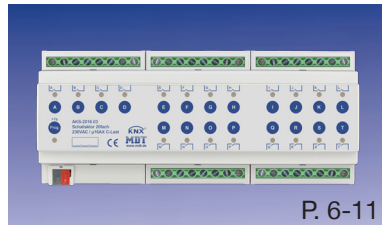# Price list 2017

KNX®

Product overview

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Analog In-/Outputs
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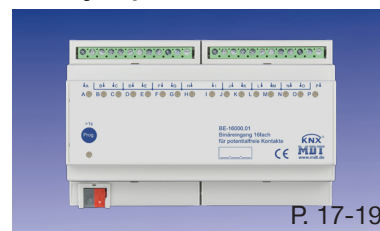### Shutter Actuators
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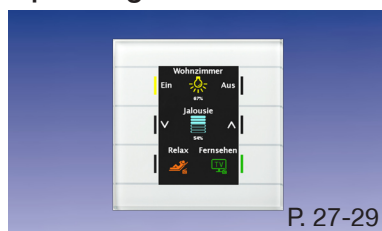### Bus Power Supplies
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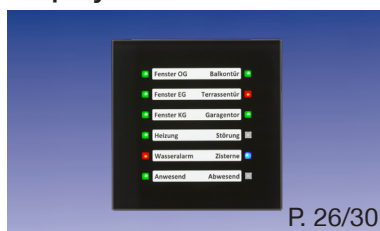### System Devices
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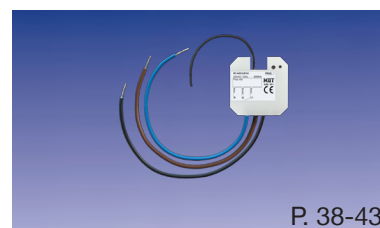P. 36-37

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Valid from Oktober 2017. Through this price list, all previous price lists loose their validity.

All prices in EURO, excluded VAT. Technical modifications and corrections are subject to change without notice. Images could be different.

All orders based on our german general Terms and conditions.

DIN EN ISO 9001
TAW Cert
Zert.Nr.1905606

MDT technologies

Product overview

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Switch Actuators

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Overview Switch Actuators

Series	AKI-xx16.03	AKS-xx16.03	AMI-xx16.02	AMS-xx16.02	AZI-xx16.01	AKK-xx16.03	AKU-xx16.02	AKK-xxUP.03
Mounting place	MDRC	MDRC	MDRC	MDRC	MDRC	MDRC	MDRC	UP
Number of outputs	4/8/12	4/8/12/16/20	4/8/12	4/8/12	3/6	2/4/8/16	8/16	1/2/3
Dimensions (SU)	4/8/12	4/6/8/8/12	4/8/12	4/8/12	4/8	2/2/4/8	4/8	UP
Manual operation	✓	✓	✓	✓	✓	✓	✓	-
Manual operation lockable	✓	✓	✓	✓	-	✓	✓	-
Status at manual operation	✓	✓	✓	✓	✓	✓	✓	-
Status LED for each channel	✓	✓	✓	✓	✓	✓	✓	-
Turn off LEDs (Ecomode)	✓	✓	-	-	-	✓	✓	-
Max. nominal current for each channel	16/20A	16A	16/20A	16A	16/20A	16A	16A	16/10/10A
Max. inrush current	600A	400A	600A	400A	600A	200A	300A	200/40/40A
Capacitive load / C-Load	yes, 200µF	yes, 140µF	yes, 200µF	yes, 140µF	yes, 200µF	70µF	100µF	70/14/14µF
Relay type	bistable	bistable	bistable	bistable	bistable	bistable	bistable	bi/mo/mo
Screw terminal 4mm²	✓	✓	✓	✓	✓	-/-/✓/✓	✓	-
Current measurement 10mA-20A	-	-	✓	✓	✓	-	-	-
Active power measurement	-	-	-	-	✓	-	-	-
NO and NC contact operation	✓	✓	✓	✓	✓	✓	✓	✓
ON/OFF switching delay	✓	✓	✓	✓	✓	✓	✓	✓
3 channel synchronous switching	✓	✓	-	-	-	-	-	-
Impulse function	✓	✓	-	-	-	✓	✓	✓
Central switching function	✓	✓	✓	✓	✓	✓	✓	✓
Staircase light function:	✓	✓	✓	✓	✓	✓	✓	✓
Warning by light	✓	✓	✓	✓	✓	✓	✓	✓
Warning by object	✓	✓	-	-	-	✓	✓	✓
Staircase light time by object	✓	✓	-	-	-	-	✓	-
Trigger staircase light time again	✓	✓	✓	✓	✓	✓	✓	✓
Staircase light time summable	✓	✓	-	-	-	✓	✓	✓
Treshold switch Byte/2Byte/2Byte float	✓	✓	-	-	-	-	✓	-
Scene function teachable	✓	✓	✓	✓	✓	✓	✓	✓
Logical function AND/OR	✓	✓	✓	✓	✓	✓	✓	✓
Logical function AND/OR/XOR/TOR	✓	✓	-	-	-	-	✓	-
Priority object/forced operation	✓	✓	-	-	-	-	✓	-
Release time for forced operation	✓	✓	-	-	-	-	✓	-
Behavior at bus voltage failure	✓	✓	✓	✓	✓	✓	✓	✓/-/-
Behavior at bus voltage return	✓	✓	✓	✓	✓	✓	✓	✓
Behavior after block	✓	✓	-	-	-	✓	✓	✓
Behavior after forced operation	✓	✓	-	-	-	-	✓	-
Status active/passive	✓	✓	✓	✓	✓	✓	✓	✓
Status inverted	✓	✓	-	-	-	✓	✓	✓
Hour meter for switching	✓	✓	✓	✓	✓	-	✓	-
Shutter function	-	-	-	-	-	-	✓	-
Heating control with PWM	-	-	-	-	-	-	✓	-
„In operation" telegram	✓	✓	✓	✓	✓	✓	✓	✓
Quick application download (long frame	✓	✓	✓	✓	-	✓	✓	✓

Overview Shutter Actuators

Series	JAL-xx10.02	JAL-xx10D.02	JAL-xxUP.02	AKU-xx16.02
Mounting place	MDRC	MDRC	flush mounted	MDRC
Number of outputs	2/4/8	4/8	1	4/8
Dimensions (SU)	2/4/8	4/8	UP	4/8
Motor type	230VAC	24VDC	230VAC	230VAC
Max. switching current	10A	8A	6A	16A
Max. load shutter motor	600W	180W	300W	600W
Commutator circuit for 24VDC motors	-	✓	-	-
Manual operation	✓	✓	-	✓
Manual operation lockable	✓	✓	-	✓
Status LED for each channel	✓	✓	-	✓
Turn off LEDs (Ecomode)	✓	✓	-	✓
Tip operation for accurate shutter positioning	✓	✓	✓	✓
Up/Down for stop (single object control)	✓	✓	✓	✓
Swap motor connections Up/Down	✓	✓	✓	✓
Central functions lockable separately	✓	✓	✓	✓
Alarm functions (Wind/Rain/Frost)	✓	✓	✓	✓
Behavior after alarms separately adjustable	✓	✓	✓	✓
Block functions	✓	✓	✓	✓
Behavior after block	✓	✓	✓	✓
Extended block functions	✓	✓	✓	✓
Extended status active/passive	✓	✓	✓	✓
Extended scene functions	✓	✓	✓	✓
Extended automatic positions	✓	✓	✓	✓
Scene functions teachable	✓	✓	✓	✓
Priority object/forced operation	✓	✓	✓	✓
Release time for forced operation	✓	✓	✓	✓
Behavior after forced operation adjustable	✓	✓	✓	✓
Ventilation function (window open/tilt)	✓	✓	✓	✓
Automatic sun protection with sun position calculation	✓	✓	-	-
Position calculation	✓	✓	-	-
Block outside temperature for sun protection	✓	✓	-	-
Room temperature enabling for sun protection	✓	✓	-	-
2 shutter positions at sun protection	✓	✓	-	-
Behavior at bus voltage failure	-/✓/✓	✓	-	-
Behavior at bus voltage return	✓	✓	✓	✓
Switch Actuator function	-	-	-	✓
Heating control with PWM	-	-	-	✓
„In operation" telegram	✓	✓	✓	✓
Quick application download (long frame support for ETS5)	✓	✓	✓	✓

