2016

elsner®
elektronik

KNX RADIO

Retrofitting, extension or refurbishment of listed historic buildings – all of this is way more easy with KNX RF radio technology. The KNX installation via a twisted pair line is perfectly complemented with the radio standard. Radio actuators and radio bush buttons are integrated into the system via line couplers and thus become fully-fledged bus participants.

All KNX RF components of Elsner Elektronik use the standard KNX RF S. The configuration is made by means of the ETS as usual.

KNX RF LINE COUPLER

KNX RF LC-TP

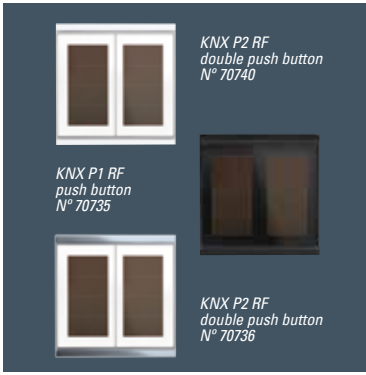
- Connects wireless KNX devices (KNX RF) with wired devices (KNX TP)
- Bidirectional communication
- Display shows addressing, KNX traffic (bus load for RF and TP), incoming/outgoing telegrams (for RF and TP, with source and destination address), reset
- For wall mounting in a socket
- Housing plastic white (glossy)
- Completion with frame of the switching series used in the building (not included)
- Dimensions of housing approx. 55 x 55 (W x H, mm), mounting depth 15 mm
- Operating voltage: bus voltage

KNX RF LC-TP
N° 70701

KNX RF PUSH BUTTONS

Solar-powered Radio Buttons Corlo KNX P RF

- Available as single push button Corlo KNX P1 RF and as double push button Corlo KNX P2 RF
- Energy supply through integrated solar panels
- Additional emergency power supply through 3 V batterie (Typ CR2032)
- Glas white or black, matt/glossy chromed edge or white/black coated (custom colours on request)
- Approx. 80 × 71 × 12,5 (W × H × D, mm)
- Mounting with Frame Corlo in socket or Frame Corlo Plane without socket
- Frame available as 1-gang, 2-gang und 3-gang version (not included)



KNX P2 RF
double push button
N° 70740

KNX P1 RF
push button
N° 70735

KNX P2 RF
double push button
N° 70736

KNX RF ACTUATORS

KNX Radio Motor Control Unit KNX RF-MSG-ST

- For 1 drive 230 V AC / 4 A max. (grouping possible)
- Adjustable motor run time via ETS parameters or via active current measurement
- 16 channel scene control
- Housing with STAS3 plug/STAK3 coupling
- Approx. 149 x 36 x 25 (W x H x D, mm)

KNX RF-MSG-ST
N° 70711

CALA KNX – SENSOR WITH DISPLAY

The Cala KNX indoor sensors do not only monitor the room climate, they also display current measured values. Target values for the integrated room controller can be changed with a fingertip. Cala KNX is available in different, frequently used sensor combinations. In addition to calculation of mixed values and switching outputs, the software also offers logic gates, actuating variable comparators and multifunctional modules. In these modules, input data can be changed by calculations, survey of a condition or transition of the data point type.

Cala KNX T
N° 70601

Temperature Sensor Cala KNX T

- Temperature sensor with calculation of a mixed value
- PI controller for heating/cooling (temperature)
- Summer compensation
- Switching outputs with limit values
- 4 inputs (binary inputs or for temperature sensor T-NTC, N° 30516)
- 8 modules for calculation, conditions, transition
- 4 actuating variable comparators
- 8 AND and 8 OR logic gates (4 inputs each)
- For wall mounting in a socket
- Dimensions of housing approx. 55 x 55 (W x H, mm), completion with standard 55 mm frame (not included)
- Operating voltage: bus voltage

Temperature/Humidity Sensor Cala KNX TH

- Temperature sensor and humidity sensor with calculation of mixed values, of the dewpoint and monitoring of the comfort field (DIN 1946)
- PI controller for heating/cooling (temperature)
- Summer compensation
- PI controller for ventilation (humidity)
- Switching outputs with limit values
- 4 inputs (binary inputs or for temperature sensor T-NTC, N° 30516)
- 8 modules for calculation, conditions, transition
- 4 actuating variable comparators
- 8 AND and 8 OR logic gates (4 inputs each)
- For wall mounting in a socket
- Dimensions of housing approx. 55 x 55 (W x H, mm), completion with standard 55 mm frame (not included)
- Operating voltage: bus voltage

