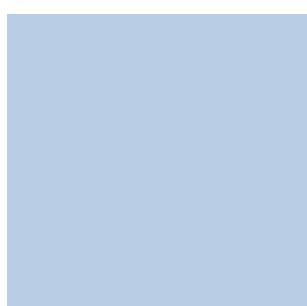


**Summary Pricelist  
10-2022**



## Content

<b>1 Introduction .....</b>	<b>4</b>
1.1 Preface .....	4
1.2 What is KNX Secure? .....	4
1.3 How does KNX Data Security work? .....	4
1.4 What must be observed for a secure setup? .....	5
1.5 How are data encrypted?.....	6
1.6 How is project security realized? .....	6
1.7 Can KNX Secure devices communicate with KNX devices already installed?.....	7
1.8 Frequently Asked Questions .....	8
<b>2 KNX Secure Products .....</b>	<b>10</b>
2.1 KNX Secure Push Buttons and Temperature Sensors Exclusiv 55 .....	10
2.2 KNX Secure Push Button Interfaces.....	18
2.3 KNX Secure Programming Lock .....	19
2.4 KNX Secure Switching Actuators 16A C Load 200µF.....	20
2.5 KNX Secure Switching Actuators 16A C Load 140µF.....	22
2.6 KNX Secure Switching Actuators 16A C load 200µF, manual operation without bus power .....	23
2.7 KNX Secure Dimmers.....	25
2.8 KNX Secure Blind / Shutter Actuators .....	26
2.9 KNX Secure Binary Inputs / Binary Outputs 16A C load 200µF.....	27
2.10 KNX Secure Binary Inputs .....	29
2.11 KNX Secure Binary Inputs with Channel Status .....	30
<b>3 KNX quick Products.....</b>	<b>31</b>
3.1 KNX quick Push Buttons and Temperature Sensors Exclusiv 55.....	31
3.2 KNX quick Push Button Interfaces.....	33
3.3 KNX quick Switching Actuators 16A C load 200µF.....	35
3.4 KNX quick Switching Actuators 16A C Load 140µF .....	37
3.5 KNX quick Dimmers.....	38
3.7 KNX quick Binary Inputs / Binary Outputs 16A C load 200µF .....	41
3.8 KNX quick Binary Inputs .....	43
<b>4 KNX System Devices .....</b>	<b>44</b>
4.1 KNX Power Supplies .....	44
4.2 KNX Line Coupler / Backbone Coupler .....	45
4.3 KNX Interfaces.....	46

5 KNX Secure Sensors .....	47
5.1 KNX Secure Temperature Sensors.....	47
6 KNX Secure Smart Metering Products.....	49
6.1 KNX Electricity Meters.....	49
6.2 KNX Heat Meters.....	54
6.3 KNX Water Meters .....	64
6.4 KNX Gas Meters .....	74
7 Visualisation.....	77
7.1 Symcon.....	77
8 Accessories .....	78
8.1 Exclusiv 55 Cover Frames .....	78
8.2 Mounting Frames for Tablets.....	83
9 New Products .....	84
9.1 KNX Secure Programming Lock .....	84

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All deliveries according to our general terms and conditions.

This pricelist is effective from 1<sup>st</sup> Oct. 2022.

With the publication all previous pricelists become invalid. Information about our current pricelist may also be found on our homepage.

Pictures may deviate.

## 1 Introduction

### 1.1 Preface

Dear customer,

**The KNX world is starting into a new era – the age of digital encryption.**

We at Lingg & Janke wish to accompany you on the way into the new era and support your KNX projects with our products complying with the latest KNX Secure Standard.

### 1.2 What is KNX Secure?

KNX Secure is the systematic further development of the KNX standard. Until now, all data transmitted on the KNX bus were open and readable for anyone having access to this KNX bus, thus permitting manipulation. This is no longer possible with KNX Secure.

Data security and privacy can now also be realized in state-of-the-art electrical installations.

In the KNX standard, KNX Secure is divided into KNX IP Security and KNX Data Security.

KNX IP Security is used when KNX telegrams are transmitted via KNX IP line or area couplers and KNX IP gateways.

For all other KNX bus subscribers, KNX Data Security is used, e.g. for "standard" KNX devices connected to a twisted pair line. Accordingly, KNX Data Security is used by almost all Lingg & Janke KNX products.

### 1.3 How does KNX Data Security work?

KNX telegrams mainly consist of two parts:

an address and controller part (source address, destination address, telegram type) and a data part (switching value, temperature value or device parameter, etc.).

KNX Data Security only encrypts the data part. This has the benefit that by using the source and destination address, the telegram can be routed via the line and area coupler from the sender to the receiver without the necessity of decrypting and encrypting it in each of the couplers.

This permits conventional programming interfaces (USB and IP) as well as standard line and area couplers to be used in paired-wire KNX installations. However, the couplers must be able to process long-frame telegrams. The data part of an encrypted KNX telegram is slightly longer than the data part of a conventional KNX telegram.

To avoid an encrypted KNX telegram (e.g. "Blinds up") being applied multiple times by repetition, the data part is assigned a new number each time it is sent. This sequential number is transmitted unencrypted, but is included in the data encryption. If a sequential number is already known by a recipient, any telegram with the same number will no longer be accepted and will therefore not be executed. Data content is secured, and there are also protective safeguarding mechanisms against data repetition.

#### 1.4 What must be observed for a secure setup?

Since any data content in a KNX Secure telegram can be encrypted, the individual KNX Secure devices can also be set up in secure mode via the ETS®.

To be able to access a KNX device securely, i.e. using encrypted telegrams from the outset, the ETS® requires an initial device key, the so-called Factory Default Setup Key (FDSK).

Lingg & Janke supplies this FDSK for each KNX Secure device as a QR code. The FDSK is also saved in the corresponding device.

Before setup, the QR code of each device is uploaded into the ETS®. The FDSK also includes the serial number of the device, allowing the ETS® to allocate the keys to their devices. When parameterizing the devices via the ETS®, the serial number of the corresponding device is requested each time the programming button is pressed. This allows the ETS® to allocate the matching FDSK and to apply encrypted communication with the device.

To enhance security even further, the ETS® now automatically creates a new device key. This key is transmitted to the device being parameterized using the FDSK. The new ETS® key is named "Tool Key" and becomes valid as soon as it has been transmitted. It is only known to the ETS® or the ETS® project for the specific KNX installation. Thereafter, the FDSK will no longer provide access to the device.

## 1.5 How are data encrypted?

In the further parameterization, the ETS® automatically assigns an additional new group key and uploads it into the device for each group address assigned to the KNX device. This means that if a KNX device is parameterized with thirty different group addresses, then thirty assigned group keys will be uploaded into the device as well. Each telegram containing a different group address will be encrypted with a different group key, accordingly. This represents an enormous increase in security. There is no such thing as a master key in KNX Secure. Each device has its own ETS® key, and each group address has its own group key.

## 1.6 How is project security realized?

So far, so good, but we take it further. The ETS® also assigns each KNX device being parameterized its own sequential number. Then, the ETS® informs all devices connected to the installation (within an ETS® project) which device with which physical address may communicate with which other device. The devices of an installation (within an ETS® project) therefore form a closed group. Accordingly, it is mandatory that an installation is set up with only one specific ETS® project. Newly added devices will not be able to immediately communicate with the other devices of a group. Adding a device requires all existing devices with which it is supposed to communicate to be re-parameterized. This ensures maximum security.

Without the ETS® project for a specific KNX installation, there is practically nothing that can be modified in this installation. Anyone owning the ETS® project has unrestricted control over the project. This ensures installation owners and project creators that unauthorized modifications leading to malfunctions are reliably prevented. The ETS® requires a project password for secure setup. If this password is lost, the ETS® project can no longer be used, and the KNX installation can no longer be modified.

However, the actual KNX products can be reused. After a reset to the factory settings (Factory Reset), the device can be programmed again. All keys, group addresses, etc. used by then will be deleted, removing the device from the installation.

### 1.7 Can KNX Secure devices communicate with KNX devices already installed?

Secure setup and secured, encrypted communication are not mandatory, though. Prior to parameterization, a decision can be made for each device whether it shall be set up in secure mode, i.e. encrypted, or in unsecured mode, i.e. unencrypted. In Lingg & Janke systems, all KNX Secure devices for which a conventional unsecured ETS® application exists, can be set up with the application used by then as well. The KNX Secure device then behave like conventional KNX devices. All Lingg & Janke devices are supplied in unsecured mode.

It is also possible to define encrypted or unencrypted transmission for each group address and for each group telegram created by it. This allows earlier KNX devices not yet supporting KNX Secure to communicate with new KNX Secure devices. Earlier and later devices can therefore be mixed without a problem.

However, if secure communication is the call of duty, secure setup must be used. Otherwise, all group keys could be read out in unsecured mode, and secure transmission would not be ensured.

So far for a brief introduction to KNX Secure.

In practice, all you will notice of these technical features is that you can turn them on or off. Everything else is handled automatically by the devices.

**All the best with your KNX Secure devices from Lingg & Janke!**

**Sincerely, Peter Janke**

ETS® is a registered trademark of the KNX Association in Brussels

## 1.8 Frequently Asked Questions

**Must a KNX Secure device be set up in secure mode?****NO**

All devices are delivered in unsecured mode. Secure setup can be enabled or disabled in the ETS®.

**Must group telegrams for KNX Secure devices always be transmitted encrypted?****NO**

In the ETS®, you can define encrypted or unencrypted conventional transmission for each group address and each group telegram created from it. To do so, secure mode is enabled or disabled in the settings. If you select "Automatic", the ETS® decides on its own whether secure mode is possible or not. Secure mode can be established if all participating devices support KNX Secure and are set up in secure mode.

**Can earlier KNX devices communicate with later KNX Secure devices?****YES**

Secure mode must then be disabled for the corresponding group addresses.

**Can KNX Secure devices set up in secure mode be re-parameterized later on?****YES**

This requires a reset to the factory settings (Factory Reset).

Proceed as follows: Disconnect the bus connector / Press and hold the programming key / Connect the bus connector / Programming LED lights up / Release the programming key / Wait until the programming LED extinguishes (approx. 5 sec.) / Device is now reset to its factory settings.

**Does secure setup require extra effort?****YES**

Only minimum effort is required, however.

All QR codes of the products used must be uploaded into the ETS®. This is done using the camera integrated into the notebook or a USB camera connected to it.

The set-up time for each device increases slightly. For Lingg & Janke devices, the additional time required is approx. 10 – 20 sec. In unsecured mode, approx. 30 sec. are needed for the download. This means a total time of approx. 40 – 50 sec. for the secure setup of each device is required.

**Does a KNX Secure installation require additional maintenance effort?****NO**

However, the availability of the corresponding ETS® project is a prerequisite.

If the ETS® project is open, all telegrams in the ETS® can be displayed and recorded unencrypted. There is practically no difference to a conventional KNX installation.

**Can the keys of an ETS® project be exported?****YES**

You can create an XML file with all keys used in this project. This “keyring” file must be protected by a password.

**Is there any means of visualizing KNX Secure?****YES**

Lingg & Janke offers a matching KNX visualization tool that supports KNX Secure standard. The keys required are transmitted in the “keyring” file.

**Should KNX Secure only be used if so required by the customer?****NO**

An encrypted KNX project provides optimal project security for the installer or system integrator as well.

**Does KNX IP Security provide sufficient security for an entire KNX installation?****NO**

KNX IP Security provides security on the IP network only. All telegrams on the remaining parts of the KNX bus are unprotected.

However, the reverse does not apply: If KNX Data Security is used, all telegrams on the KNX bus are secure, including those transmitted via the IP network.

**Can I modify a KNX Secure installation if the corresponding ETS® project is no longer available?****NO**

Without the corresponding ETS® project containing all keys, you can neither re-parameterize devices nor add any devices. If this was an option, the installation would not be secure.

The only way to go is to reset all devices to their factory settings and to set them up again.

## 2 KNX Secure Products

### 2.1 KNX Secure Push Buttons and Temperature Sensors Exclusiv 55

#### **KNX Secure flush mount push button 4+4fold, 4 binary inputs / outputs**



- Exclusiv 55 series, rocker dimensions 55x55mm
- suitable for frames of various manufacturers
- complete set with flush mount KNX bus coupling unit
- 4 integrated inputs for dry contacts
- 4 integrated outputs for LEDs
- suitable cable sets 87183 - 87185
- input functions: switching (standard, press/release, short/long), dimming, blind / shutter, scene, inhibit
- output functions: time functions, logical functions, status, scenes (8)
- integrated temperature and humidity sensor possible.
- reduced power consumption, approx. 100mW.
- rockers and cover frames have to be ordered separately
- for suitable cover frames see 8.1
- short download time
- ETS application: ta8fxt-sec-en-de-30.knxprod

product code / EAN	product designation	RU	order no.	EUR / pc.*	PG
<b>TA4F55-BCU-SEC</b>  4 260049 687969	flush mount push button 4+4fold 55x55mm, 4 binary inputs / outputs, including KNX Secure bus coupling unit, without rockers, without cover frames, without cable sets	-	87860 SEC	49,00	2
<b>TA4F55-BCU-SEC</b>	project package of 10 pieces		87860 SEC-10	470,00	2
<b>TA4F55TH-BCU-SEC</b>  4 260049 687976	flush mount push button 4+4fold 55x55mm, 4 binary inputs / outputs, integrated temperature and humidity sensor, including KNX Secure bus coupling unit, without rockers, without cover frames, without cable sets	-	87861 SEC	59,00	2
<b>TA4F55TH-BCU-SEC</b>	project package of 10 pieces		87861 SEC-10	570,00	2



**KNX Secure flush mount push button 4+4fold, 4 binary inputs / outputs, with RGB LEDs**

- Exclusiv 55 series, rocker dimensions 55x55mm
- RGB LEDs in rocker corners
- colours selectable via slide switches:  
red, green, blue, yellow, cyan, magenta and white.
- suitable for frames of various manufacturers
- complete set with flush mount KNX bus coupling unit
- 4 integrated inputs for dry contacts
- 4 integrated outputs for LEDs
- suitable cable sets 87183 - 87185
- input functions: switching (standard, press/release, short/long), dimming, blind / shutter, scene, inhibit
- output functions: time functions, logical functions, status, scenes (8)
- integrated temperature and humidity sensor possible.
- reduced power consumption, approx. 100mW (LEDs off).
- rockers and cover frames have to be ordered separately
- for suitable cover frames see 8.1
- short download time
- ETS application: ta8fxt-sec-en-de-30.knxprod

product code / EAN	product designation	RU	order no.	EUR / pc.*	PG
<b>TA4F55RGB-BCU-SEC</b>  4 260049 688652	flush mount push button 4+4fold 55x55mm, 4 binary inputs / outputs, including KNX Secure bus coupling unit, with RGB LEDs, without rockers, without cover frames, without cable sets	-	87862 SEC	64,00	2
<b>TA4F55RGBTH-BCU-SEC</b>  4 260049 688669	flush mount push button 4+4fold 55x55mm, 4 binary inputs / outputs, integrated temperature and humidity sensor, including KNX Secure bus coupling unit, with RGB LEDs, without rockers, without cover frames, without cable sets	-	87863 SEC	74,00	2