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Stand: 1017   -- Page 5 --

DIN EN ISO 9001
TAW Cert
Zert.Nr.1905606

Article Description	Art.No.	PG	List Price

Switch Actuator 4-fold, 4SU MDRC, 16/20A, 230VAC, C-load   AKI-0416.03   A   250,00 €
Switch Actuator with **bistable relays**, for heavy C-loads
Current max. **16/20A**, capacitive load max. **200µF**

- **Extensive function extension**
- **Lockable manual operation and LED indicator for each channel**
- NO and NC contact operation
- Status response at manually operation
- Time functions (switch-on/switch-off delay)
- Extensive staircase light and impulse functions
- Extended logical and scene functions for each channel
- Extended status functions (inverted, cyclic, at block)
- **Treshold switch (Byte/2Byte/2Byte float)**
- **Hour meter for switching**
- **Priority/forced operation with automatic release time**
- Separate power supply terminals for each channel
- Power supply via KNX bus
- Quick application download (long frame support for ETS5)
- 3 years warranty

> **NEW 4mm² / 2x2,5mm²**
> **Screw terminal**

Switch Actuator 8-fold, 8SU MDRC, 16/20A, 230VAC, C-load   AKI-0816.03   A   340,00 €
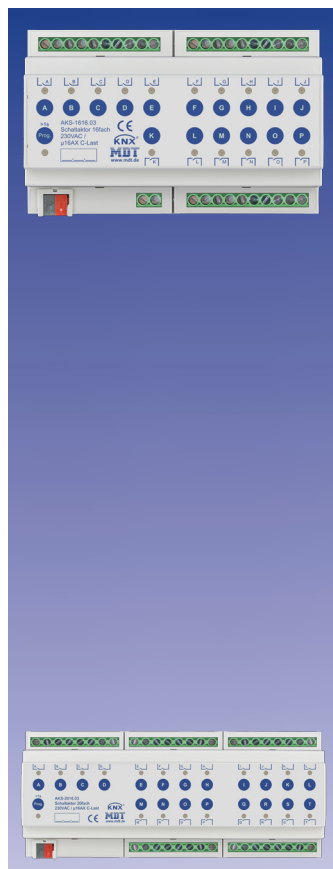Current max. **16/20A**, capacitive load max. **200µF**

Switch Actuator 12-fold, 12SU MDRC, 16/20A, 230VAC, C-load   AKI-1216.03   A   416,00 €
Current max. **16/20A**, capacitive load max. **200µF**

Switch Actuator 4-fold, 4SU MDRC, 16/20A, 230VAC, C-load   AMI-0416.02   A   280,00 €
Current measurement, Switch Actuator with **bistable relays**
Current max. **16/20A**, capacitive load max. **200µF**

- Push Button and LED indicator for each channel
- NO and NC contact operation
- Time functions (switch-on/switch-off delay, Staircase light function)
- Status response (active/passive) for each channel
- Logical linking of binary data, 8 scenes per channel
- Hour meter
- Central switching functions and block functions
- Adjustable behaviour in case of bus voltage failure or return
- Each contact has an own supply phase
- **Integrated True RMS current measurement (current, kW)**
- **Current measurement range 10mA-20A**
- **Fast reaction <1s at Master/Slave operation**
- **Integrated counter to capture power consumption (Wh/kWh)**
- Quick application download (long frame support for ETS5)
- 3 years warranty

> **NEW 4mm² / 2x2,5mm²**
> **Screw terminal**

Switch Actuator 8-fold, 8SU MDRC, 16/20A, 230VAC, C-load   AMI-0816.02   A   380,00 €
Current max. **16/20A**, capacitive load max. **200µF**

Switch Actuator 12-fold, 12SU MDRC, 16/20A, 230VAC, C-load   AMI-1216.02   A   470,00 €
Current max. **16/20A**, capacitive load max. **200µF**

Article Description	Art.No.	PG	List Price

Switch Actuator 4-fold, 4SU MDRC, 16A, 230VAC, C-load AKS-0416.03 A 230,00 €
Switch Actuator with **bistable relays** **NEW**
Current max. 16A, capacitive load max. **140µF**

- **Space saving by ideal form factor**
- **Extensive function extension**
- Lockable manual operation and LED indicator for each channel
- NO and NC contact operation
- Status response at manually operation
- Time functions (switch-on/switch-off delay, staircase light functions)
- Extended logical and scene functions for each channel
- Extended status functions (inverted, cyclic, at block)
- **Treshold switch (Byte/2Byte/2Byte float)**
- **Hour meter for switching**
- **Priority/forced operation with automatic release time**
- Separate power supply terminals for each channel
- Power supply via KNX bus
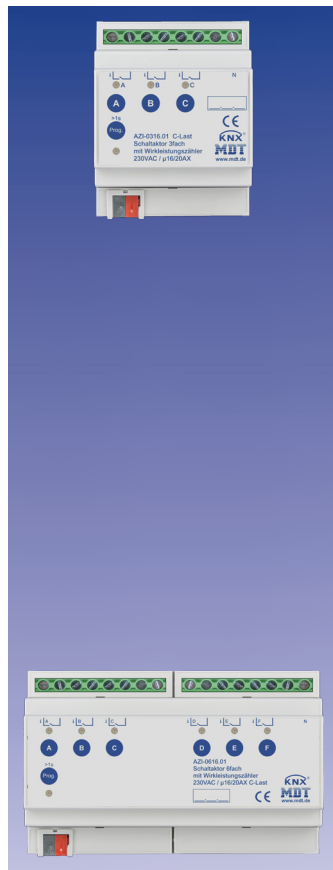- Quick application download (long frame support for ETS5)
- 3 years warranty

**NEW 4mm² / 2x2,5mm²
Screw terminal**

Switch Actuator 8-fold, 6SU MDRC, 16A, 230VAC, C-load AKS-0816.03 A 315,00 €
Current max. 16A, capacitive load max. **140µF** **NEW**

Switch Actuator 12-fold, 8SU MDRC, 16A, 230VAC, C-load AKS-1216.03 A 390,00 €
Current max. 16A, capacitive load max. **140µF** **NEW**

Switch Actuator 16-fold, 8SU MDRC, 16A, 230VAC, C-load AKS-1616.03 A 452,00 €
Switch Actuator with **bistable relays** **NEW**
Current max. 16A, capacitive load max. **140µF**

- **Space saving by ideal form factor**
- **Saves up to 30% space**
- **Extensive function extension**
- Lockable manual operation and LED indicator for each channel
- NO and NC contact operation
- Status response at manually operation
- Time functions (switch-on/switch-off delay, staircase light functions)
- Extended logical and scene functions for each channel
- Extended status functions (inverted, cyclic, at block)
- **Treshold switch (Byte/2Byte/2Byte float)**
- **Hour meter for switching**
- **Priority/forced operation with automatic release time**
- Separate power supply terminals for each channel
- Power supply via KNX bus
- Quick application download (long frame support for ETS5)
- 3 years warranty

**NEW 4mm² / 2x2,5mm²
Screw terminal**

Switch Actuator 20-fold, 12SU MDRC, 16A, 230VAC, C-load AKS-2016.03 A 552,00 €
Current max. 16A, capacitive load max. **140µF**

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Stand: 1017 -- Page 7 --

DIN EN ISO 9001
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Zert.Nr.1905606

Article Description	Art.No.	PG	List Price
Switch Actuator 4-fold, 4SU MDRC, 16A, 230VAC, C-load **With current measurement,** Switch Actuator with **bistable relays** Current max. 16A, capacitive load max. **140µF**	AMS-0416.02	A	260,00 €