Cala KNX TH
N° 70602

Room Climate Sensor Cala KNX AQS/TH

- Temperature sensor and humidity sensor with calculation of mixed values, of the dewpoint and monitoring of the comfort field (DIN 1946)
- CO_2 sensor
- PI controller for heating/cooling (temperature)
- Summer compensation
- PI controller for ventilation (humidity, CO_2)
- Switching outputs with limit values
- 4 inputs (binary inputs or for temperature sensor T-NTC, N° 30516)
- 8 modules for calculation, conditions, transition
- 4 actuating variable comparators
- 8 AND and 8 OR logic gates (4 inputs each)
- For wall mounting in a socket
- Dimensions of housing approx. 55 x 55 (W x H, mm), completion with standard 55 mm frame (not included)
- Operating voltage: bus voltage

Cala KNX AQS/TH
N° 70603

Air Quality Sensor Cala KNX AQS

- CO_2 sensor
- PI controller for ventilation
- Switching outputs with limit values
- 4 inputs (binary inputs or for temperature sensor T-NTC, N° 30516)
- 8 modules for calculation, conditions, transition
- 4 actuating variable comparators
- 8 AND and 8 OR logic gates (4 inputs each)
- For wall mounting in a socket
- Dimensions of housing approx. 55 x 55 (W x H, mm), completion with standard 55 mm frame (not included)
- Operating voltage: bus voltage

Cala KNX AQS
N° 70604

GERMAN DESIGN AWARD SPECIAL 2016

DESIGN AWARD 2016

Focus Open 2015
Special Mention

KNX INDOOR SENSORS FOR WALL/CEILING MOUNTING

The indoor sensors monitors not only the presence of persons and the brightness in a room, e.g. to switch light in an energy-optimized way, but also measures temperature, air humidity and CO_2 for ambient climate control. The various single and combined sensors offer the appropriate unit for every application. The different models have got various additional functions: To calculate **mixed values**, values of other sensors are received via the bus and mixed with own measured values. The **summer compensation** for cooling adjusts the room target temperature to the outdoor temperature via a characteristic curve. **Multifunctional modules** change input data by calculations, survey of a condition or transition of the data point type. The output of the **logic gates** can be set to 1 bit or 2 x 8 bits according to your needs. The automatic functions and controllers are configured by means of the ETS.

Temperature Sensor Sewi KNX T

Sewi KNX T
N° 70392

- Temperature sensor with calculation of a mixed value
- PI controller for heating/cooling (temperature)
- Summer compensation
- Switching outputs with limit values
- 8 modules for calculation, conditions, transition
- 4 actuating variable comparators
- 8 AND and 8 OR logic gates (4 inputs each)
- For indoor application. Housing for surface mounting, IP 30
- Diameter approx. 105 mm, height 32 mm
- Operating voltage: bus voltage

Temperature/Humidity Sensor Sewi KNX TH

Sewi KNX TH
N° 70393

- Temperature sensor and humidity sensor with calculation of mixed values, of the dewpoint and monitoring of the comfort field (DIN 1946)
- PI controller for heating/cooling (temperature)
- Summer compensation
- PI controller for ventilation (humidity)
- Switching outputs with limit values
- 8 modules for calculation, conditions, transition
- 4 actuating variable comparators
- 8 AND and 8 OR logic gates (4 inputs each)
- For indoor application. Housing for surface mounting, IP 30
- Diameter approx. 105 mm, height 32 mm
- Operating voltage: bus voltage

Air Quality Sensor Sewi KNX AQS

- CO_2 sensor
- PI controller for ventilation
- Switching outputs with limit values
- 8 modules for calculation, conditions, transition
- 4 actuating variable comparators
- 8 AND and 8 OR logic gates (4 inputs each)
- For indoor application. Housing for surface mounting, IP 30
- Diameter approx. 105 mm, height 32 mm
- Operating voltage: bus voltage

Sewi KNX AQS
N° 70394

Brightness Sensor Sewi KNX L

- Brightness sensor
- Switching outputs with limit values
- 8 modules for calculation, conditions, transition
- 8 AND and 8 OR logic gates (4 inputs each)
- For indoor application. Housing for surface mounting, IP 30
- Diameter approx. 105 mm, height 32 mm
- Operating voltage: bus voltage