#### **flush mount push button 4fold, 24V**

- Exclusiv 55 series, rocker dimensions 55x55mm
- extension for 87860 and 87861
- extension for 87195-RW, 87196-AZ and 87197-WA
- suitable for frames of various manufacturers
- connection via 6gang screwless terminal block
- suitable cable sets 87183 - 87185
- 24VDC 40mA max.
- rockers and cover frames have to be ordered separately
- for suitable cover frames see 8.1

product code / EAN	product designation	RU	order no.	EUR / pc.*	PG
<b>TA4F55-SAT-E</b>  4 260049 680014	flush mount push button 4fold 55x55mm, 24V, without rockers, without cover frames, without cable sets	-	87864	17,50	2

#### **KNX Secure flush mount push button 8fold**



- Exclusiv 55 series, rocker dimensions 55x55mm
- suitable for frames of various manufacturers
- complete set with flush mount KNX bus coupling unit
- input functions: switching (standard, press/release, short/long), dimming, blind / shutter, scene, inhibit
- output functions: time functions, logical functions, status, scenes (8)
- integrated temperature and humidity sensor possible.
- reduced power consumption, approx. 100mW.
- rockers and cover frames have to be ordered separately
- for suitable cover frames see 8.1
- short download time
- ETS application: ta8fxt-sec-en-de-30.knxprod

product code / EAN	product designation	RU	order no.	EUR / pc.*	PG
<b>TA8F55-BCU-SEC</b>  4 260049 687983	KNX Secure flush mount push button 8fold 55x55mm, including KNX bus coupling unit, without rockers, without cover frames	-	87865 SEC	62,00	2
<b>TA8F55TH-BCU-SEC</b>  4 260049 687990	KNX Secure flush mount push button 8fold 55x55mm, integrated temperature and humidity sensor, including KNX bus coupling unit, without rockers, without cover frames	-	87866 SEC	72,00	2



**KNX Secure temperature- and humidity sensor integrated in pluggable cover**

- temperature range -40°C ... 120°C
- relative humidity range 0% ... 100%
- 8 integrated inputs for dry contacts
- 8 integrated outputs for LEDs
- reduced power consumption, approx. 100mW.
- short download time
- Exclusiv 55 series, standard cover 55x55mm
- suitable for frames of various manufacturers
- completely delivered with flush mount KNX bus coupling unit without cable sets (87180 – 87185)
- colours: similar to pure white RAL 9010, anthracite, aluminium white
- for suitable cover frames see 8.1

product code / EAN	product designation	RU	order no.	EUR / pc.*	PG
<b>ALTF55-BCU-SEC-RW</b>  4 260049 680021	temperature and humidity sensor in pluggable cover 55x55, pure white, including KNX Secure bus coupling unit, without cover frames, without cable sets	-	87195 SEC-RW	55,00	1
<b>ALTF55-BCU-SEC-RW</b>	project package of 10 pieces		87195 SEC-RW-10	530,00	1
<b>ALTF55-BCU-SEC-AZ</b>  4 260049 680038	temperature and humidity sensor in pluggable cover 55x55, anthracite, including KNX Secure bus coupling unit, without cover frames, without cable sets	-	87196 SEC-AZ	59,00	1
<b>ALTF55-BCU-SEC-WA</b>  4 260049 680045	temperature and humidity sensor in pluggable cover 55x55, aluminium white, including KNX Secure bus coupling unit, without cover frames, without cable sets	-	87197 SEC-WA	59,00	1



## rocker units, neutral

- suitable for Exclusiv 55 series KNX push buttons
- different colours
- without laser engraving
- for suitable cover frames see 8.1



product code / EAN	product designation	order no.	EUR / pc.*	PG
<b>FL-1-RW</b>  4 260049 685293	single rocker unit, no symbol, pure white alike RAL 9010	87870-RW	2,85	3
<b>FL-1-WM</b>  4 260049 688508	single rocker unit, no symbol, pure white silk mat	87850-WM	4,90	3
<b>FL-1-AZ</b>  4 260049 685309	single rocker unit, no symbol, anthracite	87880-AZ	4,90	3
<b>FL-1-WA</b>  4 260049 685316	single rocker unit, no symbol, alu silver silk gloss	87890-WA	4,90	3
<b>FL-2-RW</b>  4 260049 685323	double rocker unit, no symbol, pure white alike RAL 9010	87875-RW	4,45	3
<b>FL-2-WM</b>  4 260049 688515	double rocker unit, no symbol, pure white silk mat	87855-WM	8,40	3
<b>FL-2-AZ</b>  4 260049 685330	double rocker unit, no symbol, anthracite	87885-AZ	8,40	3
<b>FL-2-WA</b>  4 260049 685347	double rocker unit, no symbol, alu silver silk gloss	87895-WA	8,40	3



### rocker units, symbol 1-0

- suitable for Exclusiv 55 series KNX push buttons
- different colours
- with laser engraving, symbol 1-0
- for suitable cover frames see 8.1



product code / EAN	product designation	order no.	EUR / pc.*	PG
<b>FL-1-EA-RW</b> 	single rocker unit, symbol 1-0, pure white alike RAL 9010	87871-RW	4,60	3
<b>FL-1-EA-WM</b> 	single rocker unit, symbol 1-0, pure white silk mat	87851-WM	8,25	3
<b>FL-1-EA-AZ</b> 	single rocker unit, symbol 1-0, anthracite	87881-AZ	8,25	3
<b>FL-1-EA-WA</b> 	single rocker unit, symbol 1-0, alu silver silk gloss	87891-WA	8,25	3
<b>FL-2-EA-RW</b> 	double rocker unit, symbol 1-0, pure white alike RAL 9010	87876-RW	6,00	3
<b>FL-2-EA-WM</b> 	double rocker unit, symbol 1-0, pure white silk mat	87856-WM	10,50	3
<b>FL-2-EA-AZ</b> 	double rocker unit, symbol 1-0, anthracite	87886-AZ	10,50	3
<b>FL-2-EA-WA</b> 	double rocker unit, symbol 1-0, alu silver silk gloss	87896-WA	10,50	3



## rocker units, symbol arrow

- suitable for Exclusiv 55 series KNX push buttons
- different colours
- with laser engraving, symbol arrow
- for suitable cover frames see 8.1



product code / EAN	product designation	order no.	EUR / pc.*	PG
<b>FL-1-PF-RW</b>  4 260049 685415	single rocker unit, symbol arrow, pure white alike RAL 9010	87872-RW	4,60	3
<b>FL-1-PF-WM</b>  4 260049 688546	single rocker unit, symbol arrow, pure white silk mat	87852-WM	8,25	3
<b>FL-1-PF-AZ</b>  4 260049 685422	single rocker unit, symbol arrow, anthracite	87882-AZ	8,25	3
<b>FL-1-PF-WA</b>  4 260049 687921	single rocker unit, symbol arrow, alu silver silk gloss	87892-WA	8,25	3
<b>FL-2-PF-RW</b>  4 260049 687938	double rocker unit, symbol arrow, pure white alike RAL 9010	87877-RW	6,00	3
<b>FL-2-PF-WM</b>  4 260049 688553	double rocker unit, symbol arrow, pure white silk mat	87857-WM	10,50	3
<b>FL-2-PF-AZ</b>  4 260049 687945	double rocker unit, symbol arrow, anthracite	87887-AZ	10,50	3
<b>FL-2-PF-WA</b>  4 260049 687952	double rocker unit, symbol arrow, alu silver silk gloss	87897-WA	10,50	3



#### separate wire cable sets

- suitable for KNX flush mount push button units 87860, 87861 and temperature- and humidity sensors 87195-RW, 87196-AZ, 87197-WA
- for channels A,B,C,D: black, brown, red, orange, yellow
- for channels E,F,G,H: black, green, blue, violet, grey

product code / EAN	product designation	RU	order no.	EUR / pc.*	PG
<b>EAKAB-ABCD-20</b> 	separate wire cable set for channels A,B,C,D length 20cm	-	87180	4,40	1
<b>EAKAB-ABCD-30</b> 	separate wire cable set for channels A,B,C,D length 30cm	-	87181	4,60	1
<b>EAKAB-ABCD-60</b> 	separate wire cable set for channels A,B,C,D length 60cm	-	87182	5,30	1
<b>EAKAB-EFGH-20</b> 	separate wire cable set for channels E,F,G,H length 20cm	-	87183	4,40	1
<b>EAKAB-EFGH-30</b> 	separate wire cable set for channels E,F,G,H length 30cm	-	87184	4,60	1
<b>EAKAB-EFGH-60</b> 	separate wire cable set for channels E,F,G,H length 60cm	-	87185	5,30	1

## 2.2 KNX Secure Push Button Interfaces



deviating picture

### KNX Secure push button interface 4 fold, with separate wire connectors

- for single button control and rockers
- input functions: switching (standard, press/release, short/long), dimming, blind / shutter, scene, inhibit
- output functions: time functions, logical functions, status, scenes (8)
- inputs for dry contacts
- separate wires for input connection (20cm)

product code / EAN	product designation	RU	order no.	EUR / pc.*	PG
<b>TS4F-2-SEC</b>  4 260049 682322	KNX Secure push button interface with 4 inputs, with separate wires	-	79880 SEC	52,00	1



deviating picture

### KNX Secure push button interface 8 fold, with separate wire connectors

- for single button control and rockers
- input functions: switching (standard, press/release, short/long), dimming, blind / shutter, scene, inhibit
- output functions: time functions, logical functions, status, scenes (8), usable for logic
- inputs for dry contacts
- separate wires for input connection (20cm)

product code / EAN	product designation	RU	order no.	EUR / pc.*	PG
<b>TS8F-2-SEC</b>  4 260049 682346	KNX Secure push button interface with 8 inputs, with separate wires	-	79882 SEC	62,00	1



deviating picture

### KNX Secure push button interface 4 fold with LEDs, with separate wire connectors

- for single button control and rockers
- input functions: switching (standard, press/release, short/long), dimming, blind / shutter, scene, inhibit
- output functions: time functions, logical functions, status, scenes (8)
- inputs for dry contacts
- separate wires for input connection (20cm)

product code / EAN	product designation	RU	order no.	EUR / pc.*	PG
<b>TS4FL-2-SEC</b>  4 260049 682339	KNX Secure push button interface with 4 inputs and 4 outputs (LEDs), with separate wires	-	79881 SEC	57,00	1

## 2.3 KNX Secure Programming Lock



deviating picture

### KNX Secure programming lock including push button interface 4 fold with LEDs, with separate wire connectors

- can block ETS download on one KNX bus line
- protection switchable via Secure group object.
- automatic activation of blocking function after timeout.
  
- all push button functions are available with no restrictions.
- input functions: switching (standard, press/release, short/long), dimming, blind / shutter, scene, inhibit
- output functions: time functions, logical functions, status, scenes (8)
- inputs for dry contacts
- separate wires for input connection (20cm)

product code / EAN	product designation	RU	order no.	EUR / pc.*	PG
<b>TS4FL-2-PS-SEC</b>  4 260049 689611	KNX Secure programming lock including push button interface with 4 inputs and 4 outputs (LEDs), with separate wires	-	79883 SEC	67,00	1

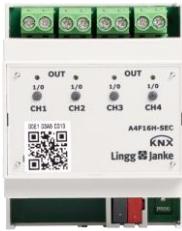
## 2.4 KNX Secure Switching Actuators 16A C Load 200µF



### KNX Secure switching actuator 2 fold, C load

- FDSK on frontplate for easy read access
- 2 channels for 2 independent load circuits
- manual operation for each channel
- time functions, logical functions, status, scenes (32), announce function, inhibit function, hour meter
- switching capacity per channel: 16A 250VAC, suitable for C load up to 200µF

product code / EAN	product designation	RU	order no.	EUR / pc.*	PG
<b>A2F16H-SEC</b>  4 260049 684937	KNX Secure switching actuator 2f, manual operation	3	79231 SEC	121,00	1



### KNX Secure switching actuator 4 fold, C load

- FDSK on frontplate for easy read access
- 4 channels for 4 independent load circuits
- manual operation for each channel
- time functions, logical functions, status, scenes (32), announce function, inhibit function, hour meter
- switching capacity per channel: 16A 250VAC, suitable for C load up to 200µF

product code / EAN	product designation	RU	order no.	EUR / pc.*	PG
<b>A4F16H-SEC</b>  4 260049 684944	KNX Secure switching actuator 4f, manual operation	4	79232 SEC	143,00	1



### KNX Secure switching actuator 6 fold, C load

- FDSK on frontplate for easy read access
- 6 channels for 6 independent load circuits
- manual operation for each channel
- time functions, logical functions, status, scenes (32), announce function, inhibit function, hour meter
- switching capacity per channel: 16A 250VAC, suitable for C load up to 200µF

product code / EAN	product designation	RU	order no.	EUR / pc.*	PG
<b>A6F16H-SEC</b>  4 260049 684951	KNX Secure switching actuator 6f, manual operation	6	79234 SEC	183,00	1

**KNX Secure switching actuator 9 fold, C load**

- FDSK on frontplate for easy read access
- 9 channels for 9 independent load circuits
- manual operation for each channel
- time functions, logical functions, status, scenes (32), announce function, inhibit function, hour meter
- switching capacity per channel: 16A 250VAC, suitable for C load up to 200µF

product code / EAN	product designation	RU	order no.	EUR / pc.*	PG
<b>A9F16H-SEC</b>  4 260049 684968	KNX Secure switching actuator 9f, manual operation	9	79235 SEC	209,00	1

## 2.5 KNX Secure Switching Actuators 16A C Load 140µF



### KNX Secure switching actuator 3 fold

- FDSK on frontplate for easy read access
- 3 channels for 3 independent load circuits
- manual operation for each channel
- time functions, logical functions, status, scenes (32), announce function, inhibit function, hour meter
- switching capacity per channel: 16A 250VA, suitable for C load up to 140µF

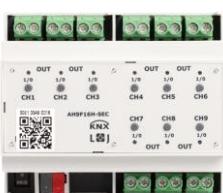
product code / EAN	product designation	RU	order no.	EUR / pc.*	PG
<b>AH3F16H-SEC</b>  4 260049 686986	KNX Secure switching actuator 3 fold, manual operation	3	79236 SEC	120,00	1



### KNX Secure switching actuator 5 fold

- FDSK on frontplate for easy read access
- 5 channels for 5 independent load circuits
- manual operation for each channel
- time functions, logical functions, status, scenes (32), announce function, inhibit function, hour meter
- switching capacity per channel: 16A 250VAC, suitable for C load up to 140µF

product code / EAN	product designation	RU	order no.	EUR / pc.*	PG
<b>AH5F16H-SEC</b>  4 260049 686993	KNX Secure switching actuator 5 fold, manual operation	4	79237 SEC	142,00	1