- Push Button and LED indicator for each channel
- NO and NC contact operation
- Time functions (switch-on/switch-off delay, staircase light function)
- Status response (active/passive) for each channel
- Logical linking of binary data, 8 scenes per channel
- Hour meter
- Central switching functions and block functions
- Adjustable behaviour in case of bus voltage failure or return
- Each contact has an own supply phase
- **Integrated True RMS current measurement (current, kWh)**
- **Current measurement range 10mA-20A**
- **Fast reaction <1s at Master/Slave operation**
- **Integrated counter to capture power consumption (Wh/kWh)**
- Quick application download (long frame support for ETS5)
- 3 years warranty

NEW 4mm² / 2x2,5mm²
Screw terminal

Article Description	Art.No.	PG	List Price
Switch Actuator 8-fold, 8SU MDRC, 16A, 230VAC, C-load Current max. 16A, capacitive load max. **140µF**	AMS-0816.02	A	358,00 €
Switch Actuator 12-fold, 12SU MDRC, 16A, 230VAC, C-load Current max. 16A, capacitive load max. **140µF**	AMS-1216.02	A	446,00 €

Article Description	Art.No.	PG	List Price
Switch Actuator 3-fold, 4SU MDRC, 16/20A, 230VAC, C-load **With active power measurement,** Switch Actuator with **bistable relays**. Current max. 16/20A, capacitive load max. **200µF**	AZI-0316.01	A	280,00 €

- Push Button and LED indicator for each channel
- NO and NC contact operation
- Time functions (switch-on/switch-off delay, staircase light function)
- Status response (active/passive) for each channel
- Logical linking of binary data, 8 scenes per channel
- Hour meter
- Central switching functions and block functions
- Adjustable behaviour in case of bus voltage failure or return
- Each contact has an own supply phase
- **Integrated True RMS current measurement (current, kW)**
- **Current measurement range 10mA-20A**
- **Fast reaction <1s at Master/Slave operation**
- **Active power measurement with integrated counter (Wh/kWh)**
  with current and voltage rating
- 3 years warranty

NEW 4mm² / 2x2,5mm²
Screw terminal

Article Description	Art.No.	PG	List Price
Switch Actuator 6-fold, 12SU MDRC, 16/20A, 230VAC, C-load Current max. 16/20A, capacitive load max. **200µF**	AZI-0616.01	A	388,00 €

DIN EN ISO 9001
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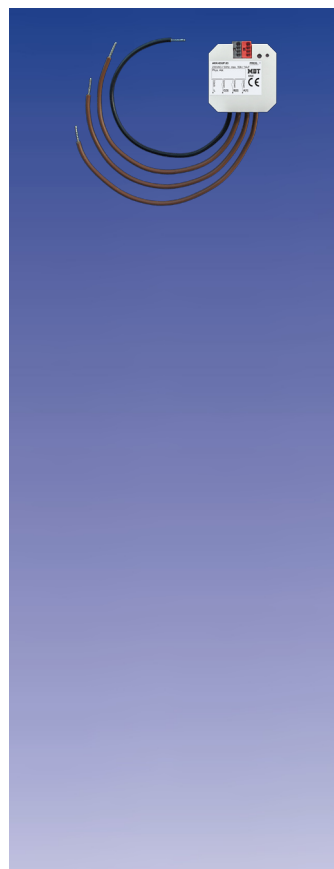| Article Description	Art.No.	PG	List Price
Switch Actuator 1-fold, flush mounted, 16A, 230VAC	AKK-01UP.03	A	89,00 €
Flush mounted Switch Actuator with **bistable relays**	**NEW SERIES**		
Current max. 16A with ohmic load, **70µF/10ECG**			

- **Function extension**
- NO and NC contact operation
- Time functions (switch-on/switch-off delay)
- Extensive staircase light and impulse functions
- Status response (active/passive) for each channel
- Logical linking of binary data
- Extendend scene functions for each channel
- Central switching functions and block functions
- Adjustable behaviour in case of bus voltage failure or return
- Flush mounted in socket
- Dimensions (W x H x D): 41mm x 41mm x 22mm
- Quick application download (long frame support for ETS5)
- 3 years warranty

Article Description	Art.No.	PG	List Price
Switch Actuator 2-fold, flush mounted, 10A, 230VAC	AKK-02UP.03	A	99,00 €
Flush mounted Switch Actuator with **monostable relays**	**NEW SERIES**		
Current max. 10A with ohmic load, 10A with 14µF/2ECG			

Article Description	Art.No.	PG	List Price
Switch Actuator 3-fold, flush mounted, 10A, 230VAC, Fan coil	AKK-03UP.03	A	139,00 €
Flush mounted Switch Actuator with **monostable relays**	**NEW**		
Current max. 10A with ohmic load, 10A with 14µF/2ECG			

Fan coil mode:
- Control of 3-speed fans/ventilator convectors
- Outputs are locked against each other
- Direct operation by three 1Bit objects or a single 1Bit object (+/-)
- Automatic operation by 1Byte control value (0-100%)
- Suitable for 2-pipe/4-pipe systems
- Output objects to control valves for heating/cooling
- Day/Night function to limit fan speed at night
- Emergency operation if actuating variable fails

Switch Actuator mode:
- NO and NC contact operation
- Time functions (switch-on/switch-off delay)
- Staircase light function with adjustable warning time
- Status response (active/passive) for each channel
- Logical linking of binary data, 8 scenes per channel
- Central switching functions and block functions
- Adjustable behaviour in case of bus voltage failure or return
- Flush mounted in socket
- Dimensions (W x H x D): 41mm x 41mm x 22mm
- Quick application download (long frame support for ETS5)
- 3 years warranty

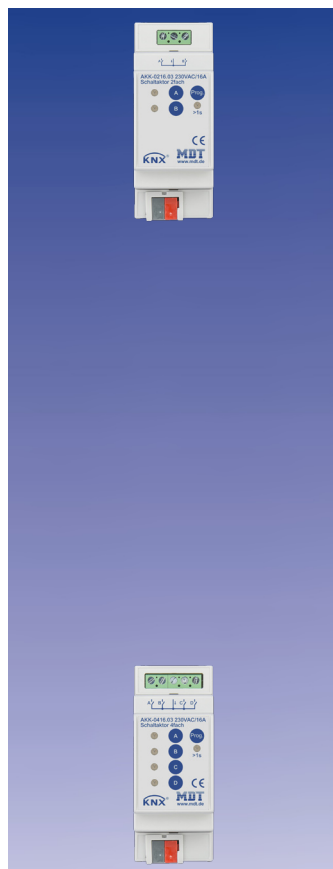| Article Description	Art.No.	PG	List Price
Switch Actuator 4-fold, 2SU MDRC, 10A, 230VAC, Fan coil	AKK-04FC.03	A	180,00 €
Compact Switch Actuator with **bistable relays**	NEW		
Current max. 16A with ohmic load, **70µF/10ECG**			

Fan coil mode:
- Control of 3-/4-speed fans/ventilator convectors
- Additional switching output at 3-speed operation
- Outputs are locked against each other
- Direct operation by three 1Bit objects or a single 1Bit object (+/-)
- Automatic operation by 1Byte control value (0-100%)
- Suitable for 2-pipe/4-pipe systems
- Output objects to control valves for heating/cooling
- Day/Night function to limit fan speed at night
- Emergency operation if actuating variable fails

Switch Actuator mode:
- NO and NC contact operation
- Time functions (switch-on/switch-off delay)
- Staircase light function with adjustable warning time
- Status response (active/passive) for each channel
- Logical linking of binary data, 8 scenes per channel
- Central switching functions and block functions
- Adjustable behaviour in case of bus voltage failure or return
- Quick application download (long frame support for ETS5)
- 3 years warranty

Switch Actuator 2-fold, 2SU MDRC, 16A, 230VAC	AKK-0216.03	A	148,00 €
Compact Switch Actuator with **bistable relays**	NEW SERIES		
Current max. 16A with ohmic load, **70µF/10ECG**			

