTED) | TKM / DCM | <input checked="" type="checkbox"/> | 38,45 € |  |
| 9728 | TK BRE 1 U | DCM BINARY INPUT / OUTPUT 1-GANG (FLUSH-MOUNTED) | TKM / DCM | <input checked="" type="checkbox"/> | 73,77 € |  |
| 9729 | TK-SERVICE | DCM SERVICE DEVICE FOR THE PROGRAMMING AND ANALYSIS OF DCM SYSTEMS | TKM / DCM | <input checked="" type="checkbox"/> | 113,80 € |  |
| 9730 | TK-IBS-TOOL | DCM COMMISSIONING TOOL | TKM / DCM | <input checked="" type="checkbox"/> | 161,82 € |  |

| WEB CODE | MANUF. REFERENCE | DESCRIPTION | DES. RANGE | COLOUR | PRICE LIST | IMAGE |
|----------|------------------|-------------|------------|--------|------------|-------|
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VIDEO DOOR ENTRY SYSTEM / NO KNX / ACCESSORIES

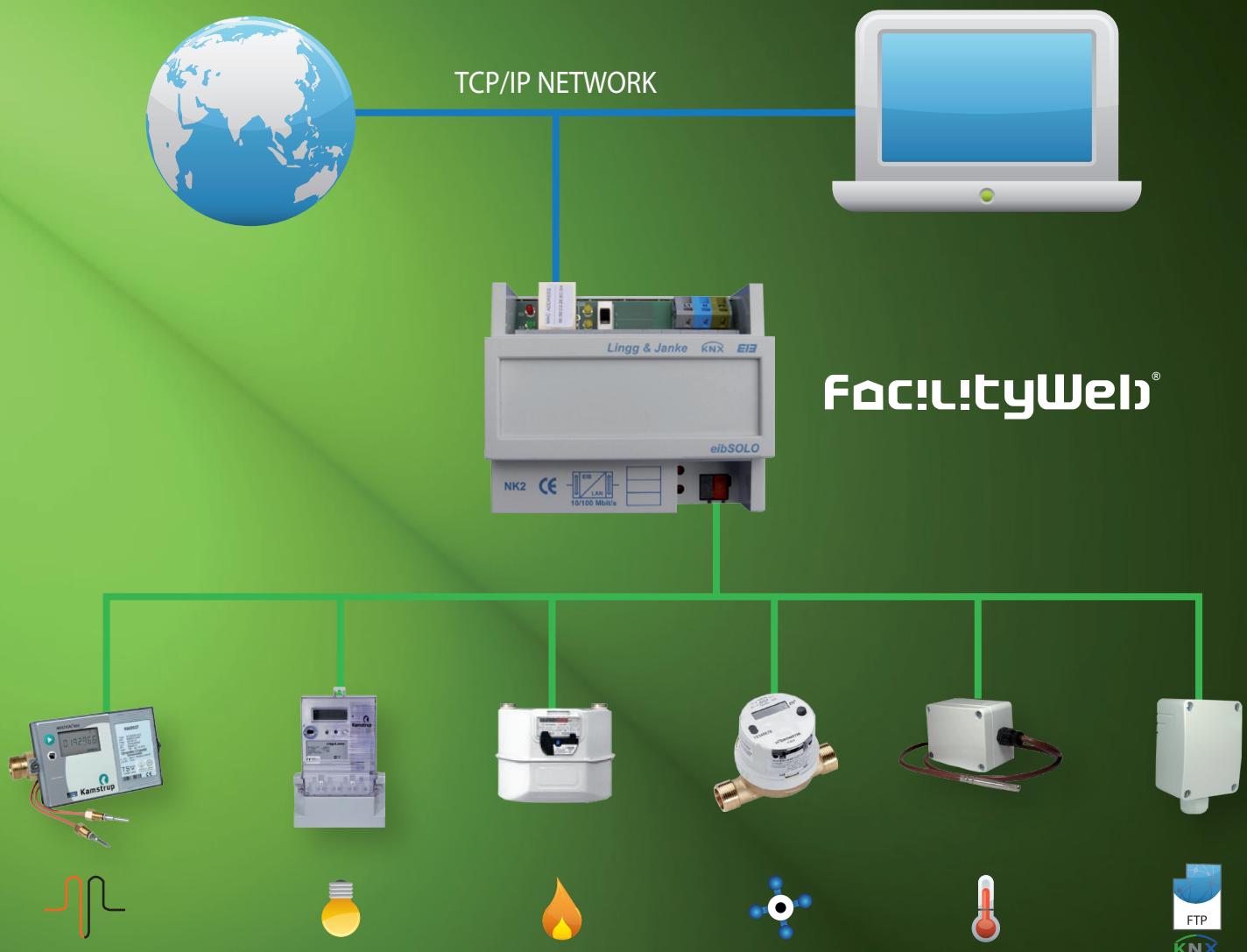
| | | | | | | |
|------|---------------|----------------------------|-----------|-------------------------------------|----------|---|
| 9724 | TK 420 FZK 58 | DCM COLOUR CYLINDER CAMERA | TKM / DCM | <input checked="" type="checkbox"/> | 473,94 € |  |
| 9725 | TK 420 FDK 58 | DCM COLOUR DOME CAMERA | TKM / DCM | <input checked="" type="checkbox"/> | 473,94 € |  |

LEGEND

| | | | | |
|-------------------------------------|------------|--------------------------|---|------------------------------------|
| <input type="checkbox"/> | WHITE | <input type="checkbox"/> | 1 | ALUMINIUM |
| <input checked="" type="checkbox"/> | BLACK | <input type="checkbox"/> | 2 | ALPINE WHITE · ALUMINIUM LACQUERED |
| <input type="checkbox"/> | RED | <input type="checkbox"/> | 3 | STEEL · ALUMINIUM LACQUERED |
| <input type="checkbox"/> | BROWN | <input type="checkbox"/> | 4 | ALPINE WHITE |
| <input type="checkbox"/> | GREY | <input type="checkbox"/> | 5 | PLATINUM |
| <input type="checkbox"/> | LIGHT GRAY | <input type="checkbox"/> | 6 | GOLD · BRONZE |
| <input type="checkbox"/> | | <input type="checkbox"/> | 7 | ANTHRACITE · ALUMINIUM LACQUERED |
| <input type="checkbox"/> | | <input type="checkbox"/> | 8 | STAINLESS STEEL |
| <input type="checkbox"/> | | <input type="checkbox"/> | 9 | STEEL |



OVERVIEW FACILITY WEB FROM LINGG & JANKE



Lingg & Janke

10001010111010101110 /10000101*//1011011/1010101
 1000001000 / 10000111**** 1111// 1000010101011100/
 //101011000101 //enter//100000100101101***

KNX®

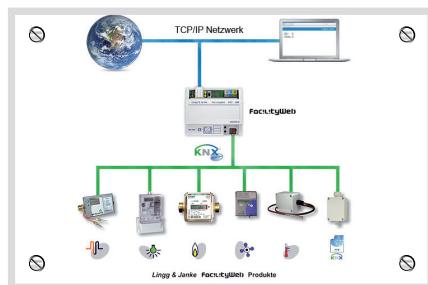
FacilityWeb from Lingg & Janke

Introduction

FacilityWeb is an extension of the KNX/EIB bus standard according to ISO/IEC 14543. It was developed by Lingg & Janke in cooperation with the KNX-association and its members.

FacilityWeb provides highly effective functions for measuring, visualizing and controlling the consumption of different energy sources via Intranet or Internet.

The consumption data is transmitted over the KNX bus to a web page where consumers can be switched on or off directly via the web browser's user interface.



IP-KNX Connection

The TCP/IP gateways NK-FW can be used as the connection between the KNX installation and the IP network. This gives the possibility to use a standard Internet browser and/or an FTP client to communicate with KNX products.

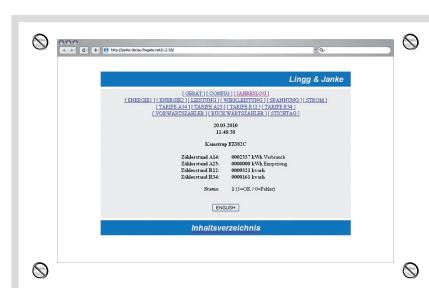
Visualize / Control

With Facility Web you can surf directly into the KNX devices to display for instance the status values and/or to control the functions of the device.

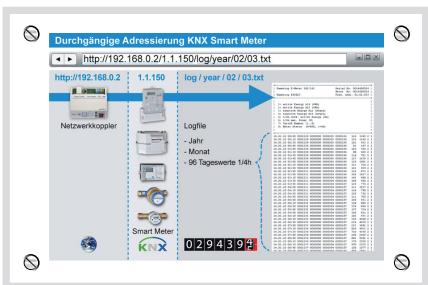


Energie Monitoring

The online values of the different meters can be displayed on a web page and the historic data, stored in the devices, can be downloaded via FTP.



Online consumption values displayed using a web browser



PROPERTIES METERS / SENSORS

- 1.- full FacilityWeb functionality (+NK-FW)
- 2.- integrated data logging (1 year)
- 3.- HTTP protocol (+NK-FW)
- 4.- dedicated homepage



NETWORK COUPLER

TCP/IP NK-FW GATEWAYS



| WEB. CODE | MAN. REF. | DESCRIPTION | PRICE |
|-----------|-----------|---|----------|
| 8188 | 87310 | STANDARD | 445,00 € |
| 10167 | 87320 | WITH INTEGRATED BATTERY-BACKED CLOCK | 487,00 € |
| 10180 | 87330 | WITH INTEGRATED BATTERY-BACKED CLOCK AND KNX-POWERSUPPL | 563,50 € |

| WEB. CODE | MAN. REF. | DESCRIPTION | PRICE |
|-----------|-----------|-------------|----------|
| 9105 | 87910 | - | 137,00 € |

| WEB. CODE | MAN. REF. | DESCRIPTION | PRICE |
|-----------|-----------|----------------------------|----------|
| 9530 | 87722 | SINGLE-PHASE 2-QUADRANT | 245,00 € |
| 9531 | 87731 | THREE-PHASE 1-QUADRANT | 275,00 € |
| 9532 | 87732 | THREE-PHASE 2-QUADRANT | 275,00 € |
| 9533 | 87744 | THREE-PHASE 4-QUADRANT REG | 340,00 € |
| 9889 | 87750 | THREE-PHASE 4-QUADRANT | 555,00 € |
| 9890 | 87751 | CURRENT TRANSFORMER | 590,00 € |

including integrated KNX-interface

ELECTRICAL ENERGY METERS
Kamstrup



| WEB. CODE | MAN. REF. | DESCRIPTION | PRICE |
|-----------|-----------|-----------------------------|----------|
| 9459 | 87130 | PIPE MOUNTING TEMP. SENSOR | 155,00 € |
| 9453 | 87101 | DUCT TEMP. SENSORS 135MM | 163,00 € |
| 9454 | 87102 | DUCT TEMP. SENSORS 240MM | 173,00 € |
| 9455 | 87103 | DUCT TEMP. SENSORS 392MM | 183,00 € |
| 9456 | 87104 | CABLE TEMP. SENSORS 1M | 163,00 € |
| 9457 | 87105 | CABLE TEMP. SENSORS 3M | 173,00 € |
| 9458 | 87120 | OUTDOOR TEMP. SENSOR | 155,00 € |
| 9460 | 87140 | INDOOR TEMP. SENSOR | 142,00 € |
| 10200 | 87150 | INDOOR TEMP./ HUMID. SENSOR | 142,00 € |

including integrated KNX-interface

TEMPERATURE / HUMIDITY SENSORS



| WEB. CODE | MAN. REF. | DESCRIPTION | NOMINAL DIAMETER | MEASURING RANGE | TYPE | PRICE |
|-----------|-----------|---------------------|------------------|--------------------------|-------------|-----------|
| 10182 | 85801 | DIAPHRAGM GAS METER | G4 DN25 | 0,04-6 m ³ /h | BK-GxA/ AE2 | 372,00 € |
| 10199 | 85811 | DIAPHRAGM GAS METER | G4 DN25 | 0,04-6 m ³ /h | Gx-RF1 | Consultar |

including KNX-interface in separate, wall mounted box

GAS METER
Elster / Itron





| WEB. CODE | MAN. REF. | DESCRIPTION | NOMINAL FLOW | LENGHT | CON. THREAD | °C MAX. | PRICE |
|-----------|-----------|-----------------------------------|-------------------------|---------------|--------------|---------|----------|
| 10201 | 85101 | SINGLE-JET DRY RUNNER WATER METER | Qn=1,5m ³ /h | 80mm - 16bar | 3/4"= DN15mm | | 193,00 € |
| 10202 | 85102 | | | 110mm - 16bar | | | 193,00 € |
| 10203 | 85103 | | | 130mm - 16bar | 1"= DN20mm | | 194,00 € |
| 10204 | 85111 | | | 80mm - 16bar | 3/4"= DN15mm | | 195,00 € |
| 10205 | 85112 | | | 110mm - 16bar | | | 195,00 € |
| 10206 | 85113 | | | 130mm - 16bar | 1"= DN20mm | | 196,00 € |

including KNX-interface in separate, wall mounted box

COLD WATER / WARM WATER METERS

HOUSEHOLD Andrae



| WEB. CODE | MAN. REF. | DESCRIPTION | NOMINAL FLOW | LENGHT | CON. THREAD | °C MAX. | PRICE |
|-----------|-----------|----------------------------------|-------------------------|--------|--------------|---------|----------|
| 10207 | 85140 | MULTI-JET DRY RUNNER WATER METER | Qn=2,5m ³ /h | 190mm | 3/4"= DN15mm | | 234,00 € |
| 10208 | 85141 | | | 260mm | | | 263,00 € |
| 10209 | 85142 | | | 300mm | 1"= DN20mm | | 328,00 € |
| 10210 | 85150 | | | 190mm | 3/4"= DN15mm | | 246,00 € |
| 10211 | 85151 | | | 260mm | 3/4"= DN15mm | | 275,00 € |
| 10212 | 85152 | | | 300mm | 1"= DN20mm | | 338,00 € |