Sewi KNX L
N° 70395

Presence/Brightness Sensor Sewi KNX L-Pr

- Brightness sensor
- Presence detector (angle of detection 100° × 82°, range 5 m)
- Switching outputs with limit values
- 8 modules for calculation, conditions, transition
- 8 AND and 8 OR logic gates (4 inputs each)
- For indoor application. Housing for surface mounting, IP 30
- Diameter approx. 105 mm, height 32 mm
- Operating voltage: bus voltage

Sewi KNX L-Pr
N° 70396

Room Climate Sensor Sewi KNX AQS/TH-D

- Temperature sensor and humidity sensor with calculation of mixed values, of the dewpoint and monitoring of the comfort field (DIN 1946)
- CO_2 sensor
- Air pressure sensor
- PI controller for heating/cooling (temperature)
- Summer compensation
- PI controller for ventilation (humidity, CO_2)
- Switching outputs with limit values
- 8 modules for calculation, conditions, transition
- 4 actuating variable comparators
- 8 AND and 8 OR logic gates (4 inputs each)
- For indoor application
- Housing for surface mounting, IP 30
- Diameter approx. 105 mm, height 32 mm
- Operating voltage: bus voltage

Sewi KNX AQS/TH-D
N° 70397

Sewi KNX TH L-Pr
N° 70398

Presence/Room Climate Sensor Sewi KNX TH L-Pr

- Brightness sensor
- Presence detector (angle of detection 100° × 82°, range 5 m)
- Temperature sensor and humidity sensor with calculation of mixed values, of the dewpoint and monitoring of the comfort field (DIN 1946)
- PI controller for heating/cooling (temperature)
- Summer compensation
- PI controller for ventilation (humidity)
- Switching outputs with limit values
- 8 modules for calculation, conditions, transition
- 4 actuating variable comparators
- 8 AND and 8 OR logic gates (4 inputs each)
- For indoor application. Surface mounting, IP 30
- Diameter approx. 105 mm, height 32 mm
- Operating voltage: bus voltage

Sewi KNX AQS/TH-D L-Pr
N° 70399

Presence/Room Climate Sensor Sewi KNX AQS/TH-D L-Pr

- Brightness sensor
- Presence detector (angle of detection 100° × 82°, range 5 m)
- Temperature sensor and humidity sensor with calculation of mixed values, of the dewpoint and monitoring of the comfort field (DIN 1946)
- CO_2 sensor
- Air pressure sensor
- PI controller for heating/cooling (temperature)
- Summer compensation
- PI controller for ventilation (humidity, CO_2)
- Switching outputs with limit values
- 8 modules for calculation, conditions, transition
- 4 actuating variable comparators
- 8 AND and 8 OR logic gates (4 inputs each)
- For indoor application. Surface mounting, IP 30
- Diameter approx. 105 mm, height 32 mm
- Operating voltage: bus voltage

KNX SMOKE/HEAT DETECTOR

Salva KNX basic
N° 70405

Salva KNX
N° 70404

Smoke Detector Salva KNX

- Smoke detector
- KNX connection
- Local alarm signal and forwarding of the signal to KNX; local acknowledgement of the alarm
- High operational safety through auto. self-test
- Reporting of polluted smoke chamber
- 8 modules for calculation, conditions, transition
- 8 AND and 8 OR logic gates (4 inputs each)
- For indoor application. Surface mounting, IP 40
- Diameter approx. 113 mm, hight 58 mm
- Power supply via battery (9 V); warning in case of low battery charge

Salva KNX:

- Smoke detector for smoke and heat alarm
- Temperature sensor and humidity sensor with calculation of mixed values, of the dewpoint and monitoring of the comfort field (DIN 1946)
- Air pressure sensor (mbar)
- Switching outputs with limit values for temperature, humidity, pressure
- PI controller for heating/cooling (temperature)
- PI controller for ventilation (humidity)

Salva KNX basic:

- Smoke detector for smoke alarm

KNX ACTUATOR

Multifunctional Actuator KNX S1R-B4 PF

- Potential-free relay output for 1 drive (1x up/down) or two switchable devices (2x on/off)
- Motor run time variable by ETS parameters or active current metering
- Automatic functions for shading, window
- 16 channel scene control
- 4 temperature threshold values, logic gates
- 4 analogue/digital inputs e. g. for temperature sensors T-NTC or Corlo M-T
- For installation on DIN rail, 3 units, white, approx. 53 x 88 x 60 (W x H x D, mm)
- Operating voltage: bus voltage

N° 70204

KNX INTERFACES

IP KNX Interface

- Interface for data transfer from IP to KNX
- For Mobotix IP cameras (8 cameras with 8 input and 8 output objects each)
- Transfer of camera events to KNX bus
- Control of the camera via KNX bus
- KNX bus connector and IP port (POE)
- Installation on DIN rail 3 units, white, approx. 53 x 88 x 60 (W x H x D, mm)

N° 70199

KNX B8-TH Interface

- 8 binary inputs
- 1 sensor input for temperature sensor T-UP basic N° 30520 or temperature/humidity sensor TH-UP basic N° 30525 (see page 15)
- 1 sensor input for temperature sensor T-NTC-ST N° 30513 (see page 15)
- Approx. 38 x 49 x 18 (W x H x D, mm)

DESIGN AWARD 2016

N° 70249

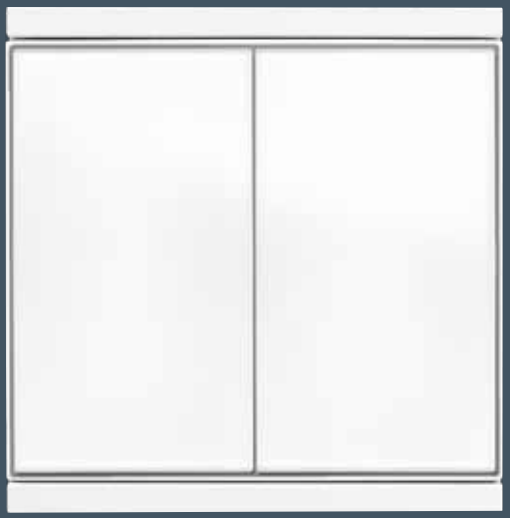
Corlo Cover for LAN Connection Box

- For a dual-port network connection box
- Glas white or black, matt/glossy chromed edge or white/black coated (custom colours on request)
- Approx. 80 × 71 × 12,5 (W × H × D, mm)
- Mounting with Frame Corlo and suitable network connection unit in a socket
- Frame available as 1-gang, 2-gang und 3-gang (not included)

N° 70425

NEW COLOURS FOR SYSTEM CORLO! WHITE MATT + BLACK MATT

FOR MORE INFORMATION, SEE WWW.ELSNER-ELEKTRONIK.DE



GERMAN DESIGN AWARD NOMINEE 2016

SOLEXA II

The wireless control Solexa II is used for shading, window ventilation, brightness and heating control. Because of the modular structure different projects starting with the control of a single awning up to room climate control in a building can be realized. The basis is the battery-powered touch display with temperature sensor and time functions. By adding a radio motor control unit the shutter control is ready for use. Extended functionality is possible through combination with the Solexa II weather station, which reports brightness, temperature, wind and rain. Date, time and position coordinates for calculation of the position of the sun are received via GPS. Thus awnings, blinds and windows can be controlled automatically, too. A connection for a drive is already included in the weather station. Drives, light (switchable, dimmable) and heaters are integrated into the control system via various radio actuators.

For manual operation further Solexa II displays, remote controle Remo 8, push buttons Corlo P RF or an Elsner RF push button interface, can be used. Elsner radio sensors allow for more indoor data to be recorded for control.

Radio Control Solexa II

Modular structure for maximum flexibility:
➔ see graphic on page 14

- Display and weather station are available separately or as a set
- Extension with Elsner radio actuators, sensors and operating devices

Simple, time saving installation via radio communication. Ideal solution for retrofitting, for listed historic buildings and so on.