### KNX Secure switching actuator 9 fold

- FDSK on frontplate for easy read access
- 9 channels for 9 independent load circuits
- manual operation for each channel
- time functions, logical functions, status, scenes (32), announce function, inhibit function, hour meter
- switching capacity per channel: 16A 250VAC, suitable for C load up to 140µF

product code / EAN	product designation	RU	order no.	EUR / pc.*	PG
<b>AH9F16H-SEC</b>  4 260049 687006	KNX Secure switching actuator 9 fold, manual operation	6	79238 SEC	172,00	1

## 2.6 KNX Secure Switching Actuators 16A C load 200µF, manual operation without bus power

### KNX Secure switching actuator 2x6 fold, C load



- 2x6 channels for 12 independent load circuits
- manual operation of relays without KNX bus power
- time functions, logical functions, status, scenes (32), announce function, inhibit function, hour meter
- switching capacity per channel: 16A 250VAC, suitable for C load up to 200µF

product code / EAN	product designation	RU	order no.	EUR / pc.*	PG
<b>A2X6F16H-2-SEC</b>  4 260049 686320	KNX Secure switching actuator 2x6f, manual operation	12	89204 SEC	299,00	1

### KNX Secure switching actuator 6 fold, C load



- 6 channels for 6 independent load circuits
- manual operation of relays without KNX bus power
- time functions, logical functions, status, scenes (32), announce function, inhibit function, hour meter
- switching capacity per channel: 16A 250VAC, suitable for C load up to 200µF

product code / EAN	product designation	RU	order no.	EUR / pc.*	PG
<b>A6F16H-2-SEC</b>  4 260049 686337	KNX Secure switching actuator 6f, manual operation	6	89205 SEC	199,00	1

### KNX Secure switching actuator 6 fold, C load, with KNX PSU



- KNX power supply including choke, 640mA
- 6 channels for 6 independent load circuits
- manual operation of relays without KNX bus power
- time functions, logical functions, status, scenes (32), announce function, inhibit function, hour meter
- switching capacity per channel: 16A 250VAC, suitable for C load up to 200µF

product code / EAN	product designation	RU	ordern o.	EUR / pc.*	PG
<b>NTA6F16H-2-SEC</b>  4 260049 686344	KNX Secure switching actuator 6 fold with KNX PSU, manual operation	12	89212 SEC	299,00	1

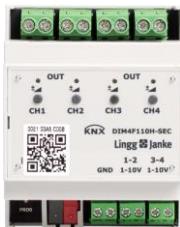
### KNX Secure switching actuator 6 fold, C load, with KNX PSU, with USB interface



- KNX power supply including choke, 640mA
- USB interface for KNX bus setup
- manual operation of relays without KNX bus power
- time functions, logical functions, status, scenes (32), announce function, inhibit function, hour meter
- switching capacity per channel: 16A 250VAC, suitable for C load up to 200µF

product code / EAN	product designation	RU	order no.	EUR / pc.*	PG
<b>NTA6F16H+USB-2-SEC</b>  4 260049 686351	KNX Secure switching actuator 6 fold with KNX PSU, manual operation, with USB	12	89222 SEC	435,00	1

## 2.7 KNX Secure Dimmers



### KNX Secure 1-10V interface 4 fold

- FDSK on frontplate for easy read access
- 4 channels for 4 independent load circuits
- manual operation for each channel
- switching capacity per channel: 16A 250VAC, suitable for C load up to 140µF
- 1-10V control output per channel: max. 20 loads

product code / EAN	product designation	RU	order no.	EUR / pc.*	PG
<b>DIM4F110H-SEC</b>  4 260049 687907	KNX Secure 1-10V interface 4fold, manual operation	4	77611 SEC	152,00	1

### dimmer 4 fold, 570W



- 4 channels for 4 independent load circuits
- for dimmable LEDs
- for dimmable energy saving lamps
- flicker-free dimming range 0-100%
- energy meter for each channel
- dimming capacity per channel: 2,5A 250VAC 570W
- 2 channels (AB and CD) combinable for 1000W loads

product code / EAN	product designation	RU	order no.	EUR / pc.*	PG
<b>DIM4FU-2-FW</b>  4 260049 682445	KNX std. universal dimming actuator 4 fold, 4x2,5A / 570W	12	87601 SEC	595,00	1

## 2.8 KNX Secure Blind / Shutter Actuators



### KNX Secure blind / shutter actuator 2 fold 10A

- FDSK on frontplate for easy read access
- 2 channels for 2 independent electrical drives
- manual operation for each channel
- time functions, positions, scenes (8), alarm function, inhibit function, status
- switching capacity per channel: 10A 250VAC
- mechanical contact locking for each channel

product code / EAN	product designation	RU	order no.	EUR / pc.*	PG
<b>J2F10H-SEC</b>  4 260049 687839	KNX Secure blind / shutter actuator 2 fold 10A, manual operation	3	79436 SEC	133,00	1



### KNX Secure blind / shutter actuator 4 fold 10A

- FDSK on frontplate for easy read access
- 4 channels for 4 independent electrical drives
- manual operation for each channel
- time functions, positions, scenes (8), alarm function, inhibit function, status
- switching capacity per channel: 10A 250VAC
- mechanical contact locking for each channel

product code / EAN	product designation	RU	order no.	EUR / pc.*	PG
<b>J4F10H-SEC</b>  4 260049 687846	KNX Secure blind / shutter actuator 4 fold 10A, manual operation	4	79437 SEC	179,00	1

### KNX Secure blind / shutter actuator 6 fold 10A



- FDSK on frontplate for easy read access
- 6 channels for 6 independent electrical drives
- manual operation for each channel
- time functions, positions, scenes (8), alarm function, inhibit function, status
- switching capacity per channel: 10A 250VAC
- mechanical contact locking for each channel

product code / EAN	product designation	RU	order no.	EUR / pc.*	PG
<b>J6F10H-SEC</b>  4 260049 687853	KNX Secure blind / shutter actuator 6 fold 10A, manual operation	6	79438 SEC	226,00	1

## 2.9 KNX Secure Binary Inputs / Binary Outputs 16A C load 200µF

### KNX Secure binary input / binary output 4 fold



- inputs for dry contacts
- max. cable length 100m
- manual operation for each output channel
- input functions: switching (standard, press/release, short/long), dimming, blind / shutter, scene, inhibit
- output functions: time functions, logical functions, status, scenes (8)
- switching capacity per channel: 16A 250VAC, suitable for C load up to 200µF

product code / EAN	product designation	RU	order no.	EUR / pc.*	PG
<b>BEA4FK16H-SEC</b> 	KNX Secure binary input / binary output 4 fold, for dry contacts, manual operation	6	79243 SEC	166,00	1

### KNX Secure binary input / binary output 4 fold



- 230VAC inputs
- manual operation for each output channel
- input functions: switching (standard, press/release, short/long), dimming, blind / shutter, scene, inhibit
- output functions: time functions, logical functions, status, scenes (8)
- switching capacity per channel: 16A 250VAC, suitable for C load up to 200µF

product code / EAN	product designation	RU	order no.	EUR / pc.*	PG
<b>BEA4F230H-SEC</b> 	KNX Secure binary input / binary output 4 fold, signal voltage 230V, manual operation	6	79244 SEC	166,00	1

### KNX Secure binary input / binary output 4 fold



- 24V AC/DC inputs
- manual operation for each output channel
- input functions: switching (standard, press/release, short/long), dimming, blind / shutter, scene, inhibit
- output functions: time functions, logical functions, status, scenes (8)
- switching capacity per channel: 16A 250VAC, suitable for C load up to 200µF

product code / EAN	product designation	RU	order no.	EUR / pc.*	PG
<b>BEA4F24H-SEC</b> 	KNX Secure binary input / binary output 4 fold, signal voltage 24V, manual operation	6	79246 SEC	166,00	1

### KNX Secure binary input / binary output 8 fold



- inputs for dry contacts
- max. cable length 100m
- manual operation for each output channel
- input functions: switching (standard, press/release, short/long), dimming, blind / shutter, scene, inhibit
- output functions: time functions, logical functions, status, scenes (8)
- switching capacity per channel: 16A 250VAC, suitable for C load up to 200µF

product code / EAN	product designation	RU	order no.	EUR / pc.*	PG
<b>BEA8FK16H-SEC</b>  4 260049 684975	KNX Secure binary input / binary output 8 fold, for dry contacts, manual operation	9	79241 SEC	257,00	1

### KNX Secure binary input / binary output 8 fold



- 230VAC inputs
- manual operation for each output channel
- input functions: switching (standard, press/release, short/long), dimming, blind / shutter, scene, inhibit
- output functions: time functions, logical functions, status, scenes (8)
- switching capacity per channel: 16A 250VAC, suitable for C load up to 200µF

product code / EAN	product designation	RU	order no.	EUR / pc.*	PG
<b>BEA8F230H-SEC</b>  4 260049 682292	KNX Secure binary input / binary output 8 fold, signal voltage 230V, manual operation	9	79242 SEC	257,00	1

### KNX Secure binary input / binary output 8 fold



- 24V AC/DC inputs
- manual operation for each output channel
- input functions: switching (standard, press/release, short/long), dimming, blind / shutter, scene, inhibit
- output functions: time functions, logical functions, status, scenes (8)
- switching capacity per channel: 16A 250VAC, suitable for C load up to 200µF

product code / EAN	product designation	RU	order no.	EUR / pc.*	PG
<b>BEA8F24H-SEC</b>  4 260049 686979	KNX Secure binary input / binary output 8 fold, signal voltage 24V, manual operation	9	79245 SEC	257,00	1

## 2.10 KNX Secure Binary Inputs



### KNX Secure binary input 4 fold

- FDSK on frontplate for easy read access
- inputs for dry contacts
- max. cable length 100m
- switching, dimming, blind / shutter control, values, counters

product code / EAN	product designation	RU	order no.	EUR / pc.*	PG
<b>BE4FK-SEC</b>  4 260049 685019	KNX Secure binary input 4 fold, for dry contacts	4	79531 SEC	138,00	1



### KNX Secure binary input 4 fold

- FDSK on frontplate for easy read access
- 230VAC inputs
- switching, dimming, blind / shutter control, values, counters

product code / EAN	product designation	RU	order no.	EUR / pc.*	PG
<b>BE4F230-SEC</b>  4 260049 685026	KNX Secure binary input 4 fold, signal voltage 230V	4	79532 SEC	141,00	1

## 2.11 KNX Secure Binary Inputs with Channel Status

### binary input 9 fold



- inputs for dry contacts
- max. cable length 100m
- switching, dimming, blind / shutter control, values, counters

product code / EAN	product designation	RU	order no.	EUR / pc.*	PG
<b>BE9FK</b>  4 260049 680267	KNX std. binary input 9 fold, for dry contacts	6	89501 SEC	205,00	1

### binary input 9 fold



- 230VAC inputs
- switching, dimming, blind / shutter control, values, counters

product code / EAN	product designation	RU	order no.	EUR / pc.*	PG
<b>BE9F230</b>  4 260049 680519	KNX std. binary input 9 fold, signal voltage 230V	6	89505 SEC	205,00	1

### binary input 9 fold



- 24V AC/DC inputs
- switching, dimming, blind / shutter control, values, counters

product code / EAN	product designation	RU	order no.	EUR / pc.*	PG
<b>BE9F24</b>  4 260049 680526	KNX std. binary input 9 fold, signal voltage 24V	6	89506 SEC	205,00	1

### 3 KNX quick Products

#### 3.1 KNX quick Push Buttons and Temperature Sensors Exclusiv 55

##### **KNX flush mount push button 4+4fold, 4 binary inputs / outputs, KNX quick**



- Exclusiv 55 series, rocker dimensions 55x55mm
- suitable for frames of various manufacturers
- complete set with flush mount KNX bus coupling unit
- 4 integrated inputs for dry contacts
- 4 integrated outputs for LEDs
- suitable cable sets 87183 – 87185, see 2.1
- functions: switching (all off, off, on, toggle), dimming (darker, brighter, darker/brighter), blind / shutter control (down, up, down/up), heating (with external 2 way controller)
- integrated temperature and humidity sensor possible.
- rockers and cover frames have to be ordered separately
- for suitable rockers see 2.1
- for suitable cover frames see 8.1
- programmable via ETS with coding switches set to 0

product code / EAN	product designation	RU	order no.	EUR / pc.*	PG
<b>TA4F55-BCU-Q</b>  4 260049 688355	KNX quick flush mount push button 4+4fold 55x55mm, 4 binary inputs / outputs, including KNX bus coupling unit, without rockers, without cover frames, without cable sets	-	Q87860	59,00	2
<b>TA4F55TH-BCU-Q</b>  4 260049 688362	KNX quick flush mount push button 4+4fold 55x55mm, 4 binary inputs / outputs, integrated temperature and humidity sensor, including KNX bus coupling unit, without rockers, without cover frames, without cable sets	-	Q87861	69,00	2



### **KNX flush mount push button 2+2fold rocker, KNX quick**

- Exclusiv 55 series, rocker dimensions 55x55mm
- suitable for frames of various manufacturers
- complete set with flush mount KNX bus coupling unit
- double rocker operation
- double rocker extension unit with 87864
- functions: all off, switching, dimming, blind / shutter control
- suitable cable sets 87183 – 87185, see 2.1
- rockers and cover frames have to be ordered separately
- for suitable rockers see 2.1
- for suitable cover frames see 8.1
- programmable via ETS with coding switches set to 0

product code / EAN	product designation	RU	order no.	EUR / pc.*	PG
<b>TA4F55-BCU-QW</b>  4 260049 688645	KNX quick flush mount push button 2+2fold rocker, 55x55mm, including KNX bus coupling unit, without rockers, without cover frames, without cable sets	-	Q87869	59,00	2

### **flush mount push button 4fold, 24V**



- extension for Q87860 Q87861 and Q87869
- extension for Q87195-RW, Q87196-AZ and Q87197-WA
- order no. 87864, see 2.1

### 3.2 KNX quick Push Button Interfaces



#### **push button interface 4 fold, for single button control, with separate wire connectors, KNX quick**

- for single button control
- functions: switching (all off, off, on, toggle), dimming (darker, brighter, darker/brighter), blind / shutter control (down, up, down/up), heating (with external 2 way ctrl.)
- inputs for dry contacts
- separate wires for input connection (20cm)
- programmable via ETS with coding switches set to 0

product code / EAN	product designation	RU	order no.	EUR / pc.*	PG
<b>TS4F-2-QU</b> 	KNX quick push button interface for 4 single buttons, with separate wires	-	Q77880	57,00	1



#### **push button interface 8 fold, for single button control, with separate wire connectors, KNX quick**

- for single button control
- functions: switching (all off, off, on, toggle), dimming (darker, brighter, darker/brighter), blind / shutter control (down, up, down/up), heating (with external 2 way ctrl.)
- inputs for dry contacts
- separate wires for input connection (20cm)
- programmable via ETS with coding switches set to 0

product code / EAN	product designation	RU	order no.	EUR / pc.*	PG
<b>TS8F-2-QU</b> 	KNX quick push button interface for 8 single buttons, with separate wires	-	Q77882	67,00	1