including KNX-interface in separate, wall mounted box

TYPE MTK-HWX Andrae



| WEB. CODE | MAN. REF. | DESCRIPTION | NOMINAL FLOW | LENGHT | CON. THREAD | °C MAX. | DIRECTION | PRICE |
|-----------|-----------|---|-------------------------|--------|-------------|---------|------------|----------|
| 10213 | 85010 | MULTI-JET DRY RUNNER ELECTRONIC WATER METER | Qn=1,5m ³ /h | 100mm | G3/4" | | ANY | 290,00 € |
| 10214 | 85011 | | | | | | | 321,50 € |
| 10215 | 85030 | | | 130mm | | | | 349,00 € |
| 10216 | 85031 | | | | | | | 380,50 € |
| 10218 | 85040 | | | 190mm | G1" | | HORIZONTAL | 349,00 € |
| 10219 | 85041 | | | | | | | 349,00 € |
| 10220 | 85050 | | | 105mm | | | STANDPIPE | 380,50 € |
| 10221 | 85051 | | | | | | | 365,00 € |

including KNX-interface in separate, wall mounted box

ELECTRONIC, TYPE CORONA E Hydrometer



| WEB. CODE | MAN. REF. | DESCRIPTION | NOMINAL FLOW | LENGHT | CON. THREAD | °C MAX. | PRICE |
|-----------|-----------|---|-------------------------|--------|-------------|---------|----------|
| 10222 | 85201 | DRY RUNNER, WITH SHIELDED MAGNETIC COUPLING | Qn=2,5m ³ /h | 190mm | DN20, G1" | | 327,00 € |

including KNX-interface in separate, wall mounted box

ROTARY PISTON / Sensus



| WEB. CODE | MAN. REF. | DESCRIPTION | NOMINAL FLOW | LENGHT | CON. THREAD | °C MAX. | DIRECTION | PRICE |
|-----------|-----------|--|-------------------------|--------|-------------|---------|-----------|----------|
| 10223 | 85220 | SINGLE-JET DRY RUNNER, WITH SHIELDED MAGNETIC COUPLING | Qn=1,5m ³ /h | 110mm | DN15 G3/4" | | ANY | 240,00 € |
| 10224 | 85221 | | | | | | | 244,00 € |
| 10225 | 85230 | | Qn=2,5m ³ /h | 130mm | DN20 G1" | | | 249,00 € |
| 10226 | 85231 | | | | | | | 253,00 € |

including KNX-interface in separate, wall mounted box

HOUSEHOLD / Sensus




HEAT METERS
TYPE ZELSIUS / Zenner


| WEB. CODE | MAN. REF. | DESCRIPTION | NOMINAL FLOW | LENGHT | CON. THREAD | °C MAX. | PRICE |
|-----------|-----------|---------------------------------------|--------------|--------|-------------|----------|----------|
| 10196 | 85951 | HEAT METER WITH MULTI-JET FLOW SENSOR | Qn=0,6m³/h | 110mm | G3/4 B | 327,00 € | |
| 10197 | 85952 | | Qn=1,5m³/h | | | 0-105°C | 327,00 € |
| 10198 | 85953 | | Qn=2,5m³/h | 130mm | G1 B | | 332,00 € |

including KNX-interface in separate, wall mounted box

| WEB. CODE | MAN. REF. | DESCRIPTION | NOMINAL FLOW | LENGHT | CON. THREAD | °C MAX. | PRICE | TYPE MULTICAL 601 / ULTRAFLOW Kamstrup | |
|-----------|-----------|--|--------------|--------|-------------|-----------|----------|---|--|
| 10183 | 85901 | HEAT METER WITH ULTRASONIC FLOW SENSOR | Qn=0,6m³/h | 110mm | G3/4 B | 15-130°C | 429,00 € |  | |
| 10184 | 85902 | | Qn=1,5m³/h | 165mm | | | 429,00 € | | |
| 10185 | 85903 | | Qn=0,6m³/h | 130mm | | | 464,00 € | | |
| 10186 | 85904 | | Qn=1,5m³/h | 165mm | G1B | | 429,00 € | | |
| 10187 | 85905 | | Qn=0,6m³/h | 190mm | | | 429,00 € | | |
| 10188 | 85906 | | Qn=1,5m³/h | 260mm | | | 464,00 € | | |
| 10189 | 85907 | | Qn=0,6m³/h | 260mm | G5/4B | 721,00 € | 464,00 € | | |
| 10190 | 85908 | | Qn=1,5m³/h | 300mm | | | 802,00 € | | |
| 10191 | 85909 | | Qn=2,5m³/h | | G2B | 1004,00 € | 464,00 € | | |
| 10192 | 85910 | | Qn=3,5m³/h | | | | | | |
| 10194 | 85911 | | Qn=6m³/h | | | | | | |
| 10195 | 85912 | | Qn=10m³/h | | | | | | |

including integrated KNX-interface



KNX IP SWITCHES

Lingg & Janke

KNX IP switches by Lingg & Janke comprise a main module with KNX bus coupling unit. Up to three extension modules, connected by prefabricated cables, open out the functional range of the KNX IP switch main module. As many as 16 switching functions can thus be implemented without great expense, using just one bus coupling unit.

Both, main and extension modules, can accommodate single or double rocker switches. The rockers are designed as pushbuttons with neutral position so that they can provide different switching functions, such as ON/OFF, dimmer, or louvre blinds control.

Easy Parameter Definition

In the ETS application software, you always go through the same steps when setting the module parameters, be it the main module or the extension module. For every module you decide whether the switch function is to be implemented by a rocker switch action or a single-key pushbutton action. The switch action itself can be an ON/OFF or dimmer operation, louvre blinds or scenario control, or a value setting function.

Our Range of Switches

The switching rockers are available in the color arctic-white and with laser-engraved labeling. All IP switching modules are offered with single or double rocker unit. KNX IP switches are compatible with the Kopp Design HK05 switch range and can thus be freely combined with these devices.



FacilityWeb®

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| WEB CODE | MANUF. REFERENCE | DESCRIPTION | DES. RANGE | COLOUR | LIST PRICE | IMAGE |
|----------|------------------|-------------|------------|--------|------------|-------|
|----------|------------------|-------------|------------|--------|------------|-------|

IP SWITCHES / MAIN AND EXTENSION MODULES

| | | | | | | |
|------|-------|--|----------------------|-------------------------------------|---------|--|
| 9841 | 87800 | MAIN MODULE | HK05 FACILITY WEB | <input checked="" type="checkbox"/> | 55,00 € | |
| 9842 | 87801 | EXTENSION MODULE (CONNECTING CABLE 20 CM) | HK05 FACILITY WEB | <input checked="" type="checkbox"/> | 41,00 € | |
| 9843 | 87802 | EXTENSION MODULE (CONNECTING CABLE 27 CM) | HK05 FACILITY WEB | <input checked="" type="checkbox"/> | 41,10 € | |
| 9844 | 87803 | EXTENSION MODULE (CONNECTING CABLE 35 CM) | HK05 FACILITY WEB | <input checked="" type="checkbox"/> | 41,25 € | |
| 9845 | 87804 | EXTENSION MODULE (CONNECTING CABLE 50 CM) | HK05 FACILITY WEB | <input checked="" type="checkbox"/> | 41,40 € | |

IP SWITCHES / ROCKER UNITS FOR IP PUSH BUTTON

| | | | | | | |
|------|-------|---------------------------------------|----------------------|----------------------------|--------|--|
| 9846 | 87810 | ROCKER 1-FOLD WITOUTH LABEL | HK05 FACILITY WEB | <input type="checkbox"/> 1 | 2,10 € | |
| 9848 | 87813 | ROCKER 2-FOLD WITOUTH LABEL | HK05 FACILITY WEB | <input type="checkbox"/> 1 | 3,50 € | |
| 9849 | 87811 | ROCKER 1-FOLD WITH LABEL FOR LIGHT | HK05 FACILITY WEB | <input type="checkbox"/> 1 | 2,80 € | |
| 9850 | 87814 | ROCKER 2-FOLD WITH LABEL FOR LIGHT | HK05 FACILITY WEB | <input type="checkbox"/> 1 | 4,25 € | |
| 9851 | 87812 | ROCKER 1-FOLD WITH LABEL FOR SHUTTERS | HK05 FACILITY WEB | <input type="checkbox"/> 1 | 2,80 € | |
| 9852 | 87815 | ROCKER 2-FOLD WITH LABEL FOR SHUTTERS | HK05 FACILITY WEB | <input type="checkbox"/> 1 | 4,25 € | |

IP SWITCHES / STANDARD MODULES / FLUSH-MOUNTED STANDARD MODULE INSERTS

| | | | | | | |
|------|-------|--|------|-------------------------------------|--------|--|
| 9853 | 86006 | STANDARD MODULE INSERTS 10AX, 250V, - ROCKER SWITCH CHANGE OVER | HK05 | <input checked="" type="checkbox"/> | 3,35 € | |
| 9854 | 86002 | STANDARD MODULE INSERTS 10AX, 250V, - ROCKER SWITCH 2 POLE ON/OFF | HK05 | <input checked="" type="checkbox"/> | 6,53 € | |
| 9855 | 86007 | STANDARD MODULE INSERTS 10AX, 250V, - ROCKER SWITCH INTERMEDIATE | HK05 | <input checked="" type="checkbox"/> | 5,94 € | |

| | | IP SWITCHES FROM FACILITY WEB LINGG & JANKE | | | | |
|----------|------------------|---|------------|--------|------------|-------|
| WEB CODE | MANUF. REFERENCE | DESCRIPTION | DES. RANGE | COLOUR | LIST PRICE | IMAGE |

IP SWITCHES / STANDARD MODULES / FLUSH-MOUNTED STANDARD MODULE INSERTS

| | | | | | | |
|------|-------|---|------|-------------------------------------|--------|---|
| 9856 | 86016 | STANDARD MODULE INSERTS 10AX, 250V, - ROCKER SWITCH CHANGE OVER ILLUMINATED | HK05 | <input checked="" type="checkbox"/> | 7,06 € |  |
| 9857 | 86005 | STANDARD MODULE INSERTS 10AX, 250V, - ROCKER SWITCH SERIES | HK05 | <input checked="" type="checkbox"/> | 4,24 € |  |
| 9858 | 86031 | STANDARD MODULE INSERTS 10AX, 250V, - ROCKER PUSH BUTTON (NO) | HK05 | <input checked="" type="checkbox"/> | 3,86 € |  |
| 9859 | 86010 | STANDARD MODULE INSERTS 10AX, 250V, - GLOW LAMP | HK05 | <input checked="" type="checkbox"/> | 2,29 € |  |

IP SWITCHES / STANDARD MODULES / SCHUKO SOCKET OUTLET

| | | | | | | |
|------|-------|--|------|-------------------------------------|---------|---|
| 9870 | 86110 | SCHUKO SOCKET OUTLET | HK05 | <input type="checkbox"/> 1 | 2,53 € |  |
| 9871 | 86111 | SCHUKO SOCKET OUTLET WITH CHILD PROTECTION | HK05 | <input type="checkbox"/> 1 | 3,68 € |  |
| 9872 | 86112 | SCHUKO SOCKET OUTLET WITH HINGED COVER | HK05 | <input type="checkbox"/> 1 | 5,33 € |  |
| 9873 | 86113 | SCHUKO SOCKET OUTLET WITH OVERVOLTAGE PROTECTION (MAX. 3600 W) | HK05 | <input type="checkbox"/> 1 | 39,80 € |  |
| 9874 | 86114 | SCHUKO SOCKET OUTLET WITH OVERVOLTAGE PROTECTION (MAX. 3600 W) | HK05 | <input checked="" type="checkbox"/> | 41,43 € |  |

IP SWITCHES / STANDARD MODULES / ROCKER UNITS, CENTRE PLATES ...

| | | | | | | |
|------|-------|-------------------------------|------|----------------------------|--------|---|
| 9861 | 86100 | ROCKER WITHOUT LENS | HK05 | <input type="checkbox"/> 1 | 1,47 € |  |
| 9862 | 86101 | ROCKER WITH LENS | HK05 | <input type="checkbox"/> 1 | 1,94 € |  |
| 9863 | 86102 | ROCKER WITHOUT LENS (SERIES) | HK05 | <input type="checkbox"/> 1 | 2,10 € |  |
| 9864 | 86103 | ROCKER WITH LABELING FIELD | HK05 | <input type="checkbox"/> 1 | 3,14 € |  |
| 9865 | 86104 | BLANK PLATE WITH CENTRE PLATE | HK05 | <input type="checkbox"/> 1 | 5,71 € |  |

| Ø | IP SWITCHES FROM FACILITY WEB LINGG & JANKE | | | | Ø | |
|----------|---|-------------|------------|--------|------------|-------|
| WEB CODE | MANUF. REFERENCE | DESCRIPTION | DES. RANGE | COLOUR | LIST PRICE | IMAGE |

IP SWITCHES / STANDARD MODULES / ROCKER UNITS, CENTRE PLATES ...

| | | | | | | |
|------|-------|--|------|----------------------------|--------|---|
| 9866 | 86105 | CENTRE PLATE FOR AERIAL SOCKET 2 HOLE (TV/RADIO) | HK05 | <input type="checkbox"/> 1 | 2,69 € |  |
| 9867 | 86106 | CENTRE PLATE FOR AERIAL SOCKET 3 HOLE (TV/RADIO/SAT) | HK05 | <input type="checkbox"/> 1 | 3,06 € |  |
| 9868 | 86107 | CENTRE PLATE FOR TAE SOCKET OUTLET | HK05 | <input type="checkbox"/> 1 | 3,04 € |  |
| 9869 | 86108 | CENTRE PLATE FOR FCC/IAE/Telekom ISDN SOCKET OUTLET | HK05 | <input type="checkbox"/> 1 | 3,04 € |  |

IP SWITCHES / FRAMES FOR IP PUSH BUTTONS

| | | | | | | |
|------|-------|--------------|------|----------------------------|--------|---|
| 9875 | 86121 | FRAME 1-GANG | HK05 | <input type="checkbox"/> 1 | 1,18 € |  |
| 9876 | 86122 | FRAME 2-GANG | HK05 | <input type="checkbox"/> 1 | 2,02 € |  |
| 9877 | 86123 | FRAME 3-GANG | HK05 | <input type="checkbox"/> 1 | 3,16 € |  |
| 9878 | 86124 | FRAME 4-GANG | HK05 | <input type="checkbox"/> 1 | 4,53 € |  |

LEGEND
 RED  1 ARCTIC WHITE

COMPARATIVE TABLES



Everything you need in one place



COMPARATIVE TABLE – ENERGY METERS / ACTUATORS

- ⇒ The importance of Smart Metering in Home and Building Automation is growing bigger everyday. Not only is it a very useful feature for any home / building owner, but it has also become a compulsory element in order to comply with more and more legal regulations and directives all around the world.
- ⇒ There are quite a few hardware / software solutions for the control and monitoring of Smart Metering in a KNX System, but first of all you need to obtain all the consumption data and have it sent to the Bus.
- ⇒ Choosing the right counter is not always easy because there are numerous factors to take into account (Ex.: current, phases, tariffs, type of energy, etc.). With this Comparative Table of Energy Meters for KNX we are hoping to make this task much easier.