- **Function extension**
- Push Button and LED indicator for each channel
- NO and NC contact operation
- Status response at manually operation
- Time functions (switch-on/switch-off delay)
- Extensive staircase light and impulse functions
- Status response (active/passive) for each channel
- Logical linking of binary data
- Extendend scene functions for each channel
- Central switching functions and block functions
- Adjustable behavior in case of bus voltage failure or return
- Common supply phase
- Power supply via KNX bus
- Quick application download (long frame support for ETS5)
- 3 years warranty

Switch Actuator 4-fold, 2SU MDRC, 16A, 230VAC	AKK-0416.03	A	162,00 €
Current max. 16A with ohmic load, 70µF/10ECG	NEW SERIES		

Article Description	Art.No.	PG	List Price
Switch Actuator 8-fold, 4SU MDRC, 16A, 230VAC	AKK-0816.03	A	258,00 €
Compact Switch Actuator with **bistable relays**	**NEW SERIES**		
Current max. 16A with ohmic load, **70µF/10ECG**			

- **Function extension**
- Lockable manual operation and LED indicator for each channel
- NO and NC contact operation
- Status response at manually operation
- Time functions (switch-on/switch-off delay)
- Extensive staircase light and impulse functions
- Status response (active/passive) for each channel
- Logical linking of binary data
- Extendend scene functions for each channel
- Central switching functions and block functions
- Adjustable behavior in case of bus voltage failure or return
- **Each contact has an own supply phase**
- Power supply via KNX bus
- Quick application download (long frame support for ETS5)
- 3 years warranty

NEW 4mm² / 2x2,5mm²
Screw terminal

Switch Actuator 16-fold, 8SU MDRC, 16A, 230VAC	AKK-1616.03	A	390,00 €
Current max. 16A with ohmic load, **70µF/10ECG**	**NEW SERIES**		

Analog I/O 2-fold, flush mounted, 0-10V, In-/Output shiftable	AIO-0210V.01	B	118,00 €

Suitable as analog output to control ventilation systems and other systems with 0-10V input. Also useful as analog input to engage rotation speed or other 0-10V values.

- Each channel can be configured independently (In-/output)
- In/outputs are galvanically isolated from the bus
- In/outputs are galvanically connected together
- Voltage for output operation is generated inside the actuator
- No external power supply required
- Input operation 0-10V/2-10V or 0-20mA/4-20mA (switchable)
  - Adjustable conversation of measuring unit and DPT
  - Min/max function, wire breakage detection
  - Threshold and traffic light function
- Output functions 0-10V:
  - Control by 1Byte, 2Byte or 1Bit objects
  - Day/night function to limit control value
  - Emergency mode if given value fails
- Flush mounted in socket
- Dimensions (W x H x D): 41mm x 41mm x 12mm
- Quick application download (long frame support for ETS5)
- 3 years warranty

Analog I/O 4-fold, 2SU MDRC, 0-10V, In-/Output shiftable	AIO-0410V.01	B	158,00 €

Article Description	Art.No.	PG	List Price

Universal Actuator 8-fold, 4SU MDRC, 16A, 230VAC | AKU-0816.02 | A | 290,00 € |
Compact Switch Actuator with **bistable relays** | **NEW SERIES** | | |
Current max. 16A with ohmic load, **100µF/15ECG**

NEW 4mm² / 2x2,5mm²
Screw terminal

- **Extensive function extension**
- **Can be used as Switch Actuator (max. 8-fold) or**
  Shutter Actuator (max. 4-fold)
- **Mixed applications from Switch- and Shutter Actuator possible**
- Heating control with PWM 0-100%
- Push Button and LED indicator for each channel
- Time functions (switch-on/switch-off delay, staircase light function)
- Status response (active/passive) for each channel
- Logical linking of binary data, 8 scenes per channel
- Central switching functions and block functions
- Operation mode blind/shutter adjustable
- Travel-, pause-at-change-of-direction- and step time adjustable
- 1Bit automatic function and sun protection
- 8Bit positioning for shutter and blinds
- Adjustable behaviour in case of bus voltage failure or return
- **Each contact has an own supply phase**
- Quick application download (long frame support for ETS5)
- 3 years warranty

Universal Actuator 16-fold, 8SU MDRC, 16A, 230VAC | AKU-1616.02 | A | 422,00 € |
Current max. 16A with ohmic load, **100µF/15ECG** | **NEW SERIES** | | |
Switch Actuator (max. 16-fold) or Shutter Actuator (max. 8-fold)

Shutter Actuator 1-fold, flush mounted, 6A, 230VAC | JAL-01UP.02 | A | 99,00 € |
Shutter Actuator to feed 230VAC shutter motors up to 300W
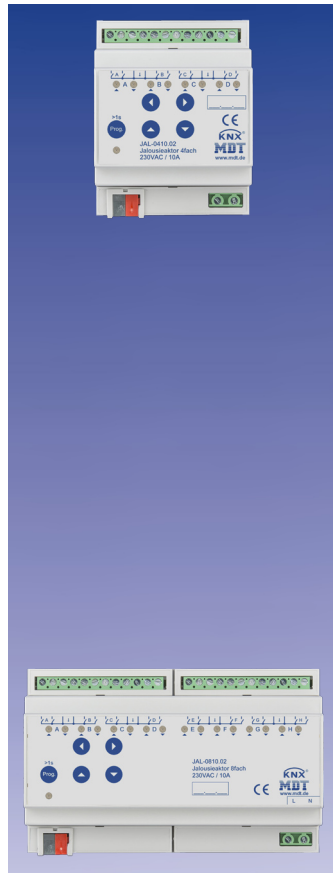With **monostable relays**, current max. 6A with ohmic load

- **Extensive function extension**
- Lockable manual operation and LED indicator for each channel
- Operation mode blind/shutter
- Travel-, pause-at-change-of-direction and step time adjustable
- Separate travel time for up and down adjustable
- Tip operation for accurate positioning
- Extended 1Bit automatic positions and logical functions
- 1Byte absolute positioning for shutter and blinds
- Alarm, central- and block functions
- Behavior after alarms and block separately adjustable
- Priority/forced operation with automatic release time
- **Ventilation function (window open/tilt)**
- **Automatic sun protection with sun**
  position calculation (only JAL-0210.02)
- Adjustable behavior in case of bus voltage return
- Two contacts share one supply phase
- Dimensions (W x H x D): 41mm x 41mm x 22mm
- Quick application download (long frame support for ETS5)
- 3 years warranty

Shutter Actuator 2-fold, 2SU MDRC, 10A, 230VAC | JAL-0210.02 | A | 156,00 € |
Shutter Actuator to feed 230VAC shutter motors up to 600W,
Push Button and LED indicator for each channel
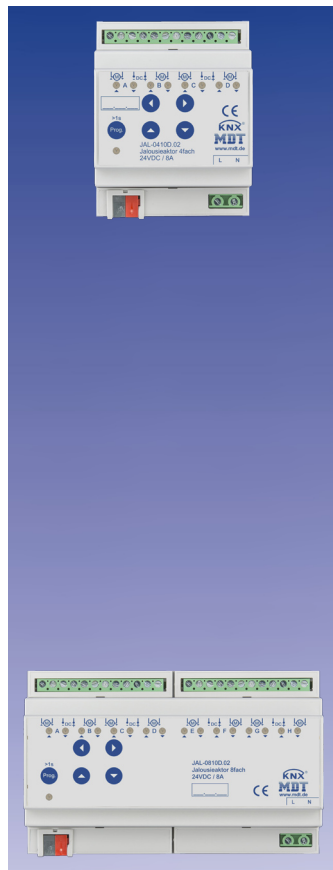
Article Description	Art.No.	PG	List Price
Shutter Actuator 4-fold, 4SU MDRC, 10A, 230VAC	JAL-0410.02	A	238,00 €