#### **push button interface 4 fold with LEDs, for single button control, with separate wire connectors, KNX quick**

- for single button control
- functions: switching (all off, off, on, toggle), dimming (darker, brighter, darker/brighter), blind / shutter control (down, up, down/up), heating (with external 2 way ctrl.)
- inputs for dry contacts
- separate wires for input and output connection (20cm)
- programmable via ETS with coding switches set to 0

product code / EAN	product designation	RU	order no.	EUR / pc.*	PG
<b>TS4FL-2-QU</b> 	KNX quick push button interface for 4 single buttons with LEDs, with separate wires	-	Q77881	62,00	1



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**push button interface 4 fold, for single buttons, blind / shutter wind alarm, with separate wire connectors, KNX quick**

- for single button control
- functions: switching (all off, off, on, toggle), dimming (darker, brighter, darker/brighter), blind / shutter control (down, up, down/up), blind / shutter wind alarm (with external alarm device)
- inputs for dry contacts
- separate wires for input connection (20cm)
- programmable via ETS with coding switches set to 0

product code / EAN	product designation	RU	order no.	EUR / pc.*	PG
<b>TS4FJ-2-QU</b>  4 260049 687358	KNX quick push button interface for 4 single buttons, blind / shutter wind alarm, with separate wires	-	Q77883	57,00	1

### 3.3 KNX quick Switching Actuators 16A C load 200µF



#### switching actuator 2 fold, C load, KNX quick

- 2 channels for 2 independent load circuits
- switching capacity per channel: 16A 250VAC, suitable for C load up to 200µF
- programmable via ETS with coding switches set to 0

product code / EAN	product designation	RU	order no.	EUR / pc.*	PG
<b>A2F16-Q</b> 	KNX quick switching actuator 2 fold	3	Q79231	121,00	1



#### switching actuator 4 fold, C load, KNX quick

- 4 channels for 4 independent load circuits
- switching capacity per channel: 16A 250VAC, suitable for C load up to 200µF
- programmable via ETS with coding switches set to 0

product code / EAN	product designation	RU	order no.	EUR / pc.*	PG
<b>A4F16-Q</b> 	KNX quick switching actuator 4 fold	4	Q79232	143,00	1

#### switching actuator 6 fold, C load, KNX quick



- 6 channels for 6 independent load circuits
- switching capacity per channel: 16A 250VAC, suitable for C load up to 200µF
- programmable via ETS with coding switches set to 0

product code / EAN	product designation	RU	order no.	EUR / pc.*	PG
<b>A6F16-Q</b> 	KNX quick switching actuator 6 fold	6	Q79234	183,00	1



### switching actuator 9 fold, C load, KNX quick

- 9 channels for 9 independent load circuits
- switching capacity per channel: 16A 250VAC, suitable for C load up to 200µF
- programmable via ETS with coding switches set to 0

product code / EAN	product designation	RU	order no.	EUR / pc.*	PG
<b>A9F16-Q</b>  4 260049 685132	KNX quick switching actuator 9 fold	9	Q79235	209,00	1



### switching actuator 4 fold, C load, KNX quick

- 4 channels for 4 independent load circuits
- blinking and staircase function (10sec. – 20min.)
- switching capacity per channel: 16A 250VAC, suitable for C load up to 200µF
- programmable via ETS with coding switches set to 0

product code / EAN	product designation	RU	order no.	EUR / pc.*	PG
<b>A4F16-QT</b>  4 260049 685118	KNX quick switching actuator 4 fold, with staircase function	4	Q79233	167,00	1

### 3.4 KNX quick Switching Actuators 16A C Load 140µF



#### switching actuator 3 fold, KNX quick

- 3 channels for 3 independent load circuits
- switching capacity per channel: 16A 250VAC, suitable for C load up to 140µF
- programmable via ETS with coding switches set to 0

product code / EAN	product designation	RU	order no.	EUR / pc.*	PG
<b>AH3F16-Q</b>  4 260049 687037	KNX quick switching actuator 3 fold	3	Q79236	120,00	1



#### switching actuator 5 fold, KNX quick

- 5 channels for 5 independent load circuits
- switching capacity per channel: 16A 250VAC, suitable for C load up to 140µF
- programmable via ETS with coding switches set to 0

product code / EAN	product designation	RU	order no.	EUR / pc.*	PG
<b>AH5F16-Q</b>  4 260049 687044	KNX quick switching actuator 5 fold	4	Q79237	142,00	1



#### switching actuator 9 fold, KNX quick

- 9 channels for 9 independent load circuits
- switching capacity per channel: 16A 250VAC, suitable for C load up to 140µF
- programmable via ETS with coding switches set to 0

product code / EAN	product designation	RU	order no.	EUR / pc.*	PG
<b>AH9F16-Q</b>  4 260049 687051	KNX quick switching actuator 9 fold	6	Q79238	172,00	1

### 3.5 KNX quick Dimmers

#### 1-10V interface 4 fold, KNX quick



- 4 channels for 4 independent load circuits
- switching capacity per channel: 16A 250VAC, suitable for C load up to 140µF
- 1-10V control output per channel: max. 20 loads
- programmable via ETS with coding switches set to 0

product code / EAN	product designation	RU	order no.	EUR / pc.*	PG
<b>DIM4F110-Q</b>  4 260049 687914	KNX quick 1-10V interface 4fold	4	Q77611	152,00	1

#### dimmer 4 fold, 570W, KNX quick



- 4 channels for 4 independent load circuits
- for dimmable LEDs
- for dimmable energy saving lamps
- flicker-free dimming range 0-100%
- dimming capacity per channel: 2,5A 250VAC 570W
- 2 channels combinable (AB and CD) for 1000W loads
- programmable via ETS with coding switches set to 0

product code / EAN	product designation	RU	order no.	EUR / pc.*	PG
<b>DIM4FU-2-FW-Q</b>  4 260049 685033	KNX quick universal dimming actuator 4 fold, 4x2,5A / 570W	12	Q77601	595,00	1

### 3.6 KNX quick Blind / Shutter Actuators



#### **blind / shutter actuator 2 fold 10A, KNX quick**

- 2 channels for 2 independent electrical drives
- switching capacity per channel: 10A 250VAC
- mechanical contact locking for each channel
- programmable via ETS with coding switches set to 0

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product code / EAN	product designation	RU	order no.	EUR / pc.*	PG
<b>J2F10-Q</b>  4 260049 687860	KNX quick blind / shutter actuator 2fold, 10A	3	Q79436	133,00	1

#### **blind / shutter actuator 4 fold 10A, KNX quick**



- 4 channels for 4 independent electrical drives
- switching capacity per channel: 10A 250VAC
- mechanical contact locking for each channel
- programmable via ETS with coding switches set to 0

deviating picture

product code / EAN	product designation	RU	order no.	EUR / pc.*	PG
<b>J4F10-Q</b>  4 260049 687877	KNX quick blind / shutter actuator 4fold, 10A	4	Q79437	179,00	1

#### **blind / shutter actuator 6 fold 10A, KNX quick**



- 6 channels for 6 independent electrical drives
- switching capacity per channel: 10A 250VAC
- mechanical contact locking for each channel
- programmable via ETS with coding switches set to 0

deviating picture

product code / EAN	product designation	RU	order no.	EUR / pc.*	PG
<b>J6F10-Q</b>  4 260049 687884	KNX quick blind / shutter actuator 6fold, 10A	6	Q79438	226,00	1



deviating picture

**blind / shutter actuator 4 fold 10A, KNX quick**

- 4 channels for 4 independent electrical drives
- blind / shutter mode individually selectable per channel
- switching capacity per channel: 10A 250VAC
- mechanical contact locking for each channel
- programmable via ETS with coding switches set to 0

product code / EAN	product designation	RU	order no.	EUR / pc.*	PG
<b>J4F10-QA</b>  4 260049 687891	KNX quick blind / shutter actuator 4fold, 10A, mode individually selectable	4	Q79439	201,00	1

### 3.7 KNX quick Binary Inputs / Binary Outputs 16A C load 200µF

#### binary input / binary output 4 fold, KNX quick



- inputs for dry contacts
- max. cable length 100m
- switching capacity per channel: 16A 250VAC, suitable for C load up to 200µF
- programmable via ETS with coding switches set to 0

product code / EAN	product designation	RU	order no.	EUR / pc.*	PG
<b>BEA4FK16-Q</b>  4 260049 686443	KNX quick binary input / binary output 4 fold, for dry contacts	6	Q79243	166,00	1

#### binary input / binary output 4 fold, KNX quick



- 230VAC inputs
- switching capacity per channel: 16A 250VAC, suitable for C load up to 200µF
- programmable via ETS with coding switches set to 0

product code / EAN	product designation	RU	order no.	EUR / pc.*	PG
<b>BEA4F230-Q</b>  4 260049 686450	KNX quick binary input / binary output 4 fold, signal voltage 230V	6	Q79244	166,00	1

#### binary input / binary output 4 fold, KNX quick



- 24V AC/DC inputs
- switching capacity per channel: 16A 250VAC, suitable for C load up to 200µF
- programmable via ETS with coding switches set to 0

product code / EAN	product designation	RU	order no.	EUR / pc.*	PG
<b>BEA4F24-Q</b>  4 260049 687013	KNX quick binary input / binary output 4 fold, signal voltage 24V	6	Q79246	166,00	1



#### binary input / binary output 8 fold, KNX quick

- inputs for dry contacts
- max. cable length 100m
- switching capacity per channel: 16A 250VAC, suitable for C load up to 200µF
- programmable via ETS with coding switches set to 0

product code / EAN	product designation	RU	order no.	EUR / pc.*	PG
<b>BEA8FK16-Q</b>  4 260049 685149	KNX quick binary input / binary output 8 fold, for dry contacts	9	Q79241	257,00	1

#### binary input / binary output 8 fold, KNX quick



- 230VAC inputs
- switching capacity per channel: 16A 250VAC, suitable for C load up to 200µF
- programmable via ETS with coding switches set to 0

product code / EAN	product designation	RU	order no.	EUR / pc.*	PG
<b>BEA8F230-Q</b>  4 260049 686436	KNX quick binary input / binary output 8 fold, signal voltage 230V	9	Q79242	257,00	1

#### binary input / binary output 8 fold, KNX quick



- 24V AC/DC inputs
- switching capacity per channel: 16A 250VAC, suitable for C load up to 200µF
- programmable via ETS with coding switches set to 0

product code / EAN	product designation	RU	order no.	EUR / pc.*	PG
<b>BEA8F24-Q</b>  4 260049 687020	KNX quick binary input / binary output 8 fold, signal voltage 24V	9	Q79245	257,00	1

### 3.8 KNX quick Binary Inputs



#### **binary input 4 fold, KNX quick**

- inputs for dry contacts
- max. cable length 100m
- functions: switching (off, on), dimming (darker, brighter), blind / shutter control (down, up)
- programmable via ETS with coding switches set to 0

product code / EAN	product designation	RU	order no.	EUR / pc.*	PG
<b>BE4FK-Q</b>  4 260049 685194	KNX quick binary input 4 fold, for dry contacts	4	Q79531	138,00	1



#### **binary input 4 fold, KNX quick**

- 230VAC inputs
- functions: switching (off, on), dimming (darker, brighter), blind / shutter control (down, up)
- programmable via ETS with coding switches set to 0

product code / EAN	product designation	RU	order no.	EUR / pc.*	PG
<b>BE4F230-Q</b>  4 260049 685200	KNX quick binary input 4 fold, signal voltage 230V	4	Q79532	141,00	1

## 4 KNX System Devices

### 4.1 KNX Power Supplies



#### KNX power supply 640mA / 1280mA

- made in China
- with integrated choke
- bus voltage output via bus connectors
- separate auxiliary voltage output via screw terminals

product code / EAN	product designation	RU	order no.	EUR / pc.*	PG
<b>NT640-3</b>  4 260049 687075	KNX power supply 640mA	3	88409	119,00	1
<b>NT1280-4</b>  4 260049 688560	KNX power supply 1280mA (no picture)	4	88410	177,00	1

#### KNX power supply 640mA



- with integrated choke
- bus voltage output via bus connectors
- separate auxiliary voltage output via auxiliary connector

product code / EAN	product designation	RU	order no.	EUR / pc.*	PG
<b>NT640-43</b>  4 260049 687082	KNX power supply 640mA	4	88415	226,00	1

#### KNX power supply 320mA



- with integrated choke
- bus voltage output via bus connectors
- separate auxiliary voltage output via auxiliary connector

product code / EAN	product designation	RU	order no.	EUR / pc.*	PG
<b>NT320-43</b>  4 260049 687099	KNX power supply 320mA	4	88416	190,00	1

## 4.2 KNX Line Coupler / Backbone Coupler



### KNX line coupler / backbone coupler

- for connection of independent bus lines (for TP only)
- connection via bus connectors

product code / EAN	product designation	RU	order no.	EUR / pc.*	PG
<b>LK2-2</b>  4 260049 680298	KNX line coupler / backbone coupler	2	88502	259,00	1

## 4.3 KNX Interfaces



### KNX USB interface

- power supply via KNX bus

product code / EAN	product designation	RU	order no.	EUR / pc.*	PG
<b>COMUSB-REG-1</b>  4 260049 684906	KNX standard USB interface	1	89340	199,00	1



### KNX IP interface

- power supply via KNX bus

product code / EAN	product designation	RU	order no.	EUR / pc.*	PG
<b>COMIP-REG-1</b>  4 260049 687068	KNX standard IP interface	1	87341	209,00	1



### KNX bus connectors

- colours red / black for KNX bus
- colours yellow / white for auxiliary voltage
- package unit: 50 pieces

product code / EAN	product designation	RU	order no.	EUR / pc.*	PG
<b>AK-1</b>  4 260049 688041	KNX bus connector red/black (50 pcs.)	-	88322	28,00	1
<b>AK-2</b>  4 260049 688058	KNX bus connector yellow/white (50 pcs.)	-	88323	28,00	1

## 5 KNX Secure Sensors

### 5.1 KNX Secure Temperature Sensors



#### damp environment temperature sensor, KNX Secuce, KNX Standard and KNX quick

- with integrated KNX bus coupling unit, KNX quick included
- protection class IP65
- temperature range -55 to +125°C
- programmable via ETS with coding switches set to 0
- 4 independent switching thresholds (ETS prog. only)

product code / EAN	product designation	RU	order no.	EUR / pc.*	PG
<b>FRF99-FW</b>  4 260049 680915	KNX DIGITEMP damp environment temp. sensor	-	87120 SEC	155,00	2



#### indoor temperature sensor, KNX Secuce, KNX Standard and KNX quick

- with integrated KNX bus coupling unit, KNX quick included
- temperature range -55 to +125°C
- programmable via ETS with coding switches set to 0
- 4 independent switching thresholds (ETS prog. only)

product code / EAN	product designation	RU	order no.	EUR / pc.*	PG
<b>RTF99-FW</b>  4 260049 680908	KNX DIGITEMP indoor temperature sensor	-	87140 SEC	125,00	2



#### pipe mounting temperature sensor, KNX Secuce, KNX Standard and KNX quick

- with integrated KNX bus coupling unit, KNX quick included
- protection class IP65
- temperature range -55 to +125°C
- programmable via ETS with coding switches set to 0
- 4 independent switching thresholds (ETS prog. only)

product code / EAN	product designation	RU	order no.	EUR / pc.*	PG
<b>ANF99-FW</b>  4 260049 680922	KNX DIGITEMP pipe mounting temperature sensor	-	87130 SEC	155,00	2