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| | | | |
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KNX ENERGY METERS / SINGLE-PHASE / DIRECT CONNECTION

| | | | |
|--|---|-------|----------|
| MANUFACTURER | LINGG & JANKE | | |
| IMAGE |  | | |
| WEB CODE | 9530 | | |
| MANUF REFERENCE | 87722 | | |
| DESCRIPTION | DIRECT CONNECTION- SINGLE-PHASE AC 2 QUADRANT MULTI-TARIFF- ACTIVE ENERGY COUNTER | | |
| DES. RANGE | FACILITYWEB | | |
| VOLTAGE V AC | 1 X 230 | | |
| CURRENT A AC | 85 | | |
| DIN U | FLUSH MOUNTED | | |
| OTHER FEATURES | | | |
| PHASES | 1 | | |
| TARIFFS | 8 | | |
| PRECISION CLASS | C | | |
| QUADRANT (SUPPLY AND PURCHASE) | 2 | | |
| MID (MEASURING INSTRUMENT DIRECTIVE) | YES | | |
| BUS CONNECTION | KNX | | |
| ACTIVE ENERGIE | YES | | |
| REACTIVE ENERGIE | NO | | |
| DIRECT CONNECTION | X | | |
| CURRENT TRANSFORMER CONNECTION - CURRENT RATIO DETERMINED VIA: | APPLIC. PROGRAM | FIXED | BY ORDER |
| LIST PRICE | 245,00 € | | |



KNX ENERGY METERS / THREE-PHASE / DIRECT CONNECTION

| MANUFACTURER | HAGER | LINGG & JANKE |
|--|---|---|
| IMAGE |  |  |
| WEB CODE | 9891 | 9531 |
| MANUF REFERENCE | TE360 | 87731 |
| DESCRIPTION | DIRECT CONNECTION, THREE-PHASE ACTIVE ENERGY COUNTER WITH REACTIVE ENERGY MEASUREMENT +/- 15% | DIRECT CONNECTION, THREE-PHASE MULTI-TARIFF- ACTIVE ENERGY COUNTER |
| DES. RANGE | TEBIS KNX | FACILITYWEB |
| VOLTAGE V AC | 3 x 230/400VAC | 3x230/400V |
| CURRENT A AC | 100 | 85 |
| DIN U | 7 | FLUSH MOUNTED |
| OTHER FEATURES | | |
| PHASES | 3 | 3 |
| TARIFFS | 2 | 2 |
| PRECISION CLASS | ACTIVE = B, 1% BLIND = +/- 15% | 2 |
| QUADRANT (SUPPLY AND PURCHASE) | 1 | 1 |
| MID (MEASURING INSTRUMENT DIRECTIVE) | NO | YES |
| BUS CONNECTION | KNX | KNX |
| ACTIVE ENERGIE | YES | YES |
| REACTIVE ENERGIE | +/- 15% | NO |
| DIRECT CONNECTION | YES | YES |
| CURRENT TRANSFORMER CONNECTION - CURRENT RATIO DETERMINED VIA: | APPLIC. PROGRAM FIXED BY ORDER | APPLIC. PROGRAM FIXED BY ORDER |
| LIST PRICE | 400,40 € | 275,00 € |



KNX ENERGY METERS / THREE-PHASE / DIRECT CONNECTION

| MANUFACTURER | LINGG & JANKE | SIEMENS |
|--|---|---|
| IMAGE |  |  |
| WEB CODE | 9532 | 4124 |
| MANUF REFERENCE | 87732 | 7KT1 162 |
| DESCRIPTION | DIRECT CONNECTION, THREE-PHASE 2 QUADRANT MULTI-TARIFF- ACTIVE ENERGY COUNTER | DIRECT CONNECTION, THREE-PHASE MULTI-TARIFF- 2 TARIFF ACTIVE ENERGY COUNTER N162 |
| DES. RANGE | FACILITYWEB | GAMMA GEBÄUDESYSTEMTECHNIK |
| VOLTAGE V AC | 3 x 230/400V | 3x230/400 |
| CURRENT A AC | 85 | 10(63) |
| DIN U | FLUSH MOUNTED | 6 |
| OTHER FEATURES | | |
| PHASES | 3 | 3 |
| TARIFFS | 8 | 2 |
| PRECISION CLASS | C | 2 |
| QUADRANT (SUPPLY AND PURCHASE) | 2 | 1 |
| MID (MEASURING INSTRUMENT DIRECTIVE) | YES | NO |
| BUS CONNECTION | KNX | KNX |
| ACTIVE ENERGIE | YES | YES |
| REACTIVE ENERGIE | NO | IR - NOT KNX |
| DIRECT CONNECTION | YES | YES |
| CURRENT TRANSFORMER CONNECTION - CURRENT RATIO DETERMINED VIA: | APPLIC. PROGRAM FIXED BY ORDER | APPLIC. PROGRAM FIXED BY ORDER |
| LIST PRICE | 275,00 € | 860,00 € |



KNX ENERGY METERS / THREE-PHASE / DIRECT CONNECTION

| MANUFACTURER | LINGG & JANKE | | |
|--|---|-------|-------------|
| IMAGE |  | | |
| WEB CODE | 9533 | | |
| MANUF REFERENCE | 87744 | | |
| DESCRIPTION | DIRECT CONNECTION- THREE-PHASE 4 QUADRANT ACTIVE- AND REACTIVE ENERGYZÄHLER | | |
| DES. RANGE | FACILITYWEB | | |
| VOLTAGE V AC | 3 x 230/400V | | |
| CURRENT A AC | 85 | | |
| DIN U | NO | | |
| OTHER FEATURES | | | |
| PHASES | 3 | | |
| TARIFFS | 8 | | |
| PRECISION CLASS | C | | |
| QUADRANT (SUPPLY AND PURCHASE) | 4 | | |
| MID (MEASURING INSTRUMENT DIRECTIVE) | YES | | |
| BUS CONNECTION | KNX | | |
| ACTIVE ENERGIE | YES | | |
| REACTIVE ENERGIE | YES | | |
| DIRECT CONNECTION | YES | | |
| CURRENT TRANSFORMER CONNECTION - CURRENT RATIO DETERMINED VIA: | APPLIC. PROGRAM | FIXED | BY ORDER |
| LIST PRICE | 340,00 € | | |



KNX ENERGY METERS / THREE-PHASE / TRANSFORMER RATED

| MANUFACTURER | HAGER | SIEMENS |
|--|---|--|
| IMAGE |  |  |
| WEB CODE | 9892 | 4125 |
| MANUF REFERENCE | TE370 | 7KT1 165 |
| DESCRIPTION | ACTIVE ENERGY- THREE-PHASE TRANSFORMER RATED COUNTER WITH REACTIVE ENERGY MEASUREMENT +/- 15% | MULTI-TARIFF COUNTER - 2 TARIFF, ACTIVE ENERGY- THREE-PHASE TRANSFORMER RATED COUNTER N165 |
| DES. RANGE | TEBIS KNX | GAMMA GEBÄUDESYSTEMTECHNIK |
| VOLTAGE V AC | 3X230/400V AC | 3X230/400 |
| CURRENT A AC | 0,01 UP 6 A | 5(6) |
| DIN U | 4 | 6 |
| OTHER FEATURES | | |
| PHASES | 3 | 3 |
| TARIFFS | 2 | 2 |
| PRECISION CLASS | ACTIVE = B, 1% BLIND = +/- 15% | 2 |
| QUADRANT (SUPPLY AND PURCHASE) | 1 | 1 |
| MID (MEASURING INSTRUMENT DIRECTIVE) | NO | NO |
| BUS CONNECTION | KNX | KNX |
| ACTIVE ENERGIE | YES | YES |
| REACTIVE ENERGIE | +/- 15% | IR - NOT KNX |
| DIRECT CONNECTION | NO | NO |
| CURRENT TRANSFORMER CONNECTION - CURRENT RATIO DETERMINED VIA: | APPLIC. PROGRAM YES | APPLIC. PROGRAM YES |
| | FIXED | FIXED |
| | BY ORDER | BY ORDER |
| LIST PRICE | 390,00 € | 860,00 € |



KNX ENERGY METERS / THREE-PHASE / TRANSFORMER RATED

| MANUFACTURER | LINGG & JANKE | | LINGG & JANKE | | | |
|--|---|--------------|---|-----------------|-------|-----------------|
| IMAGE |  | |  | | | |
| WEB CODE | 9889 | | 9890 | | | |
| MANUF REFERENCE | 87750 | | 87751 | | | |
| DESCRIPTION | ACTIVE AND REACTIVE ENERGY THREE-PHASE 4 QUADRANT TRANSFORMER RATED COUNTER 5 A/5 A | | ACTIVE AND REACTIVE ENERGY THREE-PHASE 4 QUADRANT TRANSFORMER RATED COUNTER 5 A | | | |
| DES. RANGE | FACILITYWEB | | FACILITYWEB | | | |
| VOLTAGE V AC | NO | | NO | | | |
| CURRENT A AC | 5 | | 5 | | | |
| DIN U | NO | | NO | | | |
| OTHER FEATURES | | | | | | |
| PHASES | 3 | | 3 | | | |
| TARIFFS | 8 | | 8 | | | |
| PRECISION CLASS | C | | C | | | |
| QUADRANT (SUPPLY AND PURCHASE) | 4 | | 4 | | | |
| MID (MEASURING INSTRUMENT DIRECTIVE) | YES | | YES | | | |
| BUS CONNECTION | KNX | | KNX | | | |
| ACTIVE ENERGIE | YES | | YES | | | |
| REACTIVE ENERGIE | YES | | YES | | | |
| DIRECT CONNECTION | NO | | NO | | | |
| CURRENT TRANSFORMER CONNECTION - CURRENT RATIO DETERMINED VIA: | APPLIC. PROGRAM | FIXED YES | BY ORDER | APPLIC. PROGRAM | FIXED | BY ORDER YES |
| LIST PRICE | 555,00 € | | 590,00 € | | | |



CONVENTIONAL METERS (REQ. KNX INTERFACE) / SINGLE-PHASE / DIRECT CONNECTION

| MANUFACTURER | ABB | | ABB | | | |
|--|---|-------|---|--------------------|-------|-------------|
| IMAGE |  | |  | | | |
| WEB CODE | 9900 | | 9907 | | | |
| MANUF REFERENCE | DBB21000 | | FBB 11200 | | | |
| DESCRIPTION | DIRECT CONNECTION - SINGLE - PHASE AC ACTIVE ENERGY COUNTER | | DIRECT CONNECTION - SINGLE - PHASE AC SINGLE-TARIFF | | | |
| DES. RANGE | DELTAPLUS DIREKTMESSENDE ZÄHLER | | DELTASINGLE | | | |
| VOLTAGE V AC | 1x57 ... 288 | | 230 | | | |
| CURRENT A AC | 5(80) | | 5(80) | | | |
| DIN U | 7 | | 4 | | | |
| OTHER FEATURES | WITH PULSE OUTPUT | | | | | |
| PHASES | 1 | | 1 | | | |
| TARIFFS | NO | | 1 | | | |
| PRECISION CLASS | 2 | | 1 | | | |
| QUADRANT (SUPPLY AND PURCHASE) | 1 | | 1 | | | |
| MID (MEASURING INSTRUMENT DIRECTIVE) | YES | | YES | | | |
| BUS CONNECTION | + ZS/S 1.1 | | + ZS/S 1.1 | | | |
| ACTIVE ENERGIE | YES | | YES | | | |
| REACTIVE ENERGIE | NO | | NO | | | |
| DIRECT CONNECTION | YES | | YES | | | |
| CURRENT TRANSFORMER CONNECTION - CURRENT RATIO DETERMINED VIA: | APPLIC. PROGRAM | FIXED | BY ORDER | APPLIC. PROGRAM | FIXED | BY ORDER |
| LIST PRICE | 284,00 € | | 194,00 € | | | |



CONVENTIONAL METERS (REQ. KNX INTERFACE) / SINGLE-PHASE / DIRECT CONNECTION

| MANUFACTURER | ABB | ABB | | | | |
|--|---|---|---------------------------|----------------------------------|---------------------|---------------------------|
| IMAGE |  |  | | | | |
| WEB CODE | 9908 | 9909 | | | | |
| MANUF REFERENCE | FBB 11205 | FBB 11206 | | | | |
| DESCRIPTION | DIRECT CONNECTION - SINGLE - PHASE AC MUTLI-TARIFF COUNTER - 2 TARIFF | DIRECT CONNECTION - SINGLE - PHASE AC MUTLI-TARIFF COUNTER - 4 TARIFF | | | | |
| DES. RANGE | DELTASINGLE | DELTASINGLE | | | | |
| VOLTAGE V AC | 230 | 230 | | | | |
| CURRENT A AC | 5(80) | 5(80) | | | | |
| DIN U | 4 | 4 | | | | |
| OTHER FEATURES | WITH INTEGR. WATCH & PULSE OUTPUT | WITH INTEGR. WATCH & PULSE OUTPUT | | | | |
| PHASES | 1 | 1 | | | | |
| TARIFFS | 2 | 3 | | | | |
| PRECISION CLASS | 1 | 1 | | | | |
| QUADRANT (SUPPLY AND PURCHASE) | 1 | 1 | | | | |
| MID (MEASURING INSTRUMENT DIRECTIVE) | YES | YES | | | | |
| BUS CONNECTION | + ZS/S 1.1 | + ZS/S 1.1 | | | | |
| ACTIVE ENERGIE | YES | YES | | | | |
| REACTIVE ENERGIE | NO | NO | | | | |
| DIRECT CONNECTION | YES | YES | | | | |
| CURRENT TRANSFORMER CONNECTION - CURRENT RATIO DETERMINED VIA: | APPLIC. PROGRAM | FIXED | BY ORDER | APPLIC. PROGRAM | FIXED | BY ORDER |
| LIST PRICE | 205,00 € | 244,00 € | | | | |