Functions of the display alone (without weather station):

- Timer for shutter
- Timer for light
- Automatic heating depending on temperature/time

Functions of display and weather station as a set:

- Automatic shading depending on brightness, indoor temperature, sun position; time control
- Timer for shutter
- Automatic window ventilation depending on indoor and outdoor temperature; time control
- Rain/wind and frost protection (can be switched off)
- Storage of a movement position for automatic mode, for blinds also slat angle
- Automatic light control depending on brightness and time
- Automatic heating depending on temperature/time

Solexa II Display *(separately), N° 10144*

Solexa II Set, *white/alu N° 10150*

Display Solexa II

- Touch display
- Integrated room temperature sensor, timer
- In standalone mode (without weather station) for up to 16 Elsner RF radio actuators and 32 Elsner RF operating devices / sensors
- Can be combined with weather station Solexa II
- Surface mounting, approx. 107 x 112 x 14 (WxHxD,mm)
- Integrated battery, charging via USB cable

Solexa II Weather Station N° 10148

Weather Station Solexa II

- For use with Display Solexa II (up to 4 displays)
- Collection of temperature, precipitation, wind speed, light (1 sun sensor); GPS reception
- Connection for 230 V motor (integrated radio motor control unit)
- For up to 16 ELsner RF radio actuators
- Up to 32 Elsner RF operating devices/sensors
- Wi-Fi integration (for app usage) via optional interface SOL
- Approx. 96 x 77 x 118 (W x H x D, mm), IP 44, white/translucent, combined fixture for wall/pole
- Operating voltage 230 V AC

Wi-Fi Interface SOL N° 10154

Wi-Fi Interface SOL

- Communication Interface for Solexa II weather station for wireless networks
- Allows control and display of measured values via smartphone app

OVERVIEW SOLEXA II WITH WEATHER STATION

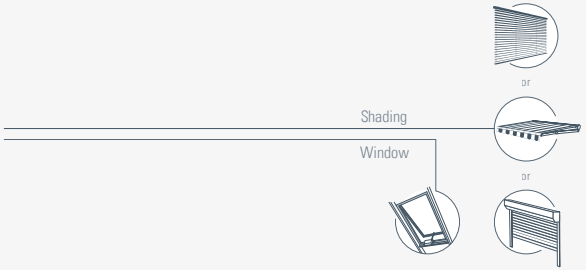
Wi-Fi Interface SOL
for Solexa II Mobile App

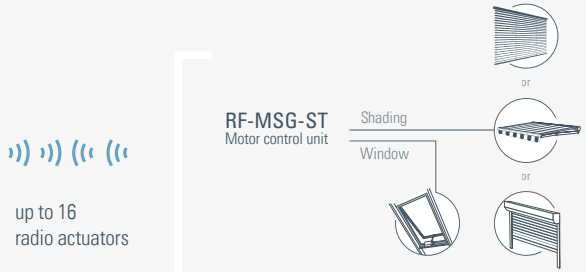
up to 32 operating devices and sensors:
Remote Control Remo 8,
Push Buttons Corlo P RF,
Button Interface RF-B2-UP,
Combined Sensors
WG AQS/TH-UP and WGTH-UP,
Temperature Sensor WGT

Weather Station Solexa II
with 1 connection for drive

Display Solexa II
up to 4 displays can be connected to one weather station

up to 16
radio actuators





RF-MSG-ST
Motor control unit

RF-RELAIS-ST
Radio relay

RF-L UN-ST
Radio dimmer

RF-HE-ST
Radio heating module

SENSORS FOR KNX B8-TH

Temperature Sensor T-NTC-ST

- For indoor and outdoor applications
- Measurement range -30°C to 100°C
- Contact/feed probe with plug for KNX B8-TH
- Length of sensor sleeve approx. 32 mm, Ø approx. 6 mm, cable length approx. 300 cm

N° 30513

Temperature and Humidity Sensors T-UP basic and TH-UP basic

- Sensors for Interface KNX B8-TH
- For wall mounting in a socket (55 mm switch series)

T-UP basic:
- Temperature sensor

TH-UP basic:
- Temperature/humidity sensor

T-UP basic N° 30520
TH-UP basic N° 30525

MOTOR CONTROL UNIT

Motor Control Unit MSG1-UP 24V PS

- For a 24 V DC polarity changer motor, integrated power supply unit (230 V AC to 24 V DC, 0.5 A)
- Non-wearing, noiseless electronical output
- For central and manual control of shading or window
- Central inputs up/stop and down/stop
- Manual inputs up/stop and down/stop
- Flush mounting in a socket
- Approx. 50 x 50 x 54 (W x H x D, mm)
- Operating voltage: 230 V AC

N° 70452

www.elsner-elektronik.de

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