**duct temperature sensor,  
KNX Secuce, KNX Standard and KNX quick**



- with integrated KNX bus coupling unit, KNX quick included
- protection class IP65
- temperature range -55 to +125°C
- programmable via ETS with coding switches set to 0
- 4 independent switching thresholds (ETS prog. only)

product code / EAN	product designation	RU	order no.	EUR / pc.*	PG
<b>KTF99-135-FW</b>  4 260049 680939	KNX DIGITEMP duct temperature sensor, sensor length 135mm	-	87101 SEC	163,00	2
<b>KTF99-240-FW</b>  4 260049 680946	KNX DIGITEMP duct temperature sensor, sensor length 240mm	-	87102 SEC	173,00	2
<b>KTF99-392-FW</b>  4 260049 680953	KNX DIGITEMP duct temperature sensor, sensor length 392mm	-	87103 SEC	183,00	2

**cable temperature sensor,  
KNX Secuce, KNX Standard and KNX quick**



- with integrated KNX bus coupling unit, KNX quick included
- temperature range -55 to +125°C
- programmable via ETS with coding switches set to 0
- 4 independent switching thresholds (ETS prog. only)

product code / EAN	product designation	RU	order no.	EUR / pc.*	PG
<b>LTF02-1m-FW</b>  4 260049 680960	KNX DIGITEMP cable temperature sensor, cable length 1m	-	87104 SEC	163,00	2
<b>LTF02-3m-FW</b>  4 260049 680977	KNX DIGITEMP cable temperature sensor, cable length 3m	-	87105 SEC	173,00	2

## 6 KNX Secure Smart Metering Products

### 6.1 KNX Electricity Meters



**EMU standard KNX DIN RAIL electricity meter,  
direct measurement,**

**KNX Secure, KNX Standard and KNX quick**

- unidirectional 3 phase electricity meter
- active energy, active power, voltage, current, power factor, 4 tariffs
- max. 75A per phase
- with integrated KNX bus coupling unit, KNX quick included
- price including calibration fee
- programmable via ETS with coding switches set to 0
- ETS application: EZD\_FW\_en\_de\_22.knxprod, type 8b

product code / EAN	product designation	RU	order no.	EUR / pc.*	PG
<b>EZ-EMU-DSTD-D-REG-FW</b> 	KNX electricity meter EMU standard, 3-phase, direct measurement	5	87765 SEC	289,00	4



**EMU superior KNX DIN RAIL electricity meter,  
direct measurement,**

**KNX Secure, KNX Standard and KNX quick**

- bidirectional 3 phase electricity meter
- active and reactive energy, active and reactive power, voltage, current, power factor, 4 tariffs
- max. 75A per phase
- 4 additional switching outputs
- with integrated KNX bus coupling unit, KNX quick included
- price including calibration fee
- programmable via ETS with coding switches set to 0
- ETS application: EZD\_FW\_en\_de\_22.knxprod, type 9a

product code / EAN	product designation	RU	order no.	EUR / pc.*	PG
<b>EZ-EMU-DSUP-D-REG-FW</b> 	KNX electricity meter EMU superior, 3-phase, direct measurement	5	87766 SEC	334,00	4



### EMU standard KNX DIN RAIL electricity meter,

for current transformers,

### KNX Secure, KNX Standard and KNX quick

- unidirectional 3 phase electricity meter
- active energy, active power, voltage, current, power factor, 4 tariffs
- current transformer ratio selectable for 1A (max. 4000/1) and 5A (max. 20000/5)
- with integrated KNX bus coupling unit, KNX quick included
- price including calibration fee
- programmable via ETS with coding switches set to 0
- ETS application: EZD\_FW\_en\_de\_22.knxprod, type 8b

product code / EAN	product designation	RU	order no.	EUR / pc.*	PG
<b>EZ-EMU-WSTD-D-REG-FW</b> 	KNX electricity meter EMU standard, 3-phase, for current transformers	5	87773 SEC	289,00	4



### EMU superior KNX DIN RAIL electricity meter,

for current transformers,

### KNX Secure, KNX Standard and KNX quick

- bidirectional 3 phase electricity meter
- active and reactive energy, active and reactive power, voltage, current, power factor, 4 tariffs
- current transformer ratio selectable for 1A (max. 4000/1) and 5A (max. 20000/5)
- 4 additional switching outputs
- with integrated KNX bus coupling unit, KNX quick included
- price including calibration fee
- programmable via ETS with coding switches set to 0
- ETS application: EZD\_FW\_en\_de\_22.knxprod, type 9a

product code / EAN	product designation	RU	order no.	EUR / pc.*	PG
<b>EZ-EMU-WSUP-D-REG-FW</b> 	KNX electricity meter EMU superior, 3-phase, for current transformers	5	87774 SEC	334,00	4



**EMU 1-phase KNX DIN RAIL electricity meter,  
KNX Secure, KNX Standard and KNX quick**

- unidirectional 1 phase electricity meter
- active energy, active power, voltage, current, power factor
- max. 40A
- KNX bus coupling unit in external 2RU DIN RAIL box,
- KNX quick included
- price including calibration fee
- programmable via ETS with coding switches set to 0
- ETS application: EZD\_FW\_en\_de\_22.knxprod, type 1a

product code / EAN	product designation	RU	order no.	EUR / pc.*	PG
<b>EZ-EMU-1PH-D-REG-FW</b>  4 260049 682490	KNX electricity meter EMU, 1-phase, direct measurement	3	87763 SEC	247,50	4



deviating picture

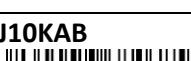
**eHZ KNX interface (also for 3.HZ meters),  
KNX Secure, KNX Standard and KNX quick**

- suitable for domestic elec. meters of type eHZ
- also suitable for domestic elec. meters of type 3.HZ
- specifically designed for the german market
- several optical reading heads available
- KNX quick included
- programmable via ETS with coding switches set to 0
- ETS application: EZD\_FW\_en\_de\_22.knxprod, type 4c/6c

product code / EAN	product designation	RU	order no.	EUR / pc.*	PG
<b>BCU-EZ-EHZ-RJ10-OPT1-D-REG-FW</b>  4 260049 682582	KNX eHZ interface with optical reading head	2	87798 SEC	159,00	4
<b>BCU-EZ-EHZ-RJ10-D-REG-FW</b>  4 260049 684722	KNX eHZ interface without optical reading head (for 87220, 87221, 87222)	2	87796 SEC	110,00	4

**accessories for eHZ KNX interface**



product code / EAN	product designation	RU	order no.	EUR / pc.*	PG
<b>OPTO-FL</b>  4 260049 684661	accessories for meters, optical reading head plain, with RJ10 connector,	-	87220	40,00	4
<b>OPTO-AD</b>  4 260049 684654	accessories for meters, adapter EasyMeter, for use with 87221	-	87211	15,00	4
<b>OPTO-RD</b>  4 260049 684678	accessories for meters, optical reading head round, with RJ10 connector, magnetic	-	87221	59,00	4
<b>RJ10KAB</b>  4 260049 684685	accessories for meters, datacable for meters with connector socket RJ10	-	87222	8,00	4



deviating picture

**discontinued**

**KNX interface Kamstrup, plug in module,  
KNX Secure, KNX Standard and KNX quick**

- suitable for domestic elec. meters of type Kamstrup OMNIPOWER and Kamstrup 162, 382, 351
- KNX quick included
- programmable via ETS with coding switches set to 0
- ETS application: EZD\_FW\_en\_de\_22.knxprod, type 4b/9a

product code / EAN	product designation	RU	order no.	EUR / pc.*	PG
<b>BCU-EZ-KAM-OMNI-D-FW</b> 	KNX interface Kamstrup, plug in module	-	87789	98,50	4



**discontinued**

**KNX interface Kamstrup, CCC module,  
KNX Standard und KNX quick**

- suitable for domestic elec. meters of type Kamstrup OMNIPOWER
- KNX quick included
- programmable via ETS with coding switches set to 0
- ETS application: EZD\_FW\_en\_de\_22.knxprod, type 4b/9a

product code / EAN	product designation	RU	order no.	EUR / pc.*	PG
<b>BCU-EZ-KAM-OMNI-CCC-D-FW</b> 	KNX interface Kamstrup, CCC module	-	87795	120,00	4

## 6.2 KNX Heat Meters

### Kamstrup ultrasonic heat meter Multical 603, KNX Secure, KNX Standard and KNX quick



- electronic heat meter
- accuracy class 2
- MID approval according to DIN EN 1434
- ultrasonic flow sensor
- calculator detachable from flow sensor, wall mounting set included
- two temperature sensors with 1.5m cable
- up to Qp 6 m³/h short direct sensor incl. nipple
- from Qp 10 m³/h pocket sensor incl. sensor pocket
- needs 230V supply
- including KNX bus coupling unit inside the meter
- price including calibration fee
- KNX quick included
- programmable via ETS with coding switches set to 0
- ETS application: WMZC\_FW\_en\_de\_22.knxprod, type 5
- other dimensions on request

product code		product designation						
KAM-MC603		KNX heat meter Kamstrup Multical 603						
nominal flow Qp	DN	length	thread	mount position	temp. range	order no.	EUR / pc.*	PG
0,6 m³/h	DN15	110mm	G3/4	beliebig	15-130°C	84801 SEC	486,34	5
0,6 m³/h	DN20	130mm	G1	beliebig	15-130°C	84802 SEC	488,99	5
1,5 m³/h	DN15	110mm	G3/4	beliebig	15-130°C	84803 SEC	486,34	5
1,5 m³/h	DN20	165mm	G1	beliebig	15-130°C	84804 SEC	533,95	5
1,5 m³/h	DN20	130mm	G1	beliebig	15-130°C	84805 SEC	488,99	5
1,5 m³/h	DN20	190mm	G1	beliebig	15-130°C	84806 SEC	533,95	5
2,5 m³/h	DN20	190mm	G1	beliebig	15-130°C	84808 SEC	533,95	5
3,5 m³/h	DN25	260mm	G1 1/4	beliebig	15-130°C	84809 SEC	815,64	5
6 m³/h	DN25	260mm	G1 1/4	beliebig	15-130°C	84810 SEC	839,44	5
10 m³/h	DN40	300mm	G2	beliebig	15-130°C	84811 SEC	1090,72	5
15 m³/h	DN50	270mm	Flansch	beliebig	15-130°C	84812 SEC	1379,02	5
25 m³/h	DN65	300mm	Flansch	beliebig	15-130°C	84813 SEC	1798,52	5
40 m³/h	DN80	300mm	Flansch	beliebig	15-130°C	84814 SEC	2086,57	5
60 m³/h	DN100	360mm	Flansch	beliebig	15-130°C	84815 SEC	2988,51	5
100 m³/h	DN100	360mm	Flansch	beliebig	15-130°C	84816 SEC	4095,44	5
100 m³/h	DN125	350mm	Flansch	beliebig	15-130°C	84817 SEC	4399,61	5
150 m³/h	DN150	500mm	Flansch	beliebig	15-139°C	84818 SEC	6364,11	5



### Kamstrup ultrasonic heat and cooling meter Multical 603, KNX Secure, KNX Standard and KNX quick

- electronic heat and cooling meter
- accuracy class 2
- MID approval according to DIN EN 1434
- ultrasonic flow sensor
- calculator detachable from flow sensor,  
wall mounting set included
- two temperature sensors with 1.5m cable
- up to Qp 6 m<sup>3</sup>/h short direct sensor incl. nipple
- from Qp 10 m<sup>3</sup>/h pocket sensor incl. sensor pocket
- needs 230V supply
- including KNX bus coupling unit inside the meter
- price including calibration fee
- KNX quick included
- programmable via ETS with coding switches set to 0
- ETS application: WMZC\_FW\_en\_de\_22.knxprod, type 6
- other dimensions on request

product code		product designation						
<b>KAM-MC603</b>		KNX heat and cooling meter Kamstrup Multical 603						
nominal flow Qp	DN	length	thread	mount position	temp. range	order no.	EUR / pc.*	PG
0,6 m <sup>3</sup> /h	DN15	110mm	G3/4	beliebig	15-130°C	84801 SEC	486,34	5
0,6 m <sup>3</sup> /h	DN20	130mm	G1	beliebig	15-130°C	84802 SEC	488,99	5
1,5 m <sup>3</sup> /h	DN15	110mm	G3/4	beliebig	15-130°C	84803 SEC	486,34	5
1,5 m <sup>3</sup> /h	DN20	165mm	G1	beliebig	15-130°C	84804 SEC	533,95	5
1,5 m <sup>3</sup> /h	DN20	130mm	G1	beliebig	15-130°C	84805 SEC	488,99	5
1,5 m <sup>3</sup> /h	DN20	190mm	G1	beliebig	15-130°C	84806 SEC	533,95	5
2,5 m <sup>3</sup> /h	DN20	190mm	G1	beliebig	15-130°C	84808 SEC	533,95	5
3,5 m <sup>3</sup> /h	DN25	260mm	G1 1/4	beliebig	15-130°C	84809 SEC	815,64	5
6 m <sup>3</sup> /h	DN25	260mm	G1 1/4	beliebig	15-130°C	84810 SEC	839,44	5
10 m <sup>3</sup> /h	DN40	300mm	G2	beliebig	15-130°C	84811 SEC	1090,72	5
15 m <sup>3</sup> /h	DN50	270mm	Flansch	beliebig	15-130°C	84812 SEC	1379,02	5
25 m <sup>3</sup> /h	DN65	300mm	Flansch	beliebig	15-130°C	84813 SEC	1798,52	5
40 m <sup>3</sup> /h	DN80	300mm	Flansch	beliebig	15-130°C	84814 SEC	2086,57	5
60 m <sup>3</sup> /h	DN100	360mm	Flansch	beliebig	15-130°C	84815 SEC	2988,51	5
100 m <sup>3</sup> /h	DN100	360mm	Flansch	beliebig	15-130°C	84816 SEC	4095,44	5
100 m <sup>3</sup> /h	DN125	350mm	Flansch	beliebig	15-130°C	84817 SEC	4399,61	5
150 m <sup>3</sup> /h	DN150	500mm	Flansch	beliebig	15-139°C	84818 SEC	6364,11	5