CONVENTIONAL METERS (REQ. KNX INTERFACE) / SINGLE-PHASE / DIRECT CONNECTION

| | | | | | | |
|--|---|-------|---|--------------------|-------|-------------|
| MANUFACTURER | ABB | | ABB | | | |
| IMAGE |  | |  | | | |
| WEB CODE | 9910 | | 9911 | | | |
| MANUF REFERENCE | FBU 11200 | | FBU 11205 | | | |
| DESCRIPTION | DIRECT CONNECTION - SINGLE - PHASE AC SINGLE-TARIFF | | DIRECT CONNECTION - SINGLE - PHASE AC MULTI-TARIFF COUNTER - 2 TARIFF | | | |
| DES. RANGE | DELTASINGLE | | DELTASINGLE | | | |
| VOLTAGE V AC | 230 | | 230 | | | |
| CURRENT A AC | 5(80) | | 5(80) | | | |
| DIN U | 4 | | 4 | | | |
| OTHER FEATURES | | | WITH INTEGR. WATCH | | | |
| PHASES | 1 | | 1 | | | |
| TARIFFS | 1 | | 2 | | | |
| PRECISION CLASS | 1 | | 1 | | | |
| QUADRANT (SUPPLY AND PURCHASE) | 1 | | 1 | | | |
| MID (MEASURING INSTRUMENT DIRECTIVE) | YES | | YES | | | |
| BUS CONNECTION | + ZS/S 1.1 | | + ZS/S 1.1 | | | |
| ACTIVE ENERGIE | YES | | YES | | | |
| REACTIVE ENERGIE | NO | | NO | | | |
| DIRECT CONNECTION | YES | | YES | | | |
| CURRENT TRANSFORMER CONNECTION - CURRENT RATIO DETERMINED VIA: | APPLIC. PROGRAM | FIXED | BY ORDER | APPLIC. PROGRAM | FIXED | BY ORDER |
| LIST PRICE | 192,00 € | | 201,00 € | | | |



CONVENTIONAL METERS (REQ. KNX INTERFACE) / SINGLE-PHASE / DIRECT CONNECTION

| MANUFACTURER | ABB | ABB |
|--|---|---|
| IMAGE |  |  |
| WEB CODE | 9912 | 9913 |
| MANUF REFERENCE | FBU 11206 | OD 1065 |
| DESCRIPTION | DIRECT CONNECTION - SINGLE - PHASE | DIRECT CONNECTION - SINGLE - PHASE AC ACTIVE ENERGY COUNTER |
| DES. RANGE | DELTASINGLE | ODINSINGLE (i) |
| VOLTAGE V AC | 230 | 230 |
| CURRENT A AC | 5(80) | 65 |
| DIN U | 4 | 2 |
| OTHER FEATURES | WITH INTEGR. WATCH | |
| PHASES | 1 | 1 |
| TARIFFS | 4 | NO |
| PRECISION CLASS | 1 | 1 |
| QUADRANT (SUPPLY AND PURCHASE) | 1 | 1 |
| MID (MEASURING INSTRUMENT DIRECTIVE) | YES | YES |
| BUS CONNECTION | + ZS/S 1.1 | + ZS/S 1.1 |
| ACTIVE ENERGIE | YES | YES |
| REACTIVE ENERGIE | NO | NO |
| DIRECT CONNECTION | YES | YES |
| CURRENT TRANSFORMER CONNECTION - CURRENT RATIO DETERMINED VIA: | APPLIC. PROGRAM FIXED BY ORDER | APPLIC. PROGRAM FIXED BY ORDER |
| LIST PRICE | 242,00 € | 163,00 € |

(i) DOES NOT COMPLY DIN TYPE



CONVENTIONAL METERS (REQ. KNX INTERFACE) / SINGLE-PHASE / TRANSFORMER RATED

| | | | |
|--|---|-------|----------|
| MANUFACTURER | ABB | | |
| IMAGE |  | | |
| WEB CODE | 9901 | | |
| MANUF REFERENCE | DAB11000 | | |
| DESCRIPTION | ACTIVE ENERGY - SINGLE - PHASE AC TRANSFORMER RATED COUNTER | | |
| DES. RANGE | DELTAPLUS STANDARD-ZÄHLER | | |
| VOLTAGE V AC | 1x57 ... 288 | | |
| CURRENT A AC | 1 (6) | | |
| DIN U | 7 | | |
| OTHER FEATURES | | | |
| PHASES | 1 | | |
| TARIFFS | NO | | |
| PRECISION CLASS | 1 | | |
| QUADRANT (SUPPLY AND PURCHASE) | 1 | | |
| MID (MEASURING INSTRUMENT DIRECTIVE) | YES | | |
| BUS CONNECTION | + ZS/S 1.1 | | |
| ACTIVE ENERGIE | YES | | |
| REACTIVE ENERGIE | NO | | |
| DIRECT CONNECTION | NO | | |
| CURRENT TRANSFORMER CONNECTION - CURRENT RATIO DETERMINED VIA: | APPLIC. PROGRAM | FIXED | BY ORDER |
| LIST PRICE | 284,00 € | | |



CONVENTIONAL METERS (REQ. KNX INTERFACE) / THREE-PHASE / DIRECT CONNECTION

| MANUFACTURER | ABB | ABB |
|--|---|---|
| IMAGE |  |  |
| WEB CODE | 9894 | 9895 |
| MANUF REFERENCE | DBB12000 | DBB22000 |
| DESCRIPTION | DIRECT CONNECTION, THREE - PHASE ACTIVE ENERGY COUNTER | DIRECT CONNECTION, THREE - PHASE ACTIVE ENERGY COUNTER |
| DES. RANGE | DELTAPLUS DIREKTMESSENDE ZÄHLER | DELTAPLUS DIREKTMESSENDE ZÄHLER |
| VOLTAGE V AC | 3x100 ... 500 | 3x100 ... 500 |
| CURRENT A AC | 5(80) | 5(80) |
| DIN U | 7 | 7 |
| OTHER FEATURES | | |
| PHASES | 3 | 3 |
| TARIFFS | NO | NO |
| PRECISION CLASS | 1 | 2 |
| QUADRANT (SUPPLY AND PURCHASE) | 1 | 1 |
| MID (MEASURING INSTRUMENT DIRECTIVE) | X | X |
| BUS CONNECTION | + ZS/S 1.1 | + ZS/S 1.1 |
| ACTIVE ENERGIE | YES | YES |
| REACTIVE ENERGIE | NO | NO |
| DIRECT CONNECTION | YES | YES |
| CURRENT TRANSFORMER CONNECTION - CURRENT RATIO DETERMINED VIA: | APPLIC. PROGRAM FIXED BY ORDER | APPLIC. PROGRAM FIXED BY ORDER |
| LIST PRICE | 503,00 € | 431,00 € |



CONVENTIONAL METERS (REQ. KNX INTERFACE) / THREE-PHASE / DIRECT CONNECTION

| | | |
|--|---|---|
| MANUFACTURER | ABB | ABB |
| IMAGE |  |  |
| WEB CODE | 9896 | 9897 |
| MANUF REFERENCE | DBB13000 | DBB23000 |
| DESCRIPTION | DIRECT CONNECTION, THREE - PHASE ACTIVE ENERGY COUNTER | DIRECT CONNECTION, THREE - PHASE ACTIVE ENERGY COUNTER |
| DES. RANGE | DELTAPLUS DIREKTMESSENDE ZÄHLER | DELTAPLUS DIREKTMESSENDE ZÄHLER |
| VOLTAGE V AC | 3 x 57/100 UP TO 3 x 288/500 | 3 x 57/100 UP TO 3 x 288/500 |
| CURRENT A AC | 5(80) | 5(80) |
| DIN U | 7 | 7 |
| OTHER FEATURES | | |
| PHASES | 3 | 3 |
| TARIFFS | NO | NO |
| PRECISION CLASS | 1 | 2 |
| QUADRANT (SUPPLY AND PURCHASE) | 1 | 1 |
| MID (MEASURING INSTRUMENT DIRECTIVE) | YES | YES |
| BUS CONNECTION | + ZS/S 1.1 | + ZS/S 1.1 |
| ACTIVE ENERGIE | YES | YES |
| REACTIVE ENERGIE | NO | NO |
| DIRECT CONNECTION | YES | YES |
| CURRENT TRANSFORMER CONNECTION - CURRENT RATIO DETERMINED VIA: | APPLIC. PROGRAM FIXED BY ORDER | APPLIC. PROGRAM FIXED BY ORDER |
| LIST PRICE | 460,00 € | 391,00 € |



CONVENTIONAL METERS (REQ. KNX INTERFACE) / THREE-PHASE / DIRECT CONNECTION

| MANUFACTURER | ABB | ABB |
|--|--|---|
| IMAGE |  |  |
| WEB CODE | 9898 | 9899 |
| MANUF REFERENCE | DBB23002 | DBB23004 |
| DESCRIPTION | DIRECT CONNECTION, THREE - PHASE MULTI-TARIFF COUNTER - 4 TARIFF, (CONTROL OF THE 4 TARIFFS VIA 230 V INPUT) | DIRECT CONNECTION, THREE - PHASE MULTI-TARIFF COUNTER - 4 TARIFF (CONTROL OF THE 4 TARIFFS VIA COMMUNICATION) |
| DES. RANGE | DELTAPLUS DIREKTMESSENDE ZÄHLER | DELTAPLUS DIREKTMESSENDE ZÄHLER |
| VOLTAGE V AC | 3 x 57/100 UP TO 3 x 288/500 | 3 x 57/100 UP TO 3 x 288/500 |
| CURRENT A AC | 5(80) | 5(80) |
| DIN U | 7 | 7 |
| OTHER FEATURES | | |
| PHASES | 3 | 3 |
| TARIFFS | 4 | 4 |
| PRECISION CLASS | 2 | 2 |
| QUADRANT (SUPPLY AND PURCHASE) | 1 | 1 |
| MID (MEASURING INSTRUMENT DIRECTIVE) | YES | YES |
| BUS CONNECTION | + ZS/S 1.1 | + ZS/S 1.1 |
| ACTIVE ENERGIE | YES | YES |
| REACTIVE ENERGIE | NO | NO |
| DIRECT CONNECTION | YES | YES |
| CURRENT TRANSFORMER CONNECTION - CURRENT RATIO DETERMINED VIA: | APPLIC. PROGRAM | APPLIC. PROGRAM |
| | FIXED | BY ORDER |
| LIST PRICE | 505,00 € | 505,00 € |

CONVENTIONAL METERS (REQ. KNX INTERFACE) / THREE-PHASE / DIRECT CONNECTION

| MANUFACTURER | ABB | ABB |
|--|---|---|
| IMAGE |  |  |
| WEB CODE | 9915 | 9914 |
| MANUF REFERENCE | OD 4165 | OD 1365 |
| DESCRIPTION | DIRECT CONNECTION, THREE - PHASE ACTIVE ENERGY COUNTER 4-LEITER | DIRECT CONNECTION - SINGLE - PHASE AC ACTIVE ENERGY COUNTER |
| DES. RANGE | ODIN-METER() | ODINSINGLE() |
| VOLTAGE V AC | 3 x 230/400 | 230 |
| CURRENT A AC | 65 | 65 |
| DIN U | 6 | 2 |
| OTHER FEATURES | WITH RESETABLE INTERMEDIATE COUNTER & PULSE OUTPUT | |
| PHASES | 3 | 1 |
| TARIFFS | NO | NO |
| PRECISION CLASS | 2 | 1 |
| QUADRANT (SUPPLY AND PURCHASE) | 1 | 1 |
| MID (MEASURING INSTRUMENT DIRECTIVE) | YES | YES |
| BUS CONNECTION | + ZS/S 1.1 | + ZS/S 1.1 |
| ACTIVE ENERGIE | YES | YES |
| REACTIVE ENERGIE | NO | NO |
| DIRECT CONNECTION | YES | YES |
| CURRENT TRANSFORMER CONNECTION - CURRENT RATIO DETERMINED VIA: | APPLIC. PROGRAM FIXED BY ORDER | APPLIC. PROGRAM FIXED BY ORDER |
| LIST PRICE | 267,00 € | 187,00 € |

^(.) DOES NOT COMPLY DIN TYPE



CONVENTIONAL METERS (REQ. KNX INTERFACE) / THREE-PHASE / DIRECT CONNECTION

| | | | |
|--|---|-------|-------------|
| MANUFACTURER | ABB | | |
| IMAGE |  | | |
| WEB CODE | 9902 | | |
| MANUF REFERENCE | DDB13000 | | |
| DESCRIPTION | DIRECT CONNECTION - THREE - PHASE ACTIVE - AND REACTIVE ENERGYZÄHLER | | |
| DES. RANGE | DELTAPLUS DIREKTMESSENDE ZÄHLER | | |
| VOLTAGE V AC | 3 x 57/100 UP TO 3 x 288/500 | | |
| CURRENT A AC | 5 (80) | | |
| DIN U | 7 | | |
| OTHER FEATURES | | | |
| PHASES | 3 | | |
| TARIFFS | NO | | |
| PRECISION CLASS | 1 | | |
| QUADRANT (SUPPLY AND PURCHASE) | 1 | | |
| MID (MEASURING INSTRUMENT DIRECTIVE) | YES | | |
| BUS CONNECTION | + ZS/S 1.1 | | |
| ACTIVE ENERGIE | YES | | |
| REACTIVE ENERGIE | YES | | |
| DIRECT CONNECTION | YES | | |
| CURRENT TRANSFORMER CONNECTION - CURRENT RATIO DETERMINED VIA: | APPLIC. PROGRAM | FIXED | BY ORDER |
| LIST PRICE | 661,00 € | | |



CONVENTIONAL METERS (REQ. KNX INTERFACE) / THREE-PHASE / TRANSFORMER RATED

| | | |
|--|---|------------------------------|
| MANUFACTURER | ABB | |
| IMAGE |   | |
| WEB CODE | 9903 | 2120 |
| MANUF REFERENCE | DAB12000 | DAB13000 |
| DESCRIPTION | ACTIVE ENERGY- THREE-PHASE TRANSFORMER RATED COUNTER | |
| DES. RANGE | DELTAPLUS STANDARD-ZÄHLER | DELTAPLUS STANDARD-ZÄHLER |
| VOLTAGE V AC | 3 x 100 ... 500 | 3 x 57/100 UP TO 3 x 288/500 |
| CURRENT A AC | 1(6) | 1(6) |
| DIN U | 7 | 7 |
| OTHER FEATURES | | |
| PHASES | 3 | 3 |
| TARIFFS | NO | NO |
| PRECISION CLASS | 1 | 1 |
| QUADRANT (SUPPLY AND PURCHASE) | 1 | 1 |
| MID (MEASURING INSTRUMENT DIRECTIVE) | YES | YES |
| BUS CONNECTION | + ZS/S 1.1 | |
| ACTIVE ENERGIE | YES | YES |
| REACTIVE ENERGIE | NO | NO |
| DIRECT CONNECTION | YES | YES |
| CURRENT TRANSFORMER CONNECTION - CURRENT RATIO DETERMINED VIA: | APPLIC. PROGRAM YES | APPLIC. PROGRAM YES |
| LIST PRICE | 414,00 € | |