Shutter Actuator to feed 230VAC shutter motors up to 600W
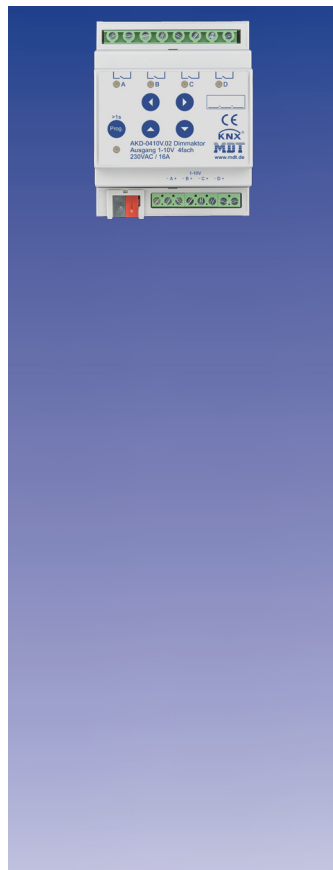With **monostable relays**, current max. 10A with ohmic load

- **Extensive function extension**
- Lockable manual operation and LED indicator for each channel
- Operation mode blind/shutter
- Travel-, pause-at-change-of-direction and step time adjustable
- Separate travel time for up and down adjustable
- Tip operation for accurate positioning
- Extended 1Bit automatic positions and logical functions
- 1Byte absolute positioning for shutter and blinds
- Alarm, central- and block functions
- Behavior after alarms and block separately adjustable
- Priority/forced operation with automatic release time
- **Ventilation function (window open/tilt)**
- **Automatic sun protection with sun position calculation**
- Adjustable behavior in case of bus voltage failure or return
- Two contacts share one supply phase
- Quick application download (long frame support for ETS5)
- 3 years warranty

Shutter Actuator 8-fold, 8SU MDRC, 10A, 230VAC	JAL-0810.02	A	355,00 €

Shutter Actuator to feed 230VAC shutter motors up to 600W
Current max. 10A with ohmic load

Shutter Actuator 4-fold, 4SU MDRC, 8A, 24VDC	JAL-0410D.02	A	241,00 €

Shutter Actuator to feed 24VDC shutter motors up to 180W
With **monostable relays**, current max. 8A with ohmic load

- **Extensive function extension**
- Lockable manual operation and LED indicator for each channel
- Operation mode blind/shutter
- Travel-, pause-at-change-of-direction and step time adjustable
- Separate travel time for up and down adjustable
- Tip operation for accurate positioning
- Extended 1Bit automatic positions and logical functions
- 1Byte absolute positioning for shutter and blinds
- Alarm, central- and block functions
- Behavior after alarms and block separately adjustable
- Priority/forced operation with automatic release time
- **Ventilation function (window open/tilt)**
- **Automatic sun protection with sun position calculation**
- **To feed 24VDC motors with 2 connections**
- **Integrated commutator circuit**
- Adjustable behavior in case of bus voltage failure or return
- Quick application download (long frame support for ETS5)
- 3 years warranty

|			
Shutter Actuator 8-fold, 8SU MDRC, 8A, 24VDC	JAL-0810D.02	A	358,00 €

Shutter Actuator to feed 24VDC shutter motors up to 180W
Current max. 8A with ohmic load

Article Description	Art.No.	PG	List Price
Dimming Actuator 2-fold, 4SU MDRC, 250W, 230VAC	AKD-0201.01	A	310,00 €
Dimming Actuator for switching and dimming			
Max. load for each channel 250W, min. load for each channel 2W (LED)			

- **2W minimum load for LED lightning**
- Push Button and LED indicator for each channel
- For dimming and switching incandescent lamps, HV halogen lamps, LV halogen lamps (with conventional or suitable electronic transformers), dimmable energy saving lamps and LED lightning
- Dimming operation in leading or trailing edge
- Short circuit and temperature protection with alarm, softstart
- Time functions (switch-on/switch-off delay, staircase light function)
- Each contact has an own supply phase/neutral conductor
- 3 years warranty

Article Description	Art.No.	PG	List Price
Dimming Actuator 1-fold, 4SU MDRC, 600W, 230VAC	AKD-0103.01	A	290,00 €
Max. load for each channel 600W, min. load for each channel 2W (LED)			
Dimming Actuator 4-fold, 8SU MDRC, 250W, 230VAC	AKD-0401.01	A	410,00 €
Max. load for each channel 250W, min. load for each channel 2W (LED)			
Dimming Actuator 2-fold, 8SU MDRC, 600W, 230VAC	AKD-0203.01	A	380,00 €
Max. load for each channel 600W, min. load for each channel 2W (LED)			

Article Description	Art.No.	PG	List Price
Dimming Actuator 4-fold, 4SU MDRC, 1-10V RGBW	AKD-0410V.02	A	230,00 €
Control device for 1-10V electronic transformers with relays			
Current max. 16A, capacitive load max. 140µF			

- Push Button and LED indicator for each channel
- To control 1-10V electronic transformers (ECG)
- **With RGBW functionality**
- **RGB und HSV control with extensive color functions**
- Offers control voltage up to 30 ECG (each channel)
- Voltage reversal protection
- Embedded switching relays for 30 ECG/30W, 20 ECG/58W, 15 ECG/2x36W, 10 ECG/2x58W
- Adjustable switch-on behaviour
- Minimum/maximum brighness value adjustable
- Adjustable dimming speed
- Central switching functions
- 8 scenes per channel
- 1Bit automatic function
- 3 years warranty
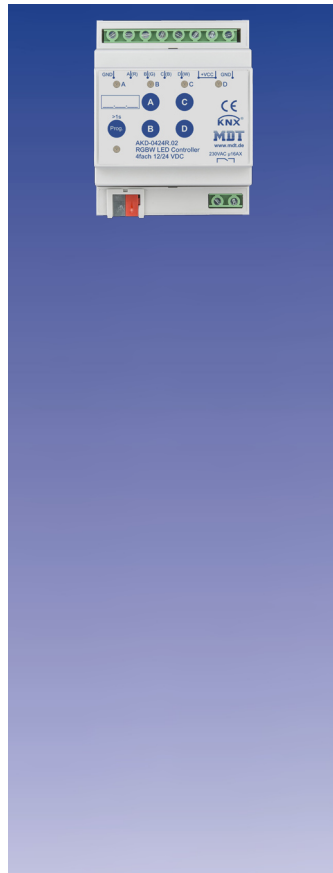
| Article Description	Art.No.	PG	List Price
RGBW LED Controller 4-fold, 4SU MDRC	AKD-0424R.02	B	218,00 €
Suitable for 12/24V RGBW CV LED or 4 separate channels	**NEW SERIES**		

- **Extensive function extension**
- Absolute and relative dimming for **HSV color space** and RGB
- Tunable White color temperature control
- Selectable dimming curve and PWM frequency up to **1000Hz**
- Global and individual dimming speeds
- Individual and predefined sequences (e.g. TV Simulator)
- Repetition of sequences for automatic color control
- Suitable for 12/24V CV LED, 4A for each channel (Common Anode)
- **Parallel operation of 2 channels with 8A**
- **Selectable load distribution**
  (4 channels with 4A or 3 channels with 3A / 1 channel 7A)
- **Operating modes: 4 x White, RGB, RGBW, Tunable White**
- **Automatic color temperature control Dim2Warm**
- **Dynamic daylight control HCL**
  (Human Centric Lighting)
- **Automatic time-dependent dimming**
- **Day/night function**
- Overcurrent and overtemperature supervision
- Intelligent 16A C-Load Relay output to control external
  LED power supply
- 3 years warranty
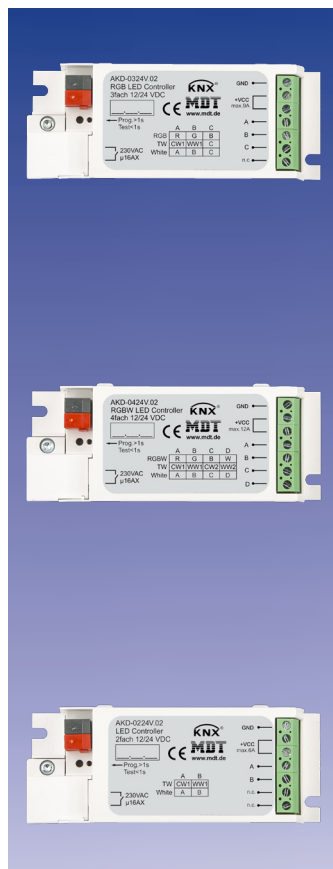
RGB LED Controller	AKD-0324V.02	B	188,00 €
Suitable for 12/24V RGB CV LED or 3 separate channels	**NEW SERIES**		