## Kamstrup ultrasonic cooling meter Multical 603, KNX Secure, KNX Standard and KNX quick



- electronic cooling meter
- accuracy class 2
- MID approval according to DIN EN 1434
- ultrasonic flow sensor
- calculator detachable from flow sensor, wall mounting set included
- two temperature sensors with 1.5m cable
- up to Qp 6 m³/h short direct sensor incl. nipple
- from Qp 10 m³/h pocket sensor incl. sensor pocket
- needs 230V supply
- including KNX bus coupling unit inside the meter
- price including calibration fee
- KNX quick included
- programmable via ETS with coding switches set to 0
- ETS application: WMZC\_FW\_en\_de\_22.knxprod, type 6
- other dimensions on request

product code		product designation						
<b>KAM-MC603</b>		KNX cooling meter Kamstrup Multical 603						
nominal flow Qp	DN	length	thread	mount position	temp. range	order no.	EUR / pc.*	PG
1,5 m³/h	DN15	110mm	G3/4	beliebig	1-50°C	84843 SEC	486,34	5
1,5 m³/h	DN20	130mm	G1	beliebig	1-50°C	84845 SEC	488,99	5
1,5 m³/h	DN20	190mm	G1	beliebig	1-50°C	84846 SEC	533,95	5
2,5 m³/h	DN20	190mm	G1	beliebig	1-50°C	84848 SEC	533,95	5
3,5 m³/h	DN25	260mm	G1 1/4	beliebig	1-50°C	84849 SEC	815,64	5
6 m³/h	DN25	260mm	G1 1/4	beliebig	1-50°C	84850 SEC	839,44	5
10 m³/h	DN40	300mm	G2	beliebig	1-50°C	84851 SEC	1090,72	5
15 m³/h	DN50	270mm	Flansch	beliebig	1-50°C	84852 SEC	1379,02	5
25 m³/h	DN65	300mm	Flansch	beliebig	1-50°C	84853 SEC	1798,52	5
40 m³/h	DN80	300mm	Flansch	beliebig	1-50°C	84854 SEC	2086,57	5
60 m³/h	DN100	360mm	Flansch	beliebig	1-50°C	84855 SEC	2988,51	5
100 m³/h	DN100	360mm	Flansch	beliebig	1-50°C	84856 SEC	4095,44	5
100 m³/h	DN125	350mm	Flansch	beliebig	1-50°C	84857 SEC	4399,61	5



### Kamstrup ultrasonic heat meter Multical 403, KNX Secure, KNX Standard and KNX quick

- electronic heat meter
- accuracy class 2
- MID approval according to DIN EN 1434
- ultrasonic flow sensor
- compact meter, calculator not detachable
- two temperature sensors with 1.5m cable
- up to Qp 6 m<sup>3</sup>/h short direct sensor incl. nipple
- from Qp 10 m<sup>3</sup>/h pocket sensor incl. sensor pocket
- needs 230V supply
- including KNX bus coupling unit inside the meter
- price including calibration fee
- KNX quick included
- programmable via ETS with coding switches set to 0
- ETS application: WMZC\_FW\_en\_de\_22.knxprod, type 5

product code		product designation						
<b>KAM-MC403</b>		KNX heat meter Kamstrup Multical 403						
nominal flow Qp	DN	length	thread	mount position	temp. range	order no.	EUR / pc.*	PG
0,6 m <sup>3</sup> /h	DN15	110mm	G3/4	any	15-130°C	84701 SEC	365,99	5
0,6 m <sup>3</sup> /h	DN20	190mm	G1	any	15-130°C	84702 SEC	373,92	5
1,5 m <sup>3</sup> /h	DN15	110mm	G3/4	any	15-130°C	84703 SEC	365,99	5
1,5 m <sup>3</sup> /h	DN15	165mm	G3/4	any	15-130°C	84704 SEC	373,92	5
1,5 m <sup>3</sup> /h	DN20	130mm	G1	any	15-130°C	84705 SEC	373,92	5
1,5 m <sup>3</sup> /h	DN20	190mm	G1	any	15-130°C	84706 SEC	373,92	5
2,5 m <sup>3</sup> /h	DN20	130mm	G1	any	15-130°C	84707 SEC	373,92	5
2,5 m <sup>3</sup> /h	DN20	190mm	G1	any	15-130°C	84708 SEC	373,92	5
3,5 m <sup>3</sup> /h	DN25	260mm	G1 1/4	any	15-130°C	84709 SEC	556,43	5
6 m <sup>3</sup> /h	DN25	260mm	G1 1/4	any	15-130°C	84710 SEC	564,36	5
10 m <sup>3</sup> /h	DN40	300mm	G2	any	15-130°C	84711 SEC	873,83	5
6 m <sup>3</sup> /h	DN25	260mm	flange	any	15-130°C	84712 SEC	781,25	5
10 m <sup>3</sup> /h	DN40	300mm	flange	any	15-130°C	84713 SEC	939,95	5
15 m <sup>3</sup> /h	DN50	270mm	flange	any	15-130°C	84714 SEC	1045,75	5



## Kamstrup ultrasonic heat and cooling meter Multical 403, KNX Secure, KNX Standard and KNX quick

- electronic heat and cooling meter
- accuracy class 2
- MID approval according to DIN EN 1434
- ultrasonic flow sensor
- compact meter, calculator not detachable
- two temperature sensors with 1.5m cable
- up to Qp 6 m<sup>3</sup>/h short direct sensor incl. nipple
- from Qp 10 m<sup>3</sup>/h pocket sensor incl. sensor pocket
- needs 230V supply
- including KNX bus coupling unit inside the meter
- price including calibration fee
- KNX quick included
- programmable via ETS with coding switches set to 0
- ETS application: WMZC\_FW\_en\_de\_22.knxprod, type 6

product code		product designation						
<b>KAM-MC403</b>		KNX heat and cooling meter Kamstrup Multical 403						
nominal flow Qp	DN	length	thread	mount position	temp. range.	order no.	EUR / pc.*	PG
0,6 m <sup>3</sup> /h	DN15	110mm	G3/4	any	15-130°C	84721 SEC	365,99	5
0,6 m <sup>3</sup> /h	DN20	190mm	G1	any	15-130°C	84722 SEC	373,92	5
<hr/>								
1,5 m <sup>3</sup> /h	DN15	110mm	G3/4	any	15-130°C	84723 SEC	365,99	5
1,5 m <sup>3</sup> /h	DN15	165mm	G3/4	any	15-130°C	84724 SEC	373,92	5
1,5 m <sup>3</sup> /h	DN20	130mm	G1	any	15-130°C	84725 SEC	373,92	5
1,5 m <sup>3</sup> /h	DN20	190mm	G1	any	15-130°C	84726 SEC	373,92	5
<hr/>								
2,5 m <sup>3</sup> /h	DN20	130mm	G1	any	15-130°C	84727 SEC	373,92	5
2,5 m <sup>3</sup> /h	DN20	190mm	G1	any	15-130°C	84728 SEC	373,92	5
3,5 m <sup>3</sup> /h	DN25	260mm	G1 1/4	any	15-130°C	84729 SEC	556,43	5
6 m <sup>3</sup> /h	DN25	260mm	G1 1/4	any	15-130°C	84730 SEC	564,36	5
10 m <sup>3</sup> /h	DN40	300mm	G2	any	15-130°C	84731 SEC	873,83	5
<hr/>								
6 m <sup>3</sup> /h	DN25	260mm	flange	any	15-130°C	84732 SEC	781,25	5
10 m <sup>3</sup> /h	DN40	300mm	flange	any	15-130°C	84733 SEC	939,95	5
15 m <sup>3</sup> /h	DN50	270mm	flange	any	15-130°C	84734 SEC	1045,75	5



**Kamstrup ultrasonic cooling meter Multical 403,  
KNX Secure, KNX Standard and KNX quick**

- electronic cooling meter
- accuracy class 2
- MID approval according to DIN EN 1434
- ultrasonic flow sensor
- compact meter, calculator not detachable
- two temperature sensors with 1.5m cable
- up to Qp 6 m<sup>3</sup>/h short direct sensor incl. nipple
- from Qp 10 m<sup>3</sup>/h pocket sensor incl. sensor pocket
- needs 230V supply
- including KNX bus coupling unit inside the meter
- price including calibration fee
- KNX quick included
- programmable via ETS with coding switches set to 0
- ETS application: WMZC\_FW\_en\_de\_22.knxprod, type 6

product code		product designation						
<b>KAM-MC403</b>		KNX cooling meter Kamstrup Multical 403						
nominal flow Qp	DN	length	thread	mount position	temp. range	order no.	EUR / pc.*	PG
0,6 m <sup>3</sup> /h	DN20	190mm	G1	any	1-50°C	84742 SEC	373,92	5
1,5 m <sup>3</sup> /h	DN15	110mm	G3/4	any	1-50°C	84743 SEC	365,99	5
1,5 m <sup>3</sup> /h	DN15	165mm	G3/4	any	1-50°C	84744 SEC	373,92	5
1,5 m <sup>3</sup> /h	DN20	130mm	G1	any	1-50°C	84745 SEC	373,92	5
1,5 m <sup>3</sup> /h	DN20	190mm	G1	any	1-50°C	84746 SEC	373,92	5
2,5 m <sup>3</sup> /h	DN20	130mm	G1	any	1-50°C	84747 SEC	373,92	5
2,5 m <sup>3</sup> /h	DN20	190mm	G1	any	1-50°C	84748 SEC	373,92	5
3,5 m <sup>3</sup> /h	DN25	260mm	G1 1/4	any	1-50°C	84749 SEC	556,43	5
6 m <sup>3</sup> /h	DN25	260mm	G1 1/4	any	1-50°C	84750 SEC	564,36	5
10 m <sup>3</sup> /h	DN40	300mm	G2	any	1-50°C	84751 SEC	873,83	5
6 m <sup>3</sup> /h	DN25	260mm	flange	any	1-50°C	84752 SEC	781,25	5
10 m <sup>3</sup> /h	DN40	300mm	flange	any	1-50°C	84753 SEC	939,95	5
15 m <sup>3</sup> /h	DN50	270mm	flange	any	1-50°C	84754 SEC	1045,75	5



**Kamstrup solar heat meter,  
KNX Secure, KNX Standard and KNX quick**

- electronic energy calculator for heat
- solar impulse unit, suitable for glycol
- correction value not adjustable
- needs 230V supply
- including KNX bus coupling unit inside the meter
- price including calibration fee
- KNX quick included
- programmable via ETS with coding switches set to 0
- ETS application: WMZC\_FW\_en\_de\_22.knxprod, type 5

product code		product designation						
<b>KAM-MC603</b>		KNX heat meter Kamstrup Multical 603 solar						
nominal flow Qp	DN	length	thread	mount position	temp. range	order no.	EUR / pc.*	PG
1,5 m <sup>3</sup> /h	DN15	165mm	G3/4	horizontal	0-120°C	84416 SEC	767,00	5
2,5 m <sup>3</sup> /h	DN20	190mm	G1	horizontal	0-120°C	84417 SEC	771,00	5
3,5 m <sup>3</sup> /h	DN25	260mm	G1 1/4	horizontal	0-120°C	84418 SEC	976,00	5
6 m <sup>3</sup> /h	DN25	260mm	G1 1/4	horizontal	0-120°C	84419 SEC	976,00	5



**ZENNER heat meter Zelsius C5,  
KNX Secure, KNX Standard and KNX quick**

- electronic heat meter
- single jet flow sensor
- also available with compact measuring capsule
- including KNX bus coupling unit in separate, wall mt. box
- price including calibration fee
- KNX quick included
- programmable via ETS with coding switches set to 0
- ETS application: WMZC\_FW\_en\_de\_22.knxprod, type 5/6

product code		product designation						
ZEN-ZELC5		KNX heat meter Zenner Zelsius C5						
nominal flow Qp	DN	length	thread	mount position	temp. range.	order no.	EUR / pc.*	PG
0,6 m³/h	DN15	110mm	G3/4	any	10-90°C	85951-1SEC	329,00	5
1,5 m³/h	DN15	110mm	G3/4	any	10-90°C	85952-1SEC	329,00	5
2,5 m³/h	DN20	130mm	G1	any	10-90°C	85953-1SEC	339,00	5
0,6 m³/h	DN15	EAS/EAT ISTA or 2" base			10-90°C	84954 SEC	329,00	5
1,5 m³/h	DN15	EAS/EAT ISTA or 2" base			10.90°C	84955 SEC	329,00	5
2,5 m³/h	DN20	EAS/EAT ISTA or 2" base			10-90°C	84956 SEC	339,00	5



deviating picture

**KNX interfaces without meters,  
KNX Secure, KNX Standard and KNX quick**

- internal KNX bus coupling unit
- KNX quick included
- programmable via ETS with coding switches set to 0
- ETS application: WMZC\_FW\_en\_de\_22.knxprod, type 5/6
- operation is only guaranteed with meters from Lingg&Janke

product code	product designation	order no.	EUR / pc.*	PG
<b>BCU-WMZ-KAM-MC603-C-FW</b>	KNX interface for Kamstrup MC403/MC603 heat meters	87970 SEC	110,00	5



**KNX interfaces without meters,  
KNX Secure, KNX Standard and KNX quick**

- KNX bus coupling unit in separate, wall mounted box
- KNX quick included
- programmable via ETS with coding switches set to 0
- ETS application: WMZC\_FW\_en\_de\_22.knxprod, type 5
- operation is only guaranteed with meters from Lingg&Janke

product code	product designation	order no.	EUR / pc.*	PG
<b>BCU-WMZ-ZEN-ZELC5-C-FW</b>	KNX interface for Zenner Zelsius C5 heat meters	87971 SEC	120,00	5

no picture

**mounting nut for Kamstrup heat meter sensors**

- connection (external thread) 1/2"
- sensor dimensions 5,0 mm x M10

product code	product designation	order no.	EUR / pc.*	PG
<b>KAM-MW</b>	mounting nut for Kamstrup heat meter sens.	85917	15,00	5



**mounting sets for heat meter sensors M10**

- consisting of 3 ball valves incl. accessories
- sensor dimensions 5,0 – 5,2 mm x M10

Produktname	product designation	order no.	EUR / pc.*	PG
<b>KUG-SET</b>	mounting set for heat meter 110mm, G3/4"	85980	115,00	5
<b>KUG-SET</b>	mounting set for heat meter 130mm, G1"	85981	132,00	5
<b>KUG-SET</b>	mounting set for heat meter 190mm, G1"	85982	132,00	5
<b>KUG-SET</b>	mounting set for ht. meter 260mm, G1 1/4"	85983	196,00	5



**ball valves sets for heat meter sensors M10**

- connection (internal thread) 1/2", 3/4", 1"
- sensor dimensions 5,0 – 5,2 mm x M10

Produktname	product designation	order no.	EUR / pc.*	PG
<b>KUG-MW</b>	ball valve 1/2" for heat meter sensor M10	85997	19,00	5
<b>KUG-MW</b>	ball valve 3/4" for heat meter sensor M10	85998	26,00	5
<b>KUG-MW</b>	ball valve 1" for heat meter sensor M10	85999	49,00	5

## 6.3 KNX Water Meters



### GWF single jet water meter UNICoder MP, KNX Secure, KNX Standard and KNX quick

- single jet water meter for cold water
- with absolute encoder register
- MID approval
- including KNX bus coupling unit in separate, wall mt. box
- price including calibration fee
- KNX quick included
- programmable via ETS with coding switches set to 0
- ETS application: KWZC\_FW\_en\_de\_12.knxprod, type 2

product code		product designation						
<b>GWF-UNICO</b>		KNX cold water meter GWF UNICoder MP						
nominal flow Q3	DN	length	thread	mount position	max. temp.	order no.	EUR / pc.*	PG
2,5 m³/h	DN15	110mm	G3/4	any	30°C	85500 SEC	199,00	5
2,5 m³/h	DN20	130mm	G1	any	30°C	85501 SEC	199,00	5
4 m³/h	DN20	130mm	G1	any	30°C	85502 SEC	199,00	5