CONVENTIONAL METERS (REQ. KNX INTERFACE) / THREE-PHASE / TRANSFORMER RATED

| MANUFACTURER | ABB | ABB |
|--|--|---|
| IMAGE | | |
| WEB CODE | 9904 | 9905 |
| MANUF REFERENCE | DAB13002 | DAB13004 |
| DESCRIPTION | MULTI-TARIFF COUNTER - 4 TARIFF, ACTIVE ENERGY- THREE-PHASE TRANSFORMER RATED COUNTER (CONTROL OF THE 4 TARIFFS VIA 230 V INPUT) | MULTI-TARIFF COUNTER - 4 TARIFF, ACTIVE ENERGY- THREE-PHASE TRANSFORMER RATED COUNTER (CONTROL OF THE 4 TARIFFS VIA COMUNICATION) |
| DES. RANGE | DELTAPLUS STANDARD-ZÄHLER | DELTAPLUS STANDARD-ZÄHLER |
| VOLTAGE V AC | 3 x 57/100 UP TO 3 x 288/500 | 3 x 57/100 UP TO 3 x 288/500 |
| CURRENT A AC | 1(6) | 1(6) |
| DIN U | 7 | 7 |
| OTHER FEATURES | | |
| PHASES | 3 | 3 |
| TARIFFS | 4 | 4 |
| PRECISION CLASS | 1 | 1 |
| QUADRANT (SUPPLY AND PURCHASE) | 1 | 1 |
| MID (MEASURING INSTRUMENT DIRECTIVE) | YES | YES |
| BUS CONNECTION | + ZS/S 1.1 | + ZS/S 1.1 |
| ACTIVE ENERGIE | YES | YES |
| REACTIVE ENERGIE | NO | NO |
| DIRECT CONNECTION | NO | NO |
| CURRENT TRANSFORMER CONNECTION - CURRENT RATIO DETERMINED VIA: | APPLIC. PROGRAM YES | APPLIC. PROGRAM YES |
| LIST PRICE | 493,00 € | 493,00 € |



CONVENTIONAL METERS (REQ. KNX INTERFACE) / THREE-PHASE / TRANSFORMER RATED

| | | |
|--|---|---|
| MANUFACTURER | ABB | ABB |
| IMAGE |  |  |
| WEB CODE | 9916 | 9906 |
| MANUF REFERENCE | OD 4110 | DCB12000 |
| DESCRIPTION | ACTIVE ENERGY- THREE-PHASE TRANSFORMER RATED COUNTER 4-LEITER | ACTIVE AND REACTIVE ENERGY THREE-PHASE TRANSFORMER RATED COUNTER |
| DES. RANGE | ODIN-METER(1) | DELТАPLUS STANDARD-ZÄHLER |
| VOLTAGE V AC | 3 x 230/400 | 3 x 100 ... 500 |
| CURRENT A AC | 5 | 1(6) |
| DIN U | 6 | 7 |
| OTHER FEATURES | | |
| PHASES | 3 | 3 |
| TARIFFS | NO | NO |
| PRECISION CLASS | 2 | 1 |
| QUADRANT (SUPPLY AND PURCHASE) | 1 | 1 |
| MID (MEASURING INSTRUMENT DIRECTIVE) | YES | YES |
| BUS CONNECTION | + ZS/S 1.1 | + ZS/S 1.1 |
| ACTIVE ENERGIE | YES | YES |
| REACTIVE ENERGIE | NO | YES |
| DIRECT CONNECTION | NO | NO |
| CURRENT TRANSFORMER CONNECTION - CURRENT RATIO DETERMINED VIA: | APPLIC. PROGRAM YES | APPLIC. PROGRAM YES |
| LIST PRICE | 253,00 € | 738,00 € |



CONVENTIONAL METERS (REQ. KNX INTERFACE) / THREE-PHASE / TRANSFORMER RATED

| | | | |
|--|---|-------|-------------|
| MANUFACTURER | ABB | | |
| IMAGE |  | | |
| WEB CODE | 2121 | | |
| MANUF REFERENCE | DCB13000 | | |
| DESCRIPTION | ACTIVE AND REACTIVE ENERGY THREE-PHASE TRANSFORMER RATED COUNTER | | |
| DES. RANGE | DELTAPLUS STANDARD-ZÄHLER | | |
| VOLTAGE V AC | 3 x 57/100 UP TO 3 x 288/500 | | |
| CURRENT A AC | 1(6) | | |
| DIN U | 7 | | |
| OTHER FEATURES | | | |
| PHASES | 3 | | |
| TARIFFS | NO | | |
| PRECISION CLASS | 1 | | |
| QUADRANT (SUPPLY AND PURCHASE) | 1 | | |
| MID (MEASURING INSTRUMENT DIRECTIVE) | YES | | |
| BUS CONNECTION | + ZS/S 1.1 | | |
| ACTIVE ENERGIE | YES | | |
| REACTIVE ENERGIE | YES | | |
| DIRECT CONNECTION | NO | | |
| CURRENT TRANSFORMER CONNECTION - CURRENT RATIO DETERMINED VIA: | APPLIC. PROGRAM YES | FIXED | BY ORDER |
| LIST PRICE | 661,00 € | | |



KNX DEVICES / KNX ACTUATORS

| | | | |
|--|---|-------|-------------|
| MANUFACTURER | ABB | | |
| IMAGE |  | | |
| WEB CODE | 9893 | | |
| MANUF REFERENCE | SE/S 3.16.1 | | |
| DESCRIPTION | ENERGY ACTUATOR | | |
| DES. RANGE | ABB I-BUS KNX | | |
| VOLTAGE V AC | 95...265 | | |
| CURRENT A AC | 0,025...20 | | |
| DIN U | 4 | | |
| OTHER FEATURES | 3 SCHALTAUSGÄNGE 20A C LAST 3 ZÄHLER + GESAMT | | |
| PHASES | 3 X 1 | | |
| TARIFFS | NO | | |
| PRECISION CLASS | "(500mA... 5A) ± 3 % (5...20 A) ± 2 %" | | |
| QUADRANT (SUPPLY AND PURCHASE) | 1 | | |
| MID (MEASURING INSTRUMENT DIRECTIVE) | NO | | |
| BUS CONNECTION | KNX | | |
| ACTIVE ENERGIE | YES | | |
| REACTIVE ENERGIE | YES | | |
| DIRECT CONNECTION | YES | | |
| CURRENT TRANSFORMER CONNECTION - CURRENT RATIO DETERMINED VIA: | APPLIC. PROGRAM | FIXED | BY ORDER |
| LIST PRICE | 402,90 € | | |



KNX DEVICES / INTERFACES FOR METERS

| MANUFACTURER | ABB | | |
|--|---|-------|-------------|
| IMAGE | A blue rectangular electronic module with a red label in the center. The label includes text like 'ZS/S 1.1', '400V 100A', and 'ABB I-BUS KNX'. | | |
| WEB CODE | 6166 | | |
| MANUF. REFERENCE | ZS/S 1.1 | | |
| DESCRIPTION | KNX METER INTERFACE MODULE, REG FOR ABB ENERGY METERS TYPES DELTAPLUS, DELTASINGLE, ODIN OR ODINSINGLE | | |
| DES. RANGE | ABB I-BUS KNX | | |
| VOLTAGE V AC | KNX | | |
| CURRENT A AC | KNX | | |
| DIN U | 2 | | |
| OTHER FEATURES | INFRAROTSCHNITTSTELLE | | |
| PHASES | NO | | |
| TARIFFS | NO | | |
| PRECISION CLASS | NO | | |
| QUADRANT (SUPPLY AND PURCHASE) | NO | | |
| MID (MEASURING INSTRUMENT DIRECTIVE) | NO | | |
| BUS CONNECTION | KNX | | |
| ACTIVE ENERGIE | NO | | |
| REACTIVE ENERGIE | NO | | |
| DIRECT CONNECTION | NO | | |
| CURRENT TRANSFORMER CONNECTION - CURRENT RATIO DETERMINED VIA: | APPLIC. PROGRAM | FIXED | BY ORDER |
| LIST PRICE | 187,00 € | | |



COMPARATIVE TABLE POWER SUPPLIES



The power supply of a KNX system is one of the most important components and it is a mistake to think they are all the same.

In the following pages you can find a Comparative Table of most KNX power supplies in the market, divided by:

- ⊕ 160mA
- ⊕ 320mA
- ⊕ 640mA

As you will see, KNX power supplies often have additional features to perform very useful functions, such as:

- ⊕ **AUXILIARY VOLTAGE:** it can be used for devices that can not be supplied exclusively from the Bus voltage.
- ⊕ **UNINTERRUPTIBLE POWER SUPPLY:** in order to avoid Bus voltage failure with a Mains failure via the 12V battery it must be connected to.
- ⊕ **DIAGNOSIS INFORMATION:** it can be very practical to have all the information related to the cause of a problem in the Bus stored and sent by the PSU.
- ⊕ **KNX NET/IP ROUTER:** more and more frequently the KNX topology with normal TP Line and Area couplers is substituted by the new topology using KNX Net/IP Routers. The PSU with integrated router make this new topology very easy to install.

INDEX



COMPARATIVE TABLE POWER SUPPLIES

160mA 320mA 640mA

176

177

178

| <input type="checkbox"/> | POWER SUPPLIES <input type="checkbox"/> | | | | | | |
|--------------------------|---|------------------|------|----------------------|----------------------|------------|-------|
| WEB CODE | MANUFACTURER | MANUF. REFERENCE | SIZE | AUXI. ⁽¹⁾ | UNIN. ⁽²⁾ | LIST PRICE | IMAGE |

160mA

| | | | | | | | |
|-------|---------|----------------|----|----|-----|----------|---|
| 10149 | MDT | STV-0160.01 | 4U | NO | NO | 134,00 € |  |
| 10130 | L&J | 88407 | 4U | NO | NO | 170,00 € |  |
| 9517 | WIELAND | 80.020.1413.0 | 4U | NO | NO | 161,71 € |  |
| 4190 | SIEMENS | 5WG1 125-1AB01 | 4U | NO | NO | 173,00 € |  |
| 7693 | ABB | SV/S 30.160.5 | 4U | NO | NO | 175,00 € |  |
| 9220 | MERTEN | 684016 | 4U | NO | NO | 175,50 € |  |
| 9225 | MERTEN | 683816 | 4U | NO | YES | 190,50 € |  |

| WEB CODE | MANUFACTURER | MANUF. REFERENCE | SIZE | AUXI. ⁽¹⁾ | UNIN. ⁽²⁾ | LIST PRICE | IMAGE |
|--------------|---------------|------------------|------|----------------------|----------------------|------------|---|
| 320mA | | | | | | | |
| 9753 | MDT | STV-0320.01 | 4U | NO | NO | 184,00 € |  |
| 10131 | L&J | 88406 | 4U | NO | NO | 185,00 € |  |
| 9795 | CONTROLTRONIC | PS.30.320.1 | 4U | YES | NO | 179,00 € |  |
| 1252 | GIRA | 1086 00 | 4U | YES | NO | 242,10 € |  |
| 28 | BERKER | 7501 00 09 | 4U | YES | NO | 242,25 € |  |
| 2773 | JUNG | 2005 REG | 4U | YES | NO | 242,05 € |  |
| 9518 | WIELAND | 83.020.1414.0 | 4U | NO | NO | 241,02 € |  |
| 4191 | SIEMENS | 5WG1 125-1AB11 | 4U | NO | NO | 259,00 € |  |
| 1 | ABB | SV/S 30.320.5 | 4U | NO | NO | 254,00 € |  |
| 722 | BUSCH-JAEGER | 6180/10 | 4U | NO | NO | 254,00 € |  |
| 9221 | MERTEN | 684032 | 4U | NO | NO | 249,00 € |  |
| 9374 | HAGER | TXA111 | 4U | NO | NO | 263,40 € |  |
| 9226 | MERTEN | 683832 | 4U | NO | YES | 267,00 € |  |

| POWER SUPPLIES | | | | | | | | | |
|----------------|---------------|------------------|------|----------------------|----------------------|----------------------|----------|------------|---|
| WEB CODE | MANUFACTURER | MANUF. REFERENCE | SIZE | AUXI. ⁽¹⁾ | UNIN. ⁽²⁾ | INFO. ⁽³⁾ | IPROUTER | LIST PRICE | IMAGE |
| 640mA | | | | | | | | | |
| 10132 | L&J | 88405 | 4U | YES | NO | NO | NO | 205,00 € |  |
| 9754 | MDT | STV-0640.01 | 6U | YES | NO | NO | NO | 249,00 € |  |
| 9796 | CONTROLTRONIC | PS.30.640.1 | 6U | YES | NO | NO | NO | 209,00 € |  |
| 9375 | HAGER | TXA112 | 4U | NO | NO | NO | NO | 326,90 € |  |
| 9519 | WIELAND | 83.020.1415.0 | 4U | YES | NO | NO | NO | 333,72 € |  |
| 9222 | MERTEN | 684064 | 4U | NO | NO | NO | NO | 345,00 € |  |
| 4192 | SIEMENS | 5WG1 125-1AB21 | 4U | YES | NO | NO | NO | 358,00 € |  |
| 1965 | ABB | SV/S 30.640.5 | 6U | YES | NO | NO | NO | 359,00 € |  |
| 29 | BERKER | 7501 00 10 | 7U | YES | NO | NO | NO | 359,25 € |  |
| 725 | BUSCH-JAEGER | 6180-102 | 6U | YES | NO | NO | NO | 359,00 € |  |
| 2772 | JUNG | 2002 REG | 7U | YES | NO | NO | NO | 359,04 € |  |
| 6331 | ELSNER | 70140 | 7U | YES | NO | NO | NO | 348,00 € |  |
| 9227 | MERTEN | 683890 | 4U | NO | YES | NO | NO | 363,00 € |  |
| 1253 | GIRA | 1087 00 | 7U | YES | NO | NO | NO | 370,10 € |  |
| 2235 | THEBEN | 907 0 364 | 6U | YES | NO | NO | NO | 352,00 € |  |

| POWER SUPPLIES | | | | | | | | | |
|----------------|--------------|------------------|------|----------------------|----------------------|----------------------|----------|------------|---|
| WEB CODE | MANUFACTURER | MANUF. REFERENCE | SIZE | AUXI. ⁽¹⁾ | UNIN. ⁽²⁾ | INFO. ⁽³⁾ | IPROUTER | LIST PRICE | IMAGE |
| 640mA | | | | | | | | | |
| 8908 | BERKER | 7501 00 15 | 8U | NO | YES | NO | NO | 442,78 € |  |
| 1250 | GIRA | 1079 00 | 8U | NO | YES | NO | NO | 442,80 € |  |
| 8136 | ELSNER | 70141 | 7U | YES | NO | YES | NO | 428,00 € |  |
| 1966 | ABB | SU/S 30.640.1 | 8U | NO | YES | NO | NO | 444,00 € |  |
| 723 | BUSCH-JAEGER | 6180/11 | 8U | NO | YES | NO | NO | 444,00 € |  |
| 2505 | JUNG | USV 640 MA | 8U | NO | YES | NO | NO | 442,8 € |  |
| 9360 | ELSNER | 70142 | 7U | YES | NO | YES | YES | 630,00 € |  |