- **Extensive function extension**
- Absolute and relative dimming for **HSV color space** and RGB
- Tunable White color temperature control
- Selectable dimming curve and PWM frequency up to **1000Hz**
- Global and individual dimming speeds
- Individual and predefined sequences (e.g. TV Simulator)
- Suitable for 12/24V CV LED, 3A for each channel (Common Anode)
- **Parallel operation and selectable load distribution**
- **Operating modes: 3 x White, RGB, Tunable White**
- **Automatic color temperature control Dim2Warm**
- **Dynamic daylight control HCL**
  (Human Centric Lighting)
- **Automatic time-dependent dimming**
- **Day/night function**
- Overcurrent and overtemperature supervision
- Intelligent 16A C-Load Relay output to control external
  LED power supply
- 3 years warranty

RGBW LED Controller	AKD-0424V.02	B	208,00 €
For RGBW CV LED or 4 separate channels	**NEW SERIES**		
LED Controller 2-channel	AKD-0224V.02	B	138,00 €
For white CV LED or 2 separate channels	**NEW SERIES**		

![MDT technologies logo]

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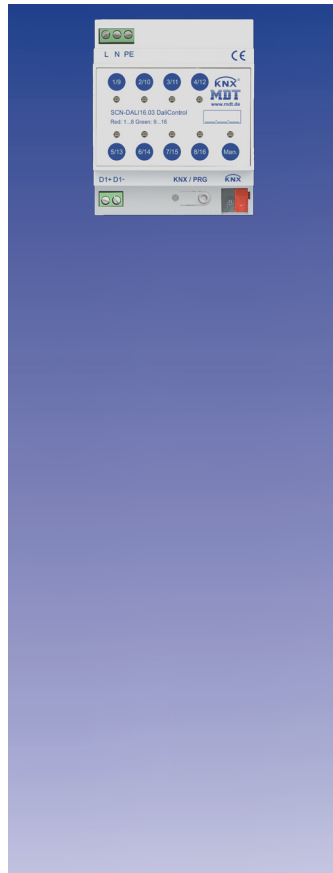
| Article Description	Art.No.	PG	List Price
DaliControl Gateway, 4SU MDRC	SCN-DALI16.03	B	355,00 €

With dimmable color adjustment by HSV control
Controls up to 64 Dali ECG in 16 channels/light groups

NEW

- Supports different DALI ECG
- **Control of up to 16 channels / light groups** (switching, dimming, and brightness value)
- **Innovative HSV color control, RGB, RGBW and XY color according to Dali DT8 standard**
- **Tunable White, color temperature control**
- **Integrated color control module for at time dependent controlling of the luminous color** in up to 300 steps
- Operation modes like normal operation, continuous operation, night operation, stairwell operation and panic operation
- Manual operation for all 16 groups
- 16 scenes with individual dimming times
- **Energy saving function for switching off the ECGs** (via additional KNX switch actuator)
- Fault detection of lamp faults and faulty ECGs
- Quick exchange of ECG
- **Free DCA app for commissioning** the DALI bus system and configuration of the scenes and time control
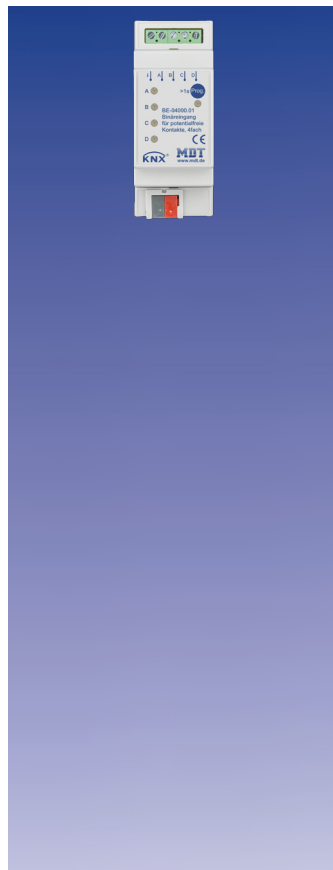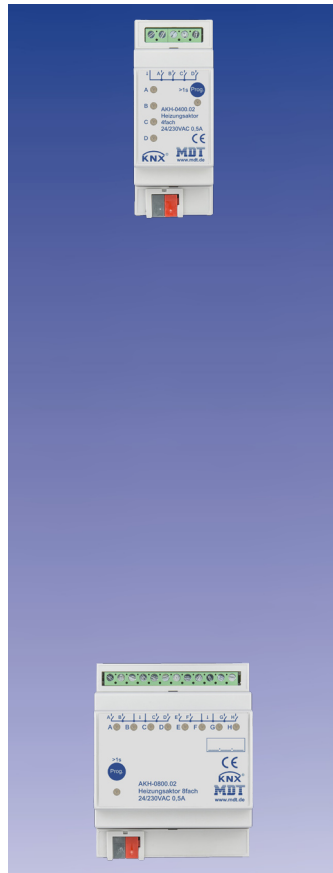- 3 years warranty
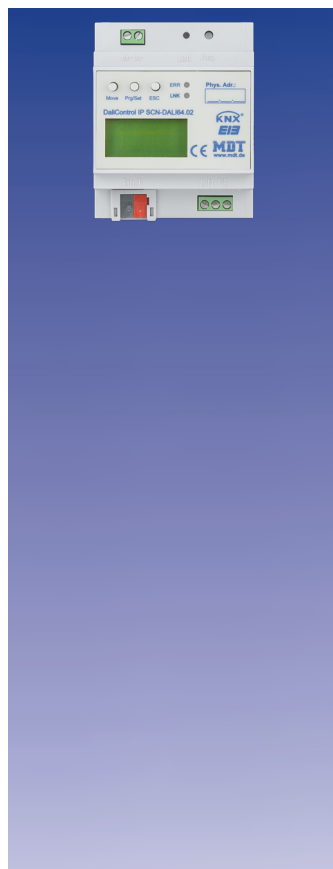
DaliControl IP Gateway with webinterface, 4SU MDRC	SCN-DALI64.02	B	462,00 €

Controls up to 64 Dali ECG

- Supports different DALI ECG
- **Individual control up to 64 ECG**
- Dimming curve matches the human perception
- Simultaneous dimming
- Tracking of operating hours and switch cycles
- Display and reporting of light and ECG errors
- 16 scenes adjustable, integrated effect module
- Control of battery light emergency lights (EN62386-202)
- Simple change of the configuration without using ETS
- Setting of light scenes without any KNX modules
- Simple group attribution directly on the device
- **Dali commissioning via Webbrowser or directly on the device display**
- Control up to 16 groups (switching or dimming)
- Automatic burn in for each ECG
- **Extensive application with ETS plug-in**
- 3 years warranty

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DIN EN ISO 9001
TAW Cert
Zert.Nr.1905606

Article Description	Art.No.	PG	List Price
Heating Actuator 4-fold, 2SU MDRC, 24-230VAC	AKH-0400.02	A	183,00 €

Heating Actuator to control electrothermic valve drives
LED indicator for each channel