### GWF single jet water meter UNICoder MP, KNX Secure, KNX Standard and KNX quick

- single jet water meter for warm water
- with absolute encoder register
- MID approval
- including KNX bus coupling unit in separate, wall mt. box
- price including calibration fee
- KNX quick included
- programmable via ETS with coding switches set to 0
- ETS application: KWZC\_FW\_en\_de\_12.knxprod, type 2

product code		product designation						
<b>GWF-UNICO</b>		KNX warm water meter GWF UNICoder MP						
nominal flow Q3	DN	length	thread	mount position	max. temp.	order no.	EUR / pc.*	PG
2,5 m³/h	DN15	110mm	G3/4	any	90°C	85503 SEC	199,00	5
2,5 m³/h	DN20	130mm	G1	any	90°C	85504 SEC	199,00	5
4 m³/h	DN20	130mm	G1	any	90°C	85505 SEC	199,00	5



**GWF multi jet water meter MTKcoder MP,  
KNX Secure, KNX Standard and KNX quick**

- multi jet water meter for cold water
- super dry-dial
- with absolute encoder register
- MID approval
- including KNX bus coupling unit in separate, wall mt. box
- price including calibration fee
- KNX quick included
- programmable via ETS with coding switches set to 0
- ETS application: KWZC\_FW\_en\_de\_12.knxprod, type 2

product code		product designation						
<b>GWF-MTK</b>		KNX cold water meter GWF MTKcoder MP						
nominal flow Q3	DN	length	thread	mount position	max. temp.	order no.	EUR / pc.*	PG
4 m³/h	DN20	190mm	G1	horizontal	30°C	85521 SEC	445,00	5
6,3 m³/h	DN25	260mm	G1 1/4	horizontal	30°C	85523 SEC	486,00	5
10 m³/h	DN32	260mm	G1 1/2	horizontal	30°C	85525 SEC	492,00	5
16 m³/h	DN40	300mm	G2	horizontal	30°C	85526 SEC	623,00	5
25 m³/h	DN50	300mm	G2 3/8	horizontal	30°C	85527 SEC	695,00	5



**GWF multi jet water meter MTWcoder MP,  
KNX Secure, KNX Standard and KNX quick**

- multi jet water meter for warm water
- super dry-dial
- with absolute encoder register
- MID approval
- including KNX bus coupling unit in separate, wall mt. box
- price including calibration fee
- KNX quick included
- programmable via ETS with coding switches set to 0
- ETS application: KWZC\_FW\_en\_de\_12.knxprod, type 2

product code		product designation						
<b>GWF-MTW</b>		KNX warm water meter GWF MTWcoder MP						
nominal flow Q3	DN	length	thread	mount position	max. temp.	order no.	EUR / pc.*	PG
4 m³/h	DN20	190mm	G1	horizontal	90°C	85541 SEC	445,00	5
6,3 m³/h	DN25	260mm	G1 1/4	horizontal	90°C	85543 SEC	486,00	5
10 m³/h	DN32	260mm	G1 1/2	horizontal	90°C	85545 SEC	492,00	5
16 m³/h	DN40	300mm	G2	horizontal	90°C	85546 SEC	623,00	5
25 m³/h	DN50	300mm	G2 3/8	horizontal	90°C	85547 SEC	695,00	5


**GWF multi jet water meter MTKcoder MP-V,**
**KNX Secure, KNX Standard and KNX quick**

- multi jet water meter for cold water
- super dry-dial
- with absolute encoder register
- MID approval
- including KNX bus coupling unit in separate, wall mt. box
- price including calibration fee
- KNX quick included
- programmable via ETS with coding switches set to 0
- ETS application: KWZC\_FW\_en\_de\_12.knxprod, type 2

product code		product designation						
<b>GWF-MTK</b>		KNX cold water meter GWF MTKcoder MP-V						
nominal flow Q3	DN	length	thread	mount position	max. temp.	order no.	EUR / pc.*	PG
4 m³/h	DN20	105mm	G1	vertical, up	30°C	85561 SEC	582,00	5
6,3 m³/h	DN25	150mm	G1 1/4	vertical, up	30°C	85562 SEC	644,00	5
10 m³/h	DN32	150mm	G1 1/2	vertical, up	30°C	85563 SEC	654,00	5
16 m³/h	DN40	200mm	G2	vertical, up	30°C	85564 SEC	792,00	5
4 m³/h	DN20	105mm	G1	vertical, dn	30°C	85566 SEC	582,00	5
6,3 m³/h	DN25	150mm	G1 1/4	vertical, dn	30°C	85567 SEC	644,00	5
10 m³/h	DN32	150mm	G1 1/2	vertical, dn	30°C	85568 SEC	654,00	5
16 m³/h	DN40	200mm	G2	vertical, dn	30°C	85569 SEC	792,00	5



deviating picture

**GWF multi jet water meter MTWcoder MP-V,  
KNX Secure, KNX Standard and KNX quick**

- multi jet water meter for warm water
- super dry-dial
- with absolute encoder register
- MID approval
- including KNX bus coupling unit in separate, wall mt. box
- price including calibration fee
- KNX quick included
- programmable via ETS with coding switches set to 0
- ETS application: KWZC\_FW\_en\_de\_12.knxprod, type 2

product code		product designation						
<b>GWF-MTW</b>		KNX warm water meter GWF MTWcoder MP-V						
nominal flow Q3	DN	length	thread	mount position	max. temp.	order no.	EUR / pc.*	PG
4 m³/h	DN20	105mm	G1	vertical, up	90°C	85580 SEC	582,00	5
6,3 m³/h	DN25	150mm	G1 1/4	vertical, up	90°C	85581 SEC	644,00	5
10 m³/h	DN32	150mm	G1 1/2	vertical, up	90°C	85582 SEC	654,00	5
16 m³/h	DN40	200mm	G2	vertical, up	90°C	85583 SEC	792,00	5
4 m³/h	DN20	105mm	G1	vertical, dn	90°C	85584 SEC	582,00	5
6,3 m³/h	DN25	150mm	G1 1/4	vertical, dn	90°C	85585 SEC	644,00	5
10 m³/h	DN32	150mm	G1 1/2	vertical, dn	90°C	85586 SEC	654,00	5
16 m³/h	DN40	200mm	G2	vertical, dn	90°C	85587 SEC	792,00	5



**Andrae single jet water meter, household water meter,  
KNX Secure, KNX Standard and KNX quick**

- single jet water meter for cold water
- MID approval
- including KNX bus coupling unit in separate, wall mt. box
- price including calibration fee
- ETS application: KWZC\_FW\_en\_de\_12.knxprod, type 2

product code		product designation						
<b>AND-EAX</b>		KNX cold water meter Andrae MTK-EAX						
nominal flow Q3	DN	length	thread	mount position	max. temp.	order no.	EUR / pc.*	PG
2,5 m³/h	DN15	80mm	G3/4	horizontal	30°C	85101 SEC	215,00	5
2,5 m³/h	DN15	110mm	G3/4	horizontal	30°C	85102 SEC	215,00	5
4 m³/h	DN20	130mm	G1	horizontal	30°C	85103 SEC	215,00	5



**Andrae single jet water meter, household water meter,  
KNX Secure, KNX Standard and KNX quick**

- single jet water meter for warm water
- MID approval
- including KNX bus coupling unit in separate, wall mt. box
- price including calibration fee
- ETS application: KWZC\_FW\_en\_de\_12.knxprod, type 2

product code		product designation						
<b>AND-EAX</b>		KNX warm water meter Andrae MTW-EAX						
nominal flow Q3	DN	length	thread	mount position	max. temp.	order no.	EUR / pc.*	PG
2,5 m³/h	DN15	80mm	G3/4	horizontal	90°C	85111 SEC	215,00	5
2,5 m³/h	DN15	110mm	G3/4	horizontal	90°C	85112 SEC	215,00	5
4 m³/h	DN20	130mm	G1	horizontal	90°C	85113 SEC	215,00	5



**Andrae multi jet water meter, MTK-HWX,  
KNX Secure, KNX Standard and KNX quick**

- multi jet water meter for cold water
- MID approval
- including KNX bus coupling unit in separate, wall mt. box
- price including calibration fee
- ETS application: KWZC\_FW\_en\_de\_12.knxprod, type 2

product code		product designation						
<b>AND-HWX</b>		KNX cold water meter Andrae MTK-HWX						
nominal flow Q3	DN	length	thread	mount position	max. temp.	order no.	EUR / pc.*	PG
4 m³/h	DN20	190mm	G1	horizontal	30°C	85140 SEC	246,00	5
10 m³/h	DN25	260mm	G1 1/4	horizontal	30°C	85141 SEC	276,00	5
16 m³/h	DN40	300mm	G2	horizontal	30°C	85142 SEC	364,00	5



**Andrae multi jet water meter, MTW-HWX,  
KNX Secure, KNX Standard and KNX quick**

- multi jet water meter for warm water
- MID approval
- including KNX bus coupling unit in separate, wall mt. box
- price including calibration fee
- ETS application: KWZC\_FW\_en\_de\_12.knxprod, type 2

product code		product designation						
<b>AND-HWX</b>		KNX warm water meter Andrae MTW-HWX						
nominal flow Q3	DN	length	thread	mount position	max. temp.	order no.	EUR / pc.*	PG
4 m³/h	DN20	190mm	G1	horizontal	90°C	85150 SEC	259,00	5
10 m³/h	DN25	260mm	G1 1/4	horizontal	90°C	85151 SEC	288,00	5
16 m³/h	DN40	300mm	G2	horizontal	90°C	85152 SEC	374,00	5



**Kamstrup ultrasonic water meter, flowIQ 3100,  
KNX Secure, KNX Standard and KNX quick**

- electronic water meter for cold water
- ultrasonic flow sensor
- MID approval
- including KNX bus coupling unit in separate, wall mt. box
- price including calibration fee
- ETS application: KWZC\_FW\_en\_de\_12.knxprod, type 5

deviating picture

product code		product designation						
<b>KAM-FIQ3100</b>		KNX cold water meter Kamstrup flowIQ 3100						
nominal flow Q3	DN	length	thread	mount position	max. temp.	order no.	EUR / pc.*	PG
2,5 m³/h		190mm	G1	any	30°C	85601 SEC	568,50	5
4 m³/h		175mm	G1 1/4	any	30°C	85602 SEC	802,41	5
4 m³/h		260mm	G1 1/4	any	30°C	85603 SEC	825,41	5
6,3 m³/h		260mm	G1 1/4	any	30°C	85604 SEC	863,82	5
6,3 m³/h		260mm	G1 1/2	any	30°C	85605 SEC	891,42	5
10 m³/h		260mm	G1 1/4	any	30°C	85606 SEC	1039,08	5
10 m³/h		260mm	G1 1/2	any	30°C	85607 SEC	1063,35	5
10 m³/h		300mm	G2	any	30°C	85608 SEC	1115,67	5
16 m³/h		300mm	G2	any	30°C	85609SEC	1184,67	5



## M-Bus communication modules for water meters

- for retrofitting of existing water meters
- have to be programmed with Relay Micro-Master 87999
- required for corresponding KNX interface
- 

product code	product designation	order no.	EUR / pc.*	PG
<b>MBUS-ITR-CYBLE</b>	M-Bus communication module for Itron water meters (Cyble module)	85830	151,00	5



## M-Bus Micro-Master USB

- parameterisation tool for M-Bus meters
- power supply via USB

product code	product designation	RU	order no.	EUR / pc.*	PG
<b>MBUS-MIC-MSTR</b>	M-Bus Micro-Master USB	-	87999	298,00	5



**KNX interfaces without meters,  
KNX Secure, KNX Standard and KNX quick**

- KNX bus coupling unit in separate, wall mounted box
- ETS application: KWZC\_FW\_en\_de\_12.knxprod
- operation is only guaranteed with meters from Lingg&Janke

product code	product designation	order no.	EUR / pc.*	PG
<b>BCU-KWZ-AND-WZGM-C-FW</b>	KNX interface for Andrae water meters	87925 SEC	120,00	5
<b>BCU-KWZ-GWF-MBUS-C-FW</b>	KNX interface for GWF water meters	87929 SEC	120,00	5
<b>BCU-KWZ-ITR-RF1c-C-FW</b>	KNX interface for Itron water meters with Cyble module	87981 SEC	120,00	5

## 6.4 KNX Gas Meters



deviating picture

### Pipersberg single adapter gas meter BK-Gx Ac, KNX Secure, KNX Standard and KNX quick

- diaphragm gas meter
- with Absolute ENCODER index
- including KNX interface in separate, wall mounted box
- prices including calibration fee
- other dimensions on request
- KNX quick included
- programmable via ETS with coding switches set to 0
- ETS application: GZC\_FW\_en\_de\_14.knxprod, type 2

product code	product designation	measuring range	order no.	EUR / pc.*	PG
<b>BK-G2,5 Ac SEC</b>	KNX Secure gas meter, single adapter, Pipersberg	0,025 – 4 m <sup>3</sup> /h	85841	372,00	5
<b>BK-G4 Ac SEC</b>	KNX Secure gas meter, single adapter, Pipersberg	0,04 – 6 m <sup>3</sup> /h	85842	372,00	5
<b>BK-G6 Ac SEC</b>	KNX Secure gas meter, single adapter, Pipersberg	0,06 – 10 m <sup>3</sup> /h	85843	446,00	5
<b>BK-G10 Ac SEC</b>	KNX Secure gas meter, single adapter, Pipersberg	0,10 – 16 m <sup>3</sup> /h	85844	814,00	5
<b>BK-G16 Ac SEC</b>	KNX Secure gas meter, single adapter, Pipersberg	0,16 – 25 m <sup>3</sup> /h	85845	932,00	5
<b>BK-G25 Ac SEC</b>	KNX Secure gas meter, single adapter, Pipersberg	0,25 – 40 m <sup>3</sup> /h	85846	1259,00	5



deviating picture

**Pipersberg double adapter gas meter BK-Gx Ac,  
KNX Secure, KNX Standard and KNX quick**

- diaphragm gas meter
- with Absolute ENCODER index
- including KNX interface in separate, wall mounted box
- prices including calibration fee
- other dimensions on request
- KNX quick included
- programmable via ETS with coding switches set to 0
- ETS application: GZC\_FW\_en\_de\_14.knxprod, type 2

product code	product designation	measuring range	order no.	EUR / pc.*	PG
<b>BK-G2,5 Ac SEC</b>	KNX Secure gas meter, double adapter, Pipersberg	0,025 – 4 m <sup>3</sup> /h	85851	372,00	5
<b>BK-G4 Ac SEC</b>	KNX Secure gas meter, double adapter, Pipersberg	0,04 – 6 m <sup>3</sup> /h	85852	372,00	5
<b>BK-G6 Ac SEC</b>	KNX Secure gas meter, double adapter, Pipersberg	0,06 – 10 m <sup>3</sup> /h	85853	446,00	5
<b>BK-G10 Ac SEC</b>	KNX Secure gas meter, double adapter, Pipersberg	0,10 – 16 m <sup>3</sup> /h	85854	814,00	5
<b>BK-G16 Ac SEC</b>	KNX Secure gas meter, double adapter, Pipersberg	0,16 – 25 m <sup>3</sup> /h	85855	932,00	5
<b>BK-G25 Ac SEC</b>	KNX Secure gas meter, double adapter, Pipersberg	0,25 – 40 m <sup>3</sup> /h	85856	1259,00	5