AUXI.⁽¹⁾: AUXILIARY VOLTAGEUNIN.⁽²⁾: UNINTERRUPTIBLE POWER SUPPLY (FOR BATTERY CONNECTION)INFO.⁽³⁾: IT SENDS DIAGNOSIS INFORMATION TO THE BUS

DIAGRAMS & SOLUTIONS



Complete support to all KNX professionals is what makes us unique



SWITCHING ACTUATORS

-

COMPARATIVE DIAGRAMS

10001010111010101110 /10000101*//1011011/1010101
1000001000 / 10000111**** 1111// 1000010101011100/
//101011000101 //enter//100000100101101***

INDEX



SWITCHING ACTUATORS

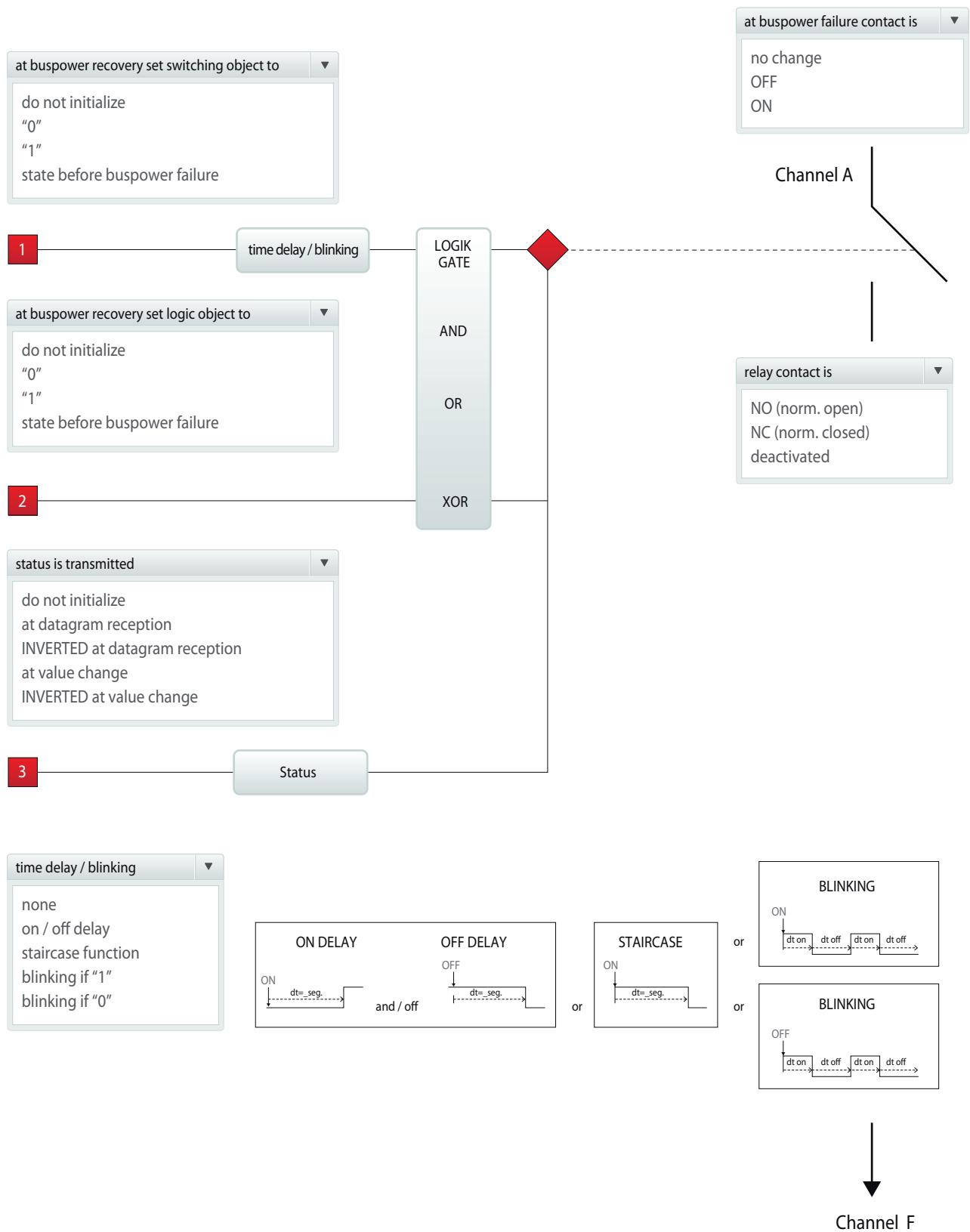
COMPARATIVE DIAGRAMS

LINGG & JANKE

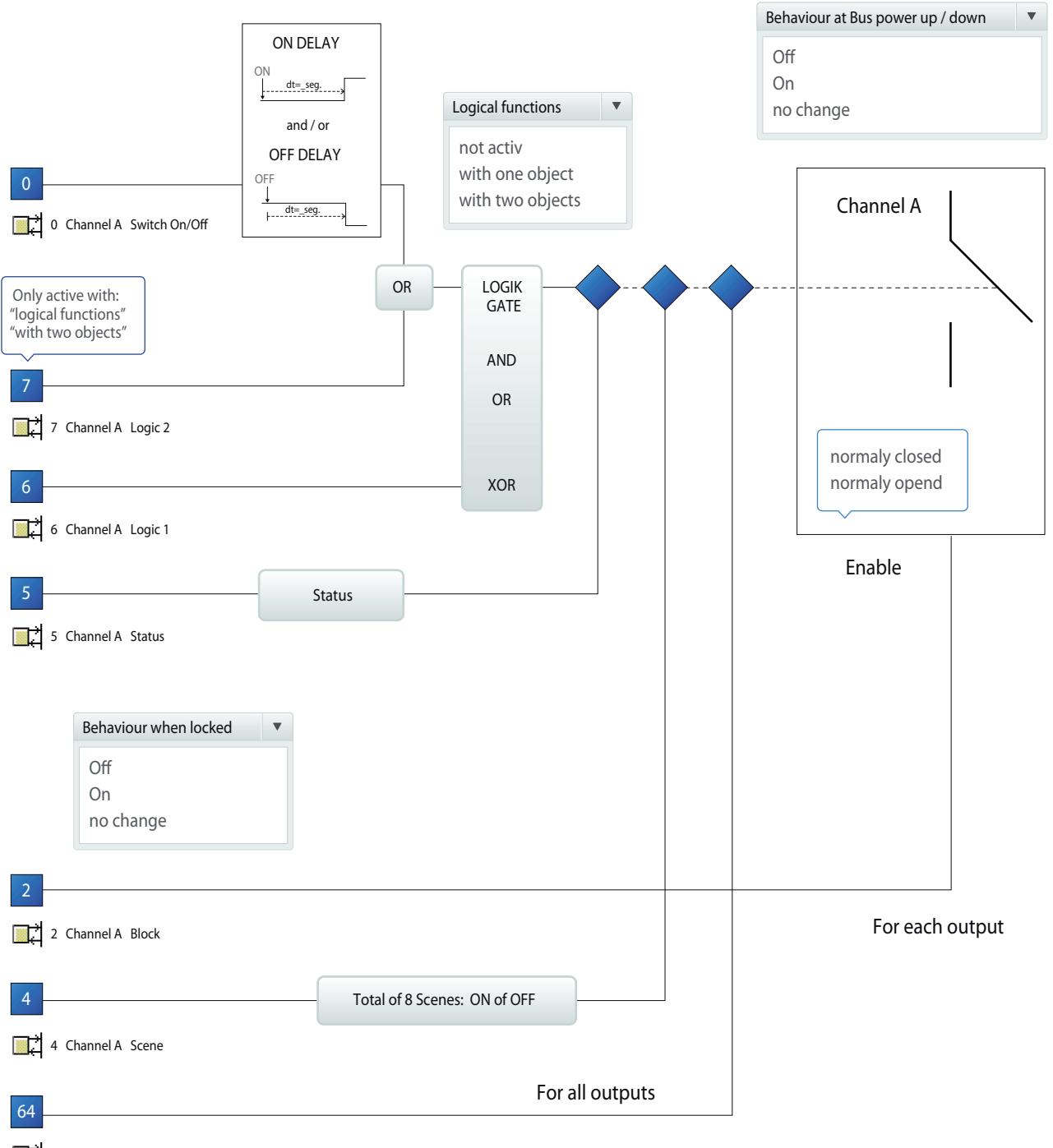
MDT

JUNG

1. Actuator-channel Switching Diagram: Lingg & Janke

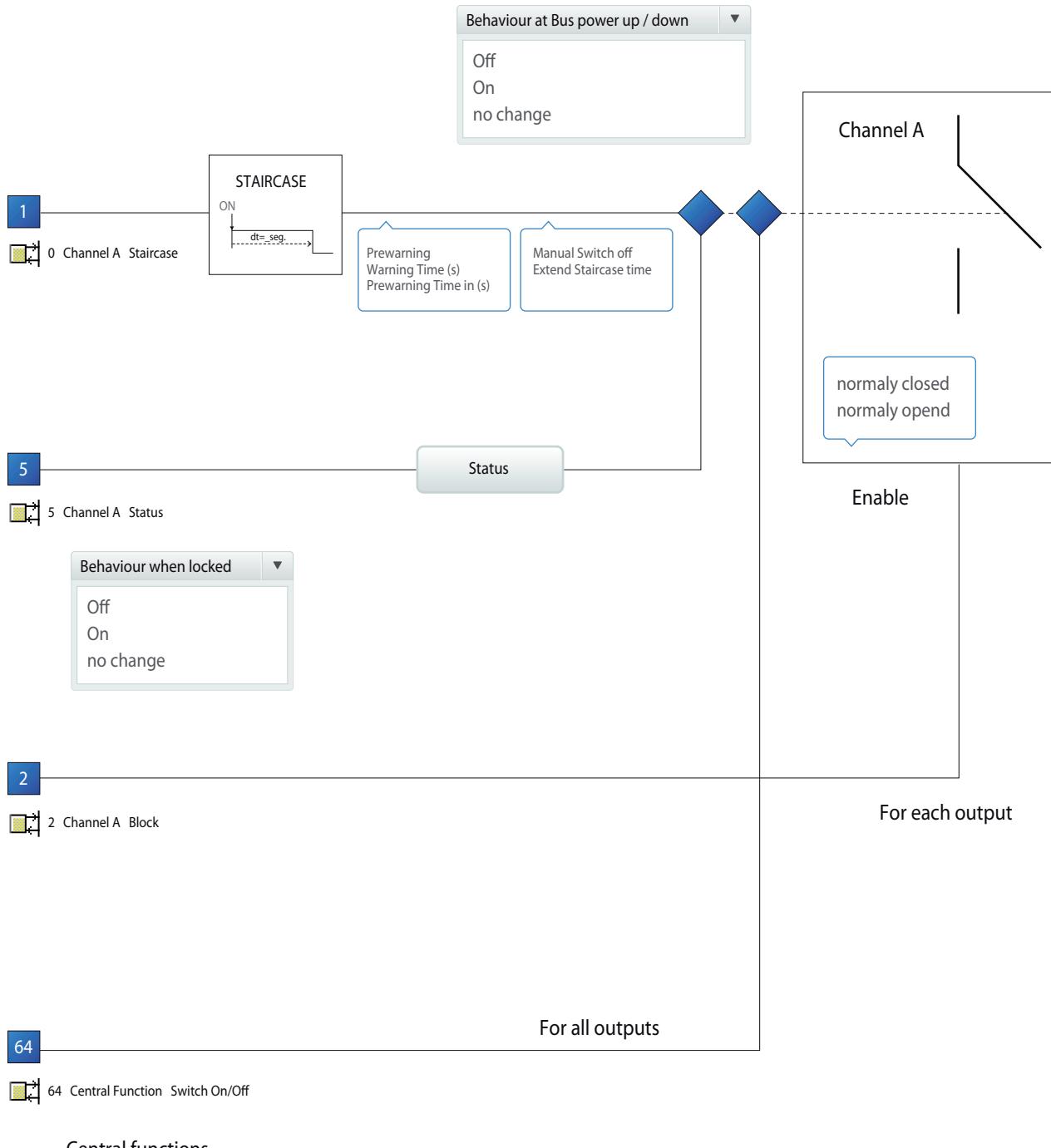


2. Actuator-channel Switching Diagram: MDT (Op. I: no Staircase)



Central functions

2. Actuator-channel Switching Diagram: MDT (Op. II: Staircase)



3. Actuator-channel Switching Diagram: Jung (Op. I: Staircase)

Behaviour after ETS programming

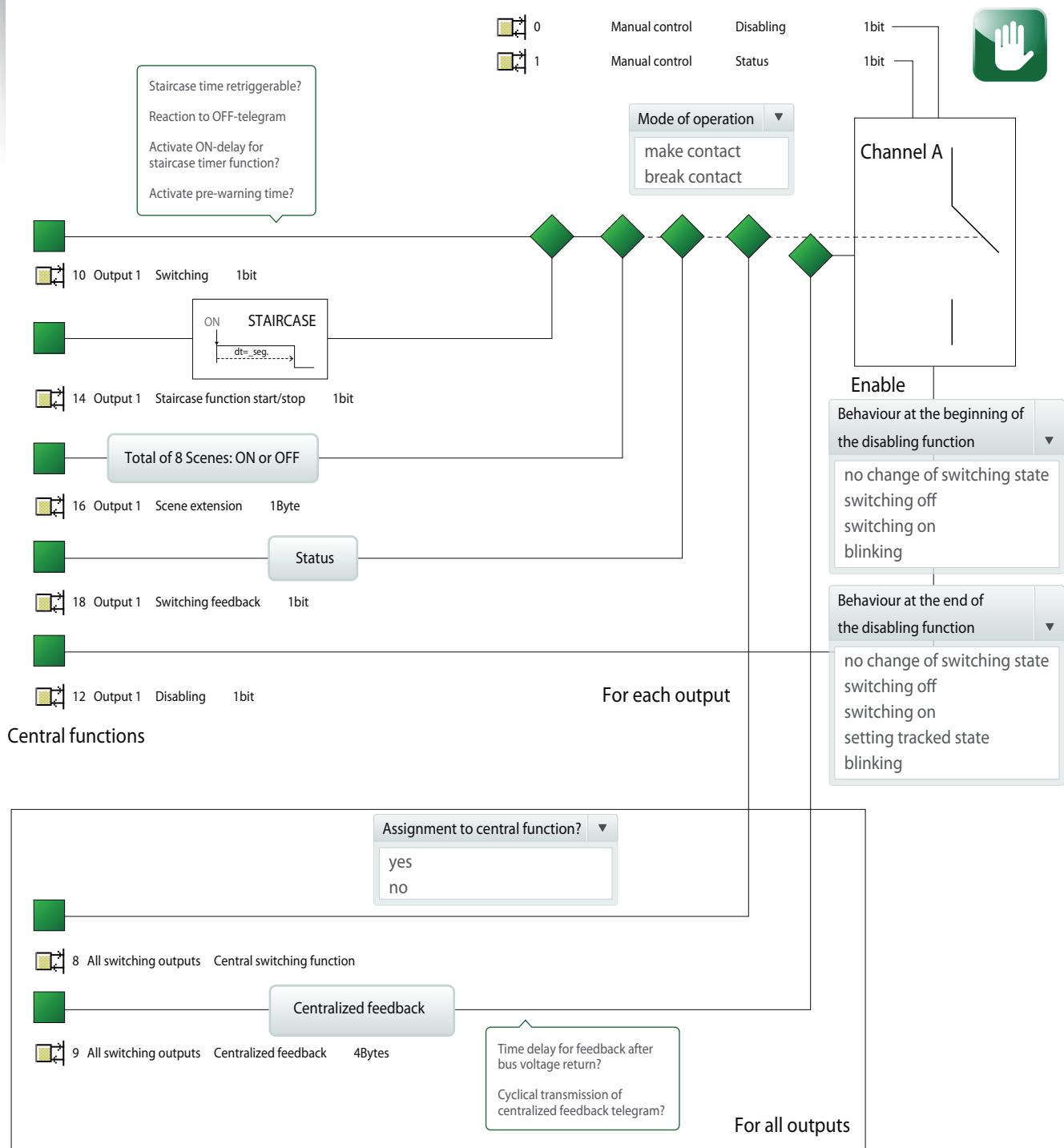
- close contact
- open contact
- no reaction

Behaviour in case of bus voltage failure

- close contact
- open contact
- no reaction

Behaviour after bus or mains voltage return

- close contact
- open contact
- state as before bus / mains voltage failure
- activate staircase function (if parameterized)





3. Actuator-channel Switching Diagram: Jung (Op. II: no Staircase)

Behaviour after ETS programming

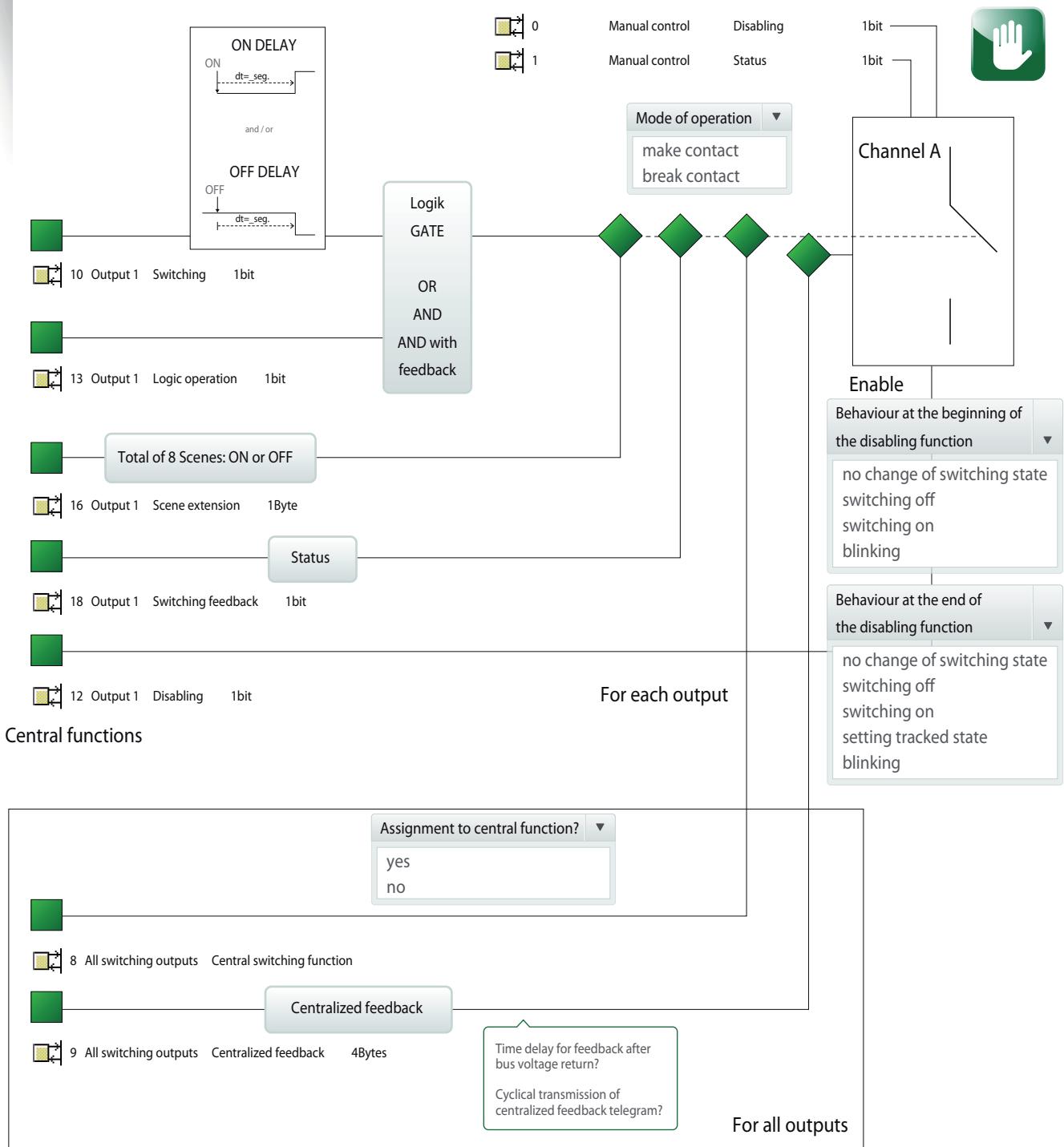
- close contact
- open contact
- no reaction

Behaviour in case of bus voltage failure

- close contact
- open contact
- no reaction

Behaviour after bus or mains voltage return

- close contact
- open contact
- state as before bus / mains voltage failure
- activate staircase function (if parameterized)





CONSTANT LIGHTING REGULATION

10001010111010101110 / 10000101*//1011011/1010101
1000001000 / 10000111**** 1111// 1000010101011100/
//101011000101 //enter//100000100101101***



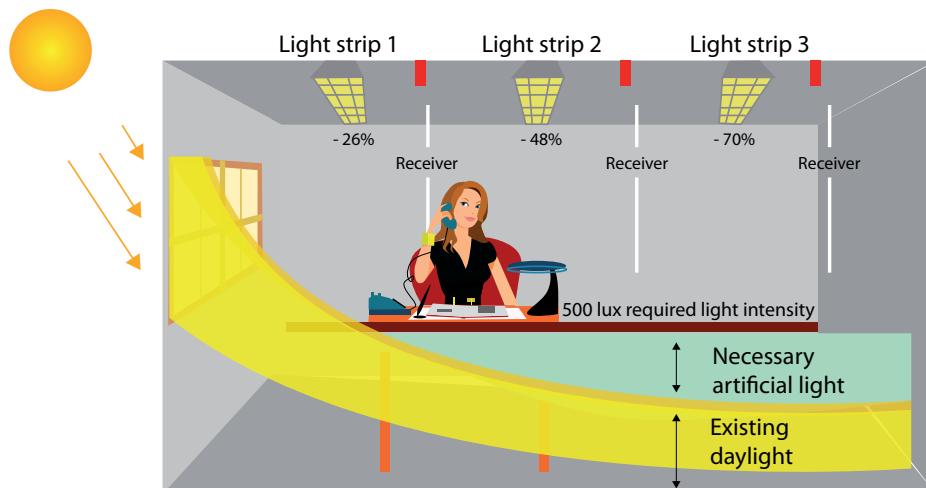