- **Extensive function extension**
- Each channel controls up to 4 electrothermic valve drives (230VAC)
- Controllable with 1Bit (Switching/PWM) / 1Byte actuating variable or direct control with temperature value via KNX bus
- **Integrated PI temperature controller (Heating and Cooling)**
- Given value is stored at voltage failure
- 1Bit +/-, 1Byte or 2Byte absolute object to set the given value
- Comfort-, night- and frost protection. Summer-/winter operation
- Emergency operation if cyclic actuating variable fails
- Short circuit detection of connected load
- Detection of 230VAC mains voltage failure
- Objects for heating request and cyclic movement of the valves
- **Extensive scene functions**
- **Minimum flow temperature**
- **Diagnostics for each channel with 14Byte plain text object**
- Quick application download (long frame support for ETS5)
- 3 years warranty

Heating Actuator 8-fold, 4SU MDRC, 24-230VAC	AKH-0800.02	A	214,00 €

Heating Actuator to control electrothermic valve drives

Binary Input 4-fold, 2SU MDRC, Contact Inputs	BE-04000.01	A	168,00 €

Binary Input to read out floating contacts
LED indicator for each channel, max. input cable length 100m

- To connect **push buttons or window/auxiliary contacts**
- **4 integrated logical modules**, e.g. interpretation of the inputs (e.g. window closed or sending second object)
- NO or NC contact operation, sending contact state
- Operation of blinds and shutters, 1 and 2 button operation
- Forced setting function for each output
- Scenes, block communication object for each channel
- Operation with short/long button push and 2 objects
- Counting of pulses, suitable for 30ms S0 pulses
- Cyclical sending, sending after reset
- Internal contact voltage 12V
- 3 years warranty

Binary Input 4-fold, 2SU MDRC, Inputs 24VAC/DC	BE-04024.01	A	168,00 €

Input detection of 12-24VAC/DC signals

Binary Input 4-fold, 2SU MDRC, Inputs 230VAC	BE-04230.01	A	168,00 €

Input detection of 230VAC signals

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DIN EN ISO 9001
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Article Description	Art.No.	PG	List Price
Binary Input 8-fold, 4SU MDRC, Contact Inputs	BE-08000.01	A	228,00 €
Binary Input to read out floating contacts			
LED indicator for each channel, max. input cable length 100m			

- To connect **push buttons or window/auxiliary contacts**
- **4 integrated logical modules**, e.g. interpretation of the inputs (e.g. window closed or sending second object)
- NO or NC contact operation, sending contact state
- Operation of blinds and shutters, 1 and 2 button operation
- Forced setting function for each output
- Scenes, block communication object for each channel
- Operation with short/long button push and 2 objects
- Counting of pulses, suitable for 30ms S0 pulses
- Cyclical sending, sending after reset
- Internal contact voltage 12V
- 3 years warranty

Binary Input 8-fold, 4SU MDRC, Inputs 24VAC/DC	BE-08024.01	A	228,00 €
Input detection of 12-24VAC/DC signals			
Binary Input 8-fold, 4SU MDRC, Inputs 230VAC	BE-08230.01	A	228,00 €
Input detection of 230VAC signals			
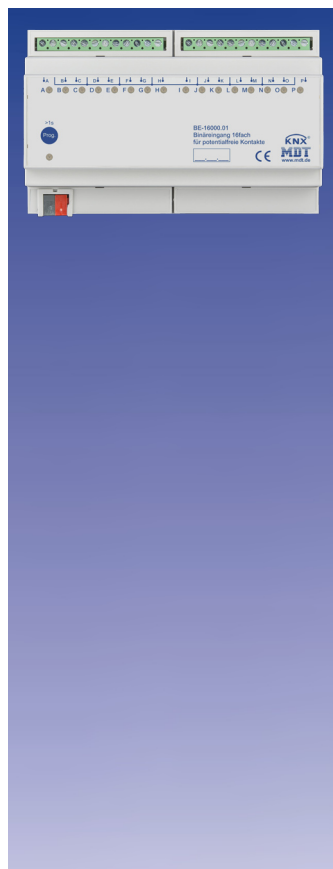
Binary Input 16-fold, 8SU MDRC, Contact Inputs	BE-16000.01	A	348,00 €
Binary Input to read out floating contacts			
LED indicator for each channel, max. input cable length 100m			

- To connect **push buttons or window/auxiliary contacts**
- **4 integrated logical modules**, e.g. interpretation of the inputs (e.g. window closed or sending second object)
- NO or NC contact operation, sending contact state
- Operation of blinds and shutters, 1 and 2 button operation
- Forced setting function for each output
- Scenes, block communication object for each channel
- Operation with short/long button push and 2 objects
- Counting of pulses, suitable for 30ms S0 pulses
- Cyclical sending, sending after reset
- Internal contact voltage 12V
- 3 years warranty

Binary Input 16-fold, 8SU MDRC, Inputs 24VAC/DC	BE-16024.01	A	348,00 €
Input detection of 12-24VAC/DC signals			
Binary Input 16-fold, 8SU MDRC, Inputs 230VAC	BE-16230.01	A	348,00 €
Input detection of 230VAC signals			
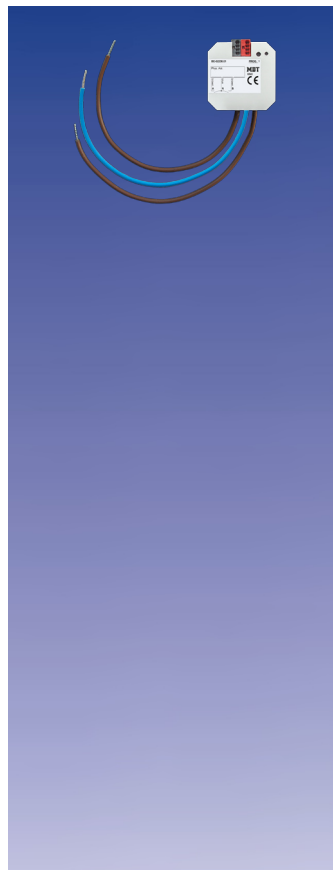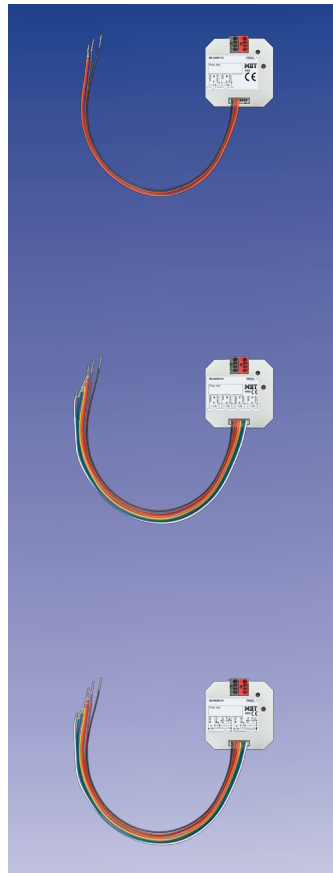
Article Description	Art.No.	PG	List Price
Universal Interface 2-fold, flush mounted, Contact Inputs Binary Input to read out floating contacts or LED output Flush mounted, max cable length 5m	BE-02001.01	A	49,00 €

- To connect **push-buttons or window/auxiliary contacts**
- Each output can be set as 1,5mA output for low current LED
- **4 integrated logical modules**, e.g. interpretation of the inputs
  (e.g. window closed or sending second object)
- NO or NC contact operation, adjustable length of button push
- Operation of blinds and shutters, 1 and 2 button operation
- Forced setting function for each output
- Operation with short/long button push and 2 objects
- Counting of pulses
- Cyclical sending of contact state adjustable
- Flush mounted (length of connection cables: 22cm)
- Dimensions (W x H x D): 41mm x 41mm x 12mm
- Integrated bus coupling unit
- 3 years warranty

Article Description	Art.No.	PG	List Price
Universal Interface 4-fold, flush mounted, Contact Inputs Binary Input to read out floating contacts or LED output	BE-04001.01	A	68,00 €
Universal Interface 6-fold, flush mounted, Contact Inputs Binary Input to read out floating contacts or LED output	BE-06001.01	A	88,00 €