**KNX interfaces without meters,  
KNX Secure, KNX Standard and KNX quick**

- KNX bus coupling unit in separate, wall mounted box
- operation is only guaranteed with meters from Lingg&Janke
- KNX quick included
- programmable via ETS with coding switches set to 0
- ETS application: GZC\_FW\_en\_de\_14.knxprod, type 2

product code	product designation	order no.	EUR / pc.*	PG
<b>BCU-GZ-ELS-GXA-C-FW</b>	KNX interface for Elster gas meters with Absolute ENCODER AE2/AE3/AE5 including Elster communication module.	87980	175,00	5
<b>BCU-GZ-ITR-RF1c-C-FW</b>	KNX interface for Itron gas meters with Cyble module	87981	120,00	5



**M-Bus communication modules for gas meters**

- for retrofitting of existing gas meters
- have to be programmed with Relay Micro-Master 87999
- required for correspondig KNX interface
- 

product code	product designation	order no.	EUR / pc.*	PG
<b>MBUS-ITR-CYBLE</b>	M-Bus communication module for Itron gas meters (Cyble module)	85830	151,00	5

## 7 Visualisation

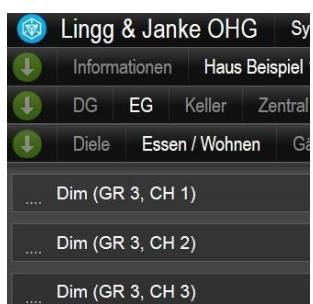
### 7.1 Symcon



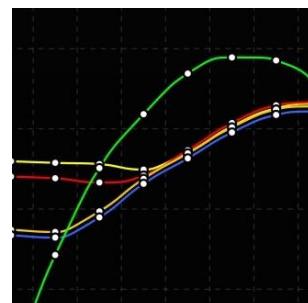
**starter package SymBox**  
**containing an already preprogrammed KNX quick project**  
**example, latest software version, contains KNX Secure**

- including Symcon basic software licence (250 data points)
- integrated KNX interface for direct TP connection
- including adequate power supply (not pictured)

product code / EAN	product designation	RU	order no.	EUR / pc.*	PG
<b>SYMBOX-ST-SEC</b> 	starter package SymBox includes: SymBox (DHCP) with integrated KNX interface (4 RU), basic software licence (250 data points) incl. KNX Secure, adequate power supply (1 RU)	4 +1	87361 SEC	691,00	9



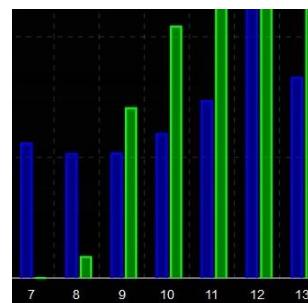
Symcon can be used with  
**KNX quick**  
as well as  
**KNX Secure and KNX Standard**



WILLKOMMEN

LIZENZ

UPDATE



For further information and support  
please contact Symcon directly:

Symcon GmbH  
Willy-Brandt-Allee 31b  
D-23554 Lübeck  
[www.symcon.de](http://www.symcon.de)  
[office@symcon.de](mailto:office@symcon.de)

## 8 Accessories

### 8.1 Exclusiv 55 Cover Frames

#### **cover frame OPUS®55 Kubus, pure white alike RAL 9010**



- suitable for Exclusiv 55 series KNX push buttons
- suitable for temperature and humidity sensor 87195-RW

product code	product designation	order no.	EUR / pc.*	PG
<b>RAHMEN1-ORW</b>	cover frame 1 gang, pure white al. RAL 9010	86571-RW	4,29	3
<b>RAHMEN2-ORW</b>	cover frame 2 gang, pure white al. RAL 9010	86572-RW	6,60	3
<b>RAHMEN3-ORW</b>	cover frame 3 gang, pure white al. RAL 9010	86573-RW	10,78	3
<b>RAHMEN4-ORW</b>	cover frame 4 gang, pure white al. RAL 9010	86574-RW	17,40	3
<b>RAHMEN5-ORW</b>	cover frame 5 gang, pure white al. RAL 9010	86575-RW	27,17	3

#### **cover frame OPUS®55 Kubus, pure white silk mat**



- suitable for Exclusiv 55 series KNX push buttons

product code	product designation	order no.	EUR / pc.*	PG
<b>RAHMEN1-OWM</b>	cover frame 1 gang, pure white silk mat	86551-WM	6,69	3
<b>RAHMEN2-OWM</b>	cover frame 2 gang, pure white silk mat	86552-WM	8,84	3
<b>RAHMEN3-OWM</b>	cover frame 3 gang, pure white silk mat	86553-WM	13,46	3
<b>RAHMEN4-OWM</b>	cover frame 4 gang, pure white silk mat	86554-WM	19,76	3
<b>RAHMEN5-OWM</b>	cover frame 5 gang, pure white silk mat	86555-WM	29,39	3

**cover frame OPUS®55 Kubus, anthracite**


- suitable for Exclusiv 55 series KNX push buttons
- suitable for temperature and humidity sensor 87196-AZ

product code	product designation	order no.	EUR / pc.*	PG
<b>RAHMEN1-OAZ</b>	cover frame 1 gang, anthracite	86581-AZ	6,69	3
<b>RAHMEN2-OAZ</b>	cover frame 2 gang, anthracite	86582-AZ	8,84	3
<b>RAHMEN3-OAZ</b>	cover frame 3 gang, anthracite	86583-AZ	13,46	3
<b>RAHMEN4-OAZ</b>	cover frame 4 gang, anthracite	86584-AZ	19,76	3
<b>RAHMEN5-OAZ</b>	cover frame 5 gang, anthracite	86585-AZ	29,39	3

**cover frame OPUS®55 Kubus, alu silver silk gloss**


- suitable for Exclusiv 55 series KNX push buttons
- suitable for temperature and humidity sensor 87197-WA

product code	product designation	order no.	EUR / pc.*	PG
<b>RAHMEN1-OWA</b>	cover frame 1 gang, alu silver silk gloss	86591-WA	6,69	3
<b>RAHMEN2-OWA</b>	cover frame 2 gang, alu silver silk gloss	86592-WA	8,84	3
<b>RAHMEN3-OWA</b>	cover frame 3 gang, alu silver silk gloss	86593-WA	13,46	3
<b>RAHMEN4-OWA</b>	cover frame 4 gang, alu silver silk gloss	86594-WA	19,76	3
<b>RAHMEN5-OWA</b>	cover frame 5 gang, alu silver silk gloss	86595-WA	29,39	3


**glas cover frame, white**

- suitable for Exclusiv 55 series KNX push buttons

product code	product designation	order no.	EUR / pc.*	PG
<b>RAHMEN1-GLW</b>	glass cover frame 1 gang, white	86321	15,50	3
<b>RAHMEN2-GLW</b>	glass cover frame 2 gang, white	86322	24,50	3
<b>RAHMEN3-GLW</b>	glass cover frame 3 gang, white	86323	33,50	3
<b>RAHMEN4-GLW</b>	glass cover frame 4 gang, white	86324	42,50	3
<b>RAHMEN5-GLW</b>	glass cover frame 5 gang, white	86325	51,50	3


**glas cover frame, mint**

- suitable for Exclusiv 55 series KNX push buttons

product code	product designation	order no.	EUR / pc.*	PG
<b>RAHMEN1-GLM</b>	glass cover frame 1 gang, mint	86331	15,50	3
<b>RAHMEN2-GLM</b>	glass cover frame 2 gang, mint	86332	24,50	3
<b>RAHMEN3-GLM</b>	glass cover frame 3 gang, mint	86333	33,50	3
<b>RAHMEN4-GLM</b>	glass cover frame 4 gang, mint	86334	42,50	3
<b>RAHMEN5-GLM</b>	glass cover frame 5 gang, mint	86335	51,50	3


**glas cover frame, black**

- suitable for Exclusiv 55 series KNX push buttons

product code	product designation	order no.	EUR / pc.*	PG
<b>RAHMEN1-GLS</b>	glass cover frame 1 gang, black	86341	17,50	3
<b>RAHMEN2-GLS</b>	glass cover frame 2 gang, black	86342	26,50	3
<b>RAHMEN3-GLS</b>	glass cover frame 3 gang, black	86343	35,50	3
<b>RAHMEN4-GLS</b>	glass cover frame 4 gang, black	86344	44,50	3
<b>RAHMEN5-GLS</b>	glass cover frame 5 gang, black	86345	53,50	3


**glas cover frame, umbra**

- suitable for Exclusiv 55 series KNX push buttons

product code	product designation	order no.	EUR / pc.*	PG
<b>RAHMEN1-GLU</b>	glass cover frame 1 gang, umbra	86351	17,50	3
<b>RAHMEN2-GLU</b>	glass cover frame 2 gang, umbra	86352	26,50	3
<b>RAHMEN3-GLU</b>	glass cover frame 3 gang, umbra	86353	35,50	3
<b>RAHMEN4-GLU</b>	glass cover frame 4 gang, umbra	86354	44,50	3
<b>RAHMEN5-GLU</b>	glass cover frame 5 gang, umbra	86355	53,50	3



**cover frame, oak tree**

- suitable for Exclusiv 55 series KNX push buttons

product code	product designation	order no.	EUR / pc.*	PG
<b>RAHMEN1-HZE</b>	cover frame 1 gang, oak tree	86361	20,50	3
<b>RAHMEN2-HZE</b>	cover frame 2 gang, oak tree	86362	24,50	3
<b>RAHMEN3-HZE</b>	cover frame 3 gang, oak tree	86363	30,50	3
<b>RAHMEN4-HZE</b>	cover frame 4 gang, oak tree	86364	38,50	3
<b>RAHMEN5-HZE</b>	cover frame 5 gang, oak tree	86365	45,50	3



**cover frame, wenge tree**

- suitable for Exclusiv 55 series KNX push buttons

product code	product designation	order no.	EUR / pc.*	PG
<b>RAHMEN1-HZW</b>	cover frame 1 gang, wenge tree	86371	20,50	3
<b>RAHMEN2-HZW</b>	cover frame 2 gang, wenge tree	86372	24,50	3
<b>RAHMEN3-HZW</b>	cover frame 3 gang, wenge tree	86373	30,50	3
<b>RAHMEN4-HZW</b>	cover frame 4 gang, wenge tree	86374	38,50	3
<b>RAHMEN5-HZW</b>	cover frame 5 gang, wenge tree	86375	45,50	3



**cover frame, beech tree**

- suitable for Exclusiv 55 series KNX push buttons

product code	product designation	order no.	EUR / pc.*	PG
<b>RAHMEN1-HZB</b>	cover frame 1 gang, beech tree	86381	20,50	3
<b>RAHMEN2-HZB</b>	cover frame 2 gang, beech tree	86382	24,50	3
<b>RAHMEN3-HZB</b>	cover frame 3 gang, beech tree	86383	30,50	3
<b>RAHMEN4-HZB</b>	cover frame 4 gang, beech tree	86384	38,50	3
<b>RAHMEN5-HZB</b>	cover frame 5 gang, beech tree	86385	45,50	3

## 8.2 Mounting Frames for Tablets

### Smart-Frame series of mounting frames



- magnetic fixing of the frame
- no screws or holes visible
- solid coloured acrylic glass with glossy surface
- framesides matt with reduced edge
- vertical or horizontal usage possible

product code	product designation	colour	order no.	EUR / pc.*	PG
<b>FRAME-APPLE</b>	Apple iPad 2 / 3 / 4	white	88011	99,00	6
<b>FRAME-APPLE</b>	Apple iPad 2 / 3 / 4	black	88012	99,00	6
<b>FRAME-APPLE</b>	Apple iPad Air / Air2 / Pro9,7"	white	88071	99,00	6
<b>FRAME-APPLE</b>	Apple iPad Air / Air2 / Pro9,7"	black	88072	99,00	6
<b>FRAME-APPLE</b>	Apple iPad 2017, 2018	white	88071	99,00	6
<b>FRAME-APPLE</b>	Apple iPad 2017, 2018	black	88072	99,00	6
<b>FRAME-APPLE</b>	Apple iPad 10.2" 2019 / Air3 10.5"	white	88015	99,00	6
<b>FRAME-APPLE</b>	Apple iPad 10.2" 2019 / Air3 10.5"	black	88016	99,00	6
<b>FRAME-APPLE</b>	Apple iPad Mini 1 / 2 / 3	white	88031	86,00	6
<b>FRAME-APPLE</b>	Apple iPad Mini 1 / 2 / 3	black	88032	86,00	6
<b>FRAME-APPLE</b>	Apple iPad Mini 4	white	88033	86,00	6
<b>FRAME-APPLE</b>	Apple iPad Mini 4	black	88034	86,00	6
<b>FRAME-SAMSUNG</b>	Samsung GalaxyTab A 10.1 (2018) SM-T580/585	white	88085	99,00	6
<b>FRAME-SAMSUNG</b>	Samsung GalaxyTab A 10.1 (2018) SM-T580/585	black	88086	99,00	6
<b>FRAME-SAMSUNG</b>	Samsung GalaxyTab A 10.1 (2019) SM-T510/515	white	88091	99,00	6
<b>FRAME-SAMSUNG</b>	Samsung GalaxyTab A 10.1 (2019) SM-T510/515	black	88092	99,00	6
<b>FRAME-SAMSUNG</b>	Samsung GalaxyTab A 8.0 (2019) SM-T290/295	white	88095	86,00	6
<b>FRAME-SAMSUNG</b>	Samsung GalaxyTab A 8.0 (2019) SM-T290/295	black	88096	86,00	6



### power supply for tablets

- power supply fits into 55mm switch box
- input voltage 230VAC
- max. output current 1A
- output via USB socket
- connecting cable not included

<b>FRAME-NT1</b>	power supply 5V/1A with USB socket, fits into switch box	-	88003	55,00	6
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## 9 New Products

### 9.1 KNX Secure Programming Lock



deviating picture

#### **KNX Secure programming lock including push button interface 4 fold with LEDs, with separate wire connectors**

- can block ETS download on one KNX bus line
- protection switchable via Secure group object.
- automatic activation of blocking function after timeout.
  
- all push button functions are available with no restrictions.
- input functions: switching (standard, press/release, short/long), dimming, blind / shutter, scene, inhibit
- output functions: time functions, logical functions, status, scenes (8)
- inputs for dry contacts
- separate wires for input connection (20cm)

product code / EAN	product designation	RU	order no.	EUR / pc.*	PG
<b>TS4FL-2-PS-SEC</b>  4 260049 689611	KNX Secure programming lock including push button interface with 4 inputs and 4 outputs (LEDs), with separate wires	-	79883 SEC	67,00	1