Constant Lighting Regulation (CLR)



In an advanced KNX System you do not only switch and dim lights manually, but also **continuously and progressively adjust the required level of brightness in the room** (or at the desk, for instance) **depending on the external light**. This is what we call Constant Lighting Regulation and you can achieve maximum comfort and save energy.

Learn here how to select and configure the right KNX components.

There are a couple of important things one should take into account when realizing a constant lighting regulation.



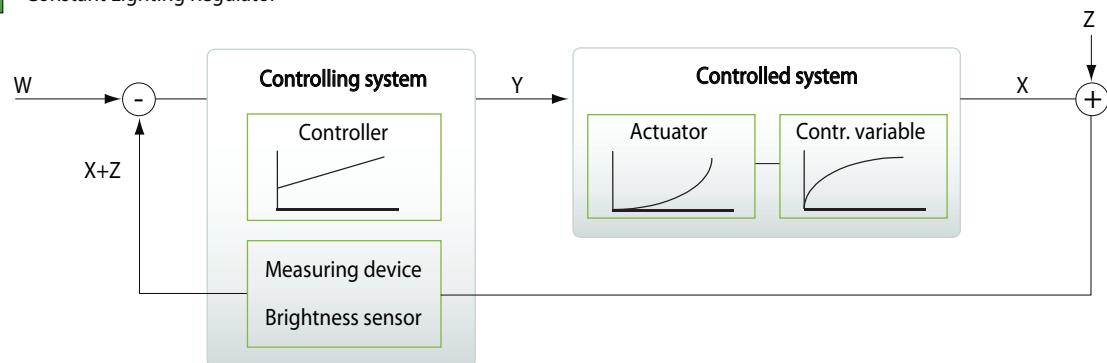
Notes about saving energy with CLR:

- **Lighting:** only the necessary amount of lighting used. Remember that KNX dimming actuators do save energy (opposite to conventional ones).
- **Cooling:** by reducing the artificial brightness, less heat is generated and thus less cooling energy is needed (1 kW lighting energy needs 3 kW of cooling energy to compensate the heat generated by the lights !!!)

Constant Lighting Regulation (CLR)

1 Components

- a. KNX dimming actuator – All (no special features needed).
- b. KNX pushbuttons – All (recommended with display).
- c. Constant Lighting Regulator



W ... Reference variable (e.g. brightness, setpoint)
Y ... Control value (dimming value 1-100%)

Z ... Interference (level of external light)
X ... Actual value (lux value at workstation)

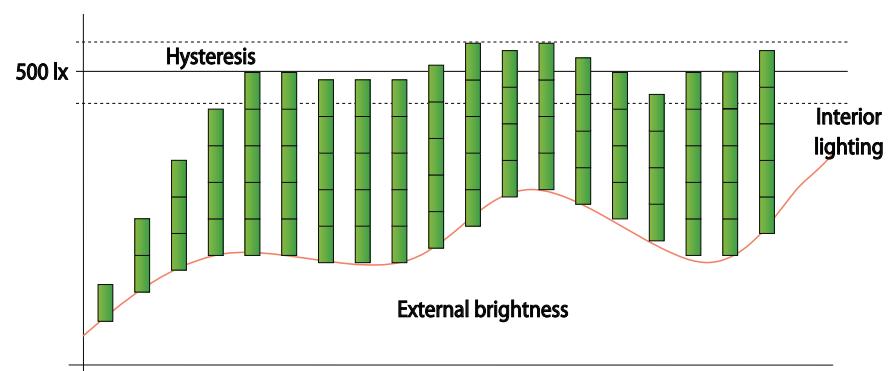
c.i. 2 Main types:

Closed loop regulation

Sends an continuous absolute value - 8bits - (I-Regulation Algorithm) to the bus depending on the difference between actual and set point value.

Integral reset

Increments or decrements with always the same step size (4bits – relative dimming or 8bits – absolute dim value) until it reaches the configured hysteresis zone (symmetrically around the set point) Attention! The hysteresis zone has to be bigger than the step size, otherwise it will oscillate.

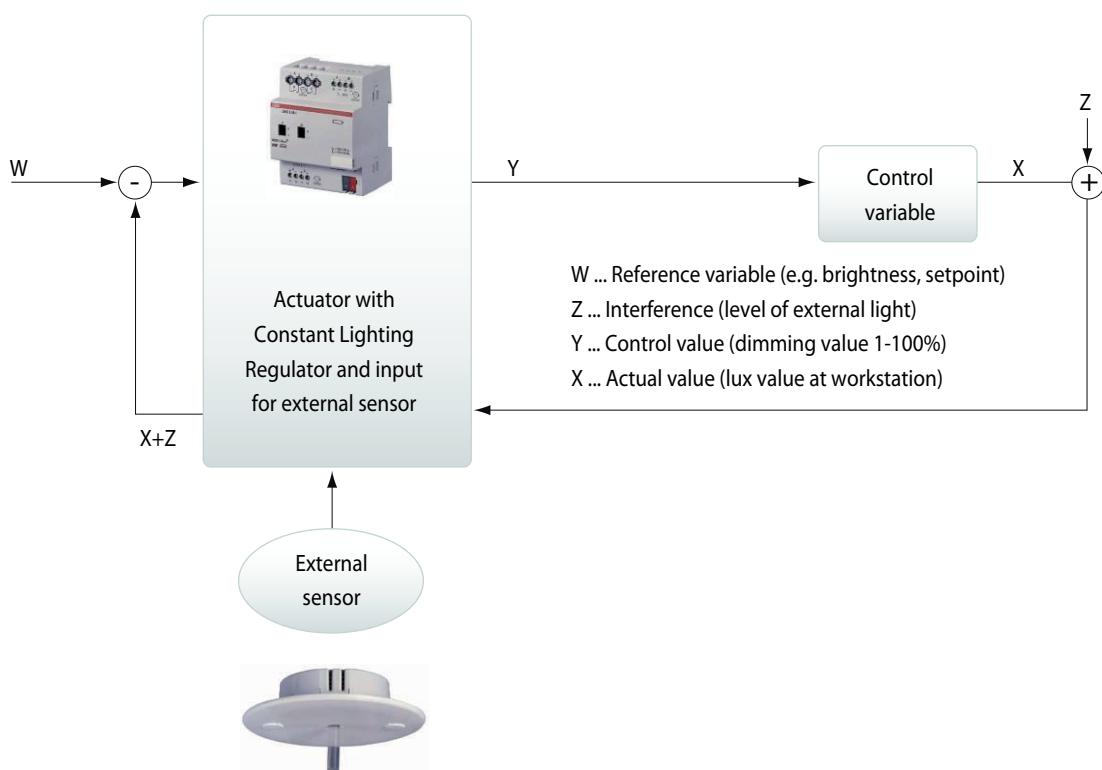
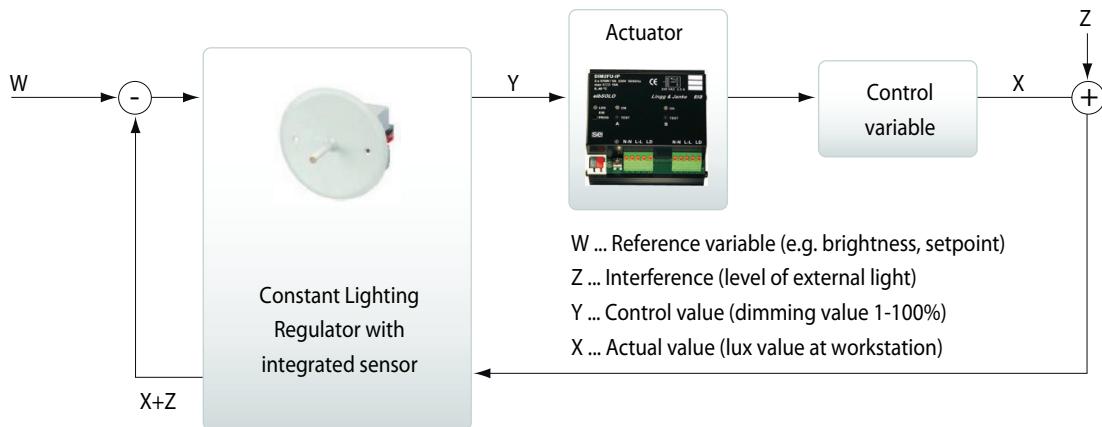


c.ii. The brightness sensors that are used for CLR should have a measured-value resolution not more than 15% of the set point value. Ex. set point = 600 lux; tolerance < 90 lux.

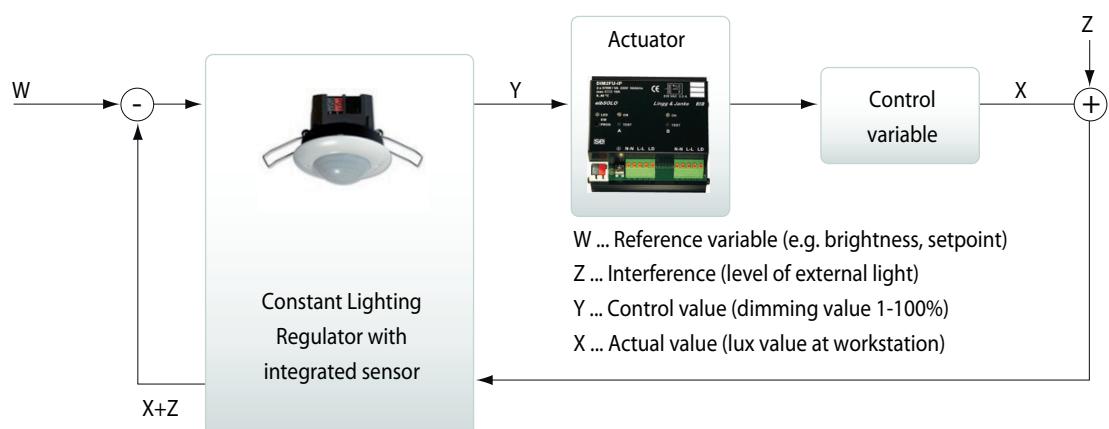
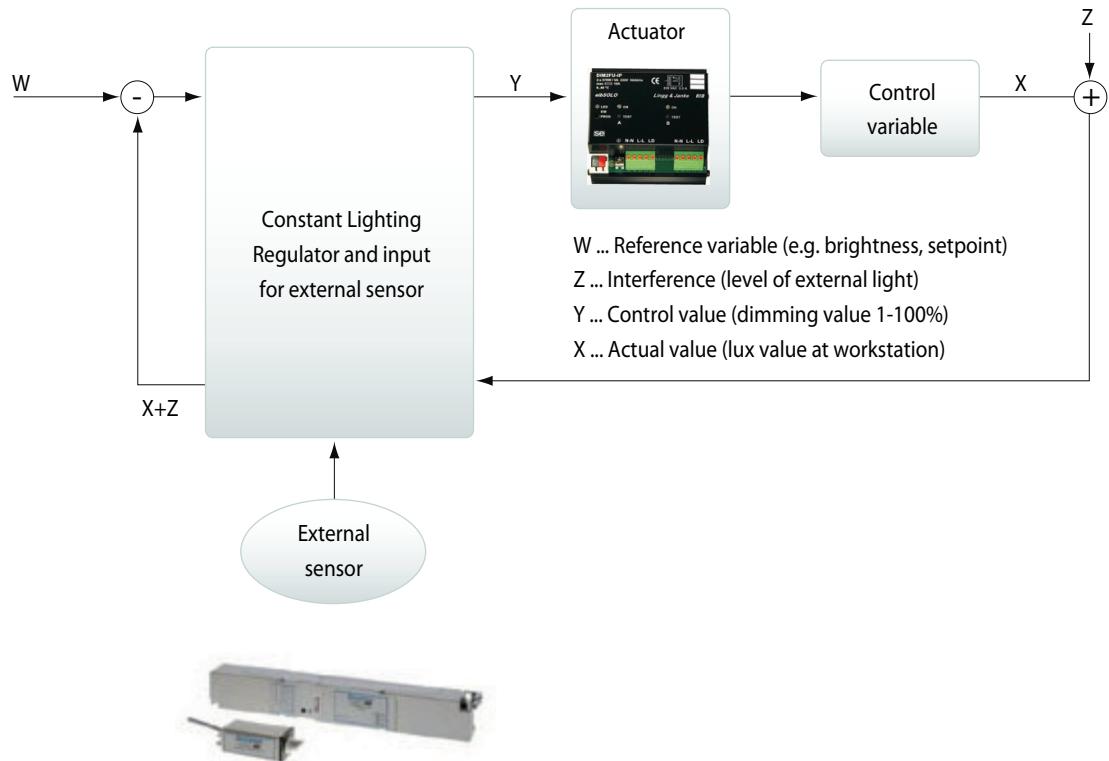
Constant Lighting Regulation (CLR)



2 Different component topologies



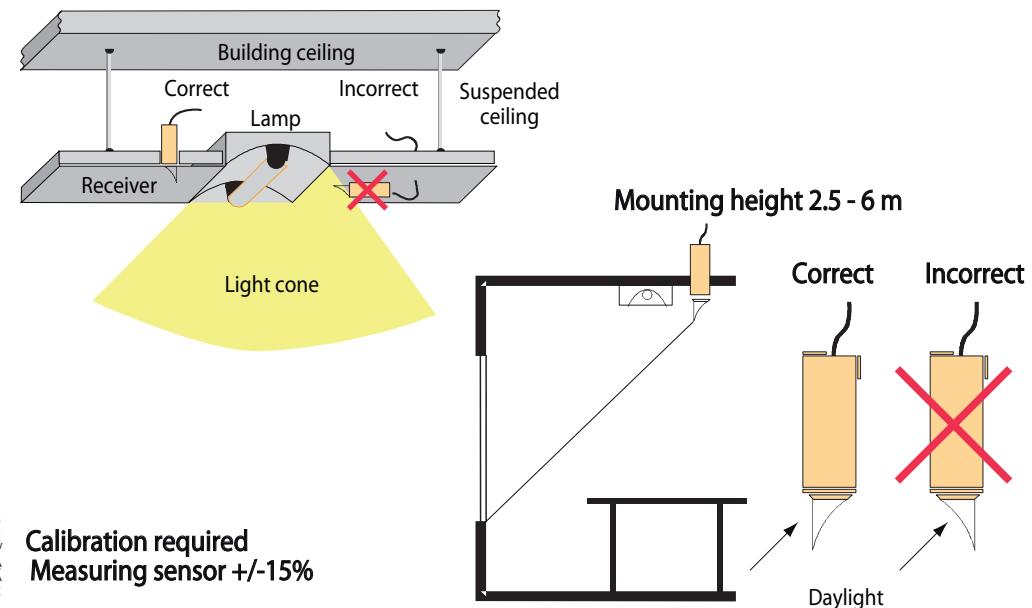
Constant Lighting Regulation (CLR)



Constant Lighting Regulation (CLR)



3 Installation / location



a. Preferable above the area to be regulated. (only if no interference with lights). When using components with light reflecting glass bars, the bar with the perpendicular lens should be used.

b. If not installed above the area, the bar with the inclined lens should be used.

Orientation of the inclined lens

1 Pointing to the area to be regulated.

2 Never pointing directly to the window.

3 No direct reflections (lights, sunlight, mirrors, ...).

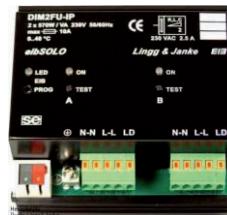


Constant Lighting Regulation (CLR)

4 ETS configuration

Dimming Actuator

- 2/2/1 1 Switch
- 2/2/9 OR 2/2/9
- 2/2/2 4 Dimming
- 2/2/3 8 Value
- 2/2/8 8 Status Value



Push buttons / Visualization

- Dimm Alternate 1 Manual Switch 2/2/1
- 4 Manual dim 2/2/2

- Send value 8 Manual value 2/2/3

Contant lighting regulator (CLR)

- Alternate 1 Activate Contant Lighting Regulation (CLR) 2/2/4

- 2/2/1 1 Manual switch

- ON 1 Calibrate 2/2/5

- 2/2/2 4 Manual dim

- Send value 16 Setpoint (LUX) 2/2/6

- 2/2/3 8 Manual value

- Send value 8 Setpoint (LUX) 2/2/7

- 2/2/9 8 CLR Contant Lighting Regulation

- OR 16 Setpoint (LUX) 2/2/6

- 2/2/9 4 CLR Contant Lighting Regulation

- 2/2/8 8 Status actuator CLR Contant Lighting Regulation

- Send value 16 Actual value (LUX) 2/2/6

- 2/2/4 1 Activate Contant Lighting Regulation (CLR)

- Display 16 Actual value (LUX) 2/2/6

- 2/2/5 1 Calibrate

- 2/2/6 16 Setpoint (LUX)

- 2/2/7 8 Setpoint (LUX)

- 2/2/6 16 Actual value (LUX)



Constant Lighting Regulation (CLR)



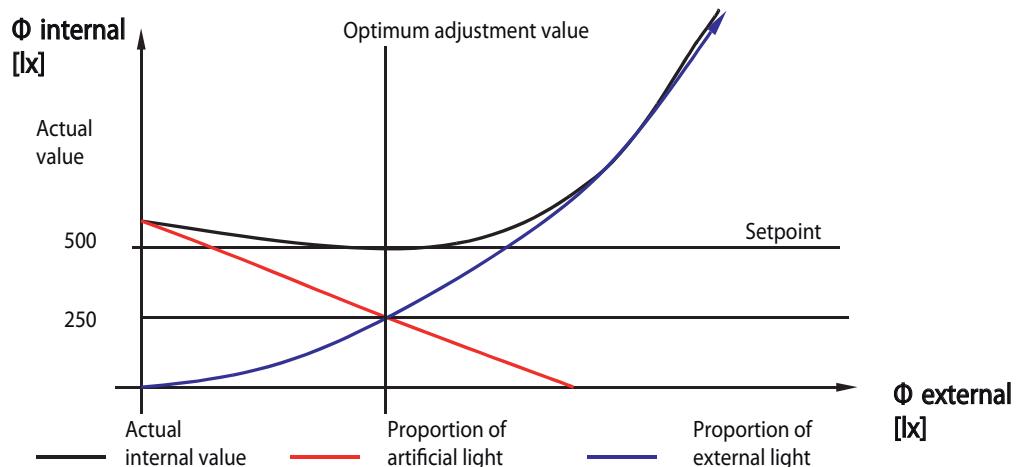
5 Calibration procedure

a. When?

1 Project evolution

Only after everything is finished. Walls painted, carpets installed, floor decking done, furniture installed ...

2 Time of day



When the natural light (sunlight) and artificial light (lighting) stand in a relation 50%/50%.

b. How? Depending on component selection some examples

1 Over 1 bit calibration object

- Regulate to desired lux value (using lux meter situated on the area to be regulated).
- Send a "1" to the 1 bit calibration object.
- Done!

2 Parameter calibration

- Regulate to desired lux value (using lux meter situated on the area to be regulated).
- Read calibration object of the CLR using ETS.
- Fill the received value in the calibration parameter setting.

Constant Lighting Regulation (CLR)



6 When it is not recommended to realize a CLR?

- a. The window too small



- b. The artificial lights too faint (cannot reach the set point value when there is no, or little natural light).