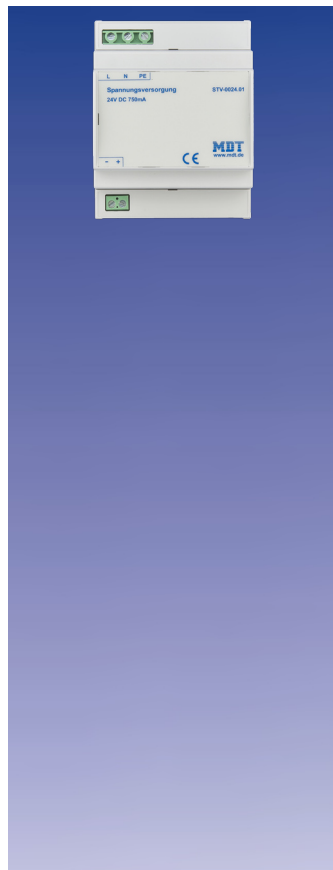| Article Description	Art.No.	PG	List Price
Universal Interface 2-fold, flush mounted, Inputs 230VAC Input detection of **230VAC** signals Flush mounted, max cable length 100m	BE-02230.01	A	88,00 €

- To connect **230V push-buttons, switches, presence detectors**
- **4 integrated logical modules**, e.g. interpretation of the inputs
  (e.g. window closed or sending second object)
- NO or NC contact operation, adjustable length of button push
- Operation of blinds and shutters, 1 and 2 button operation
- Forced setting function for each output
- Operation with short/long button push and 2 objects
- Counting of pulses
- Cyclical sending of contact state adjustable
- Flush mounted (length of connection cables: 22cm)
- Dimensions (W x H x D): 41mm x 41mm x 22mm
- Integrated bus coupling unit
- 3 years warranty

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Article Description	Art.No.	PG	List Price
Bus power supply, 2SU MDRC, 160mA	STV-0160.02	A	134,00€
Nominal current 160mA, continuous current 240mA, peak 320mA	NEW SERIES		

- KNX power supply with integrated choke
- Mains voltage 230VAC
- **Short-circuit-proof**
- **Overload safe**
- Temperature control with shutdown at over temperature
- LED indicator for bus reset, normal operation and bus overload
- 3 years warranty

Bus power supply, 2SU MDRC, 320mA	STV-0320.02	A	174,00 €
Nominal current 320mA, continuous current 480mA, peak 640mA	NEW SERIES		

Bus power supply, 4SU MDRC, 640mA	STV-0640.02	A	244,00 €
With additionally choke free output			
Nominal current 640mA, continuous current 960mA, peak 1200mA			

Power supply, 4SU MDRC, 750mA, 24VDC SELV	STV-0024.01	C	68,00 €
Nominal current 750mA			

- SELV Power supply 24VDC for **general** purpose
- Suited for **VisuControl Touchpanel**
- Mains voltage 230VAC
- **Short-circuit-proof**
- 3 years warranty

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Article Description	Art.No.	PG	List Price
Bus Power Supply with diagnosis function, 4SU MDRC, 640mA Nominal current 640mA, continuous current 960mA, peak 1200mA	STC-0640.01	A	299,00 €

- KNX power supply with integrated choke
- Mains voltage 230VAC
- **Short-circuit-proof**
- **Overload safe**
- With additionally choke free output
- **Integrated bus coupling unit with diagnosis function:**
  - Bus voltage, bus current, bus overload
  - Bus voltage failure/return
  - All events are stored with time stamp in a ring buffer
  - Read out of the ring buffer by 14Byte telegram
  - Safety functions to detect a failed device in the KNX line
- 3 years warranty

Article Description	Art.No.	PG	List Price
Bus Power Supply with diagnosis function, 6SU MDRC, 960mA Nominal current 960mA, continuous current 1280mA, peak 1600mA	STC-0960.01	A	349,00 €
Bus Power Supply with diagnosis function, 6SU MDRC, 1280mA Nominal current 1280mA, continuous current 1600mA, peak 1900mA	STC-1280.01	A	389,00 €

Article Description	Art.No.	PG	List Price
Redundant Bus Power Supply with diagnosis function to increase operation reliability, 6SU MDRC, 640mA Nominal current 640mA, continuous current 960mA, peak 1200mA	STR-0640.01	A	368,00 €

- KNX power supply with integrated choke
- **Two integrated power supplies for redundancy**
- Mains voltage 230VAC (separate FI circuits possible)
- **If one mains voltage or one of the internal power supplies fails, the KNX bus voltage keeps stable by the second power supply**
- Failure message by a telegram
- **Short-circuit-proof**
- **Overload safe**
- With additionally choke free output
- **Integrated bus coupling unit with diagnosis function:**
  - Bus voltage, bus current, bus overload
  - Bus voltage failure/return
  - All events are stored with time stamp in a ring buffer
  - Read out of the ring buffer by 14Byte telegram
  - Safety functions to detect a failed device in the KNX line
- 3 years warranty

Article Description	Art.No.	PG	List Price

USB Interface, 2SU MDRC
MDRC device

SCN-USBR.02   B   166,00 €
NEW SERIES

- To enable bidirectional communication between PC and KNX bus via USB
- Fully compatible to ETS3/4/5
- **PC sleepmode is supported**
- **Firmware can be updated**
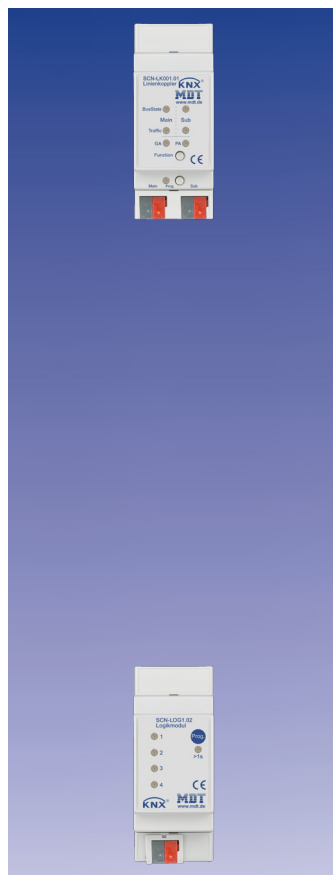- Quick application download (long frame support for ETS5)
- 3 years warranty
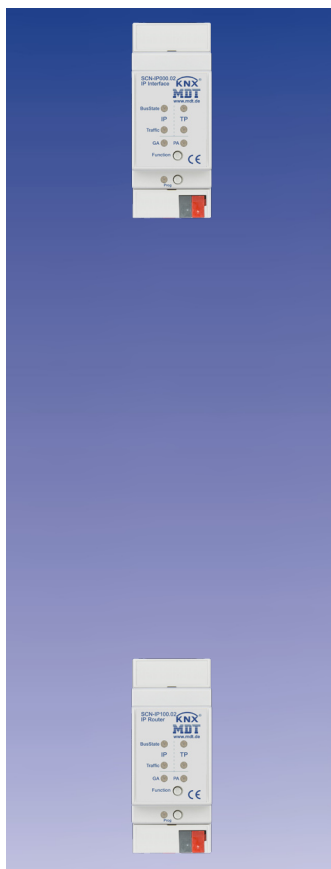
IP Interface, 2SU MDRC
With email and time server functions

SCN-IP000.02   B   206,00 €

- To enable bidirectional communication between PC and the KNX bus via TCP/IP
- 4 simultaneous connections possible
- Programming the KNX bus via TCP/IP
- **Power supply by KNX bus, no external bus power supply required**
- **Encrypted transmission at sending emails**
- **Time server functions to send time and date on the KNX bus**
- Firmware can be updated
- Quick application download (long frame support for ETS5)
- 3 years warranty

IP Router, 2SU MDRC
With email and time server functions
Operation as line coupler via TCP/IP

SCN-IP100.02   B   328,00 €

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Line Coupler, 2SU MDRC   SCN-LK001.01   B   249,00 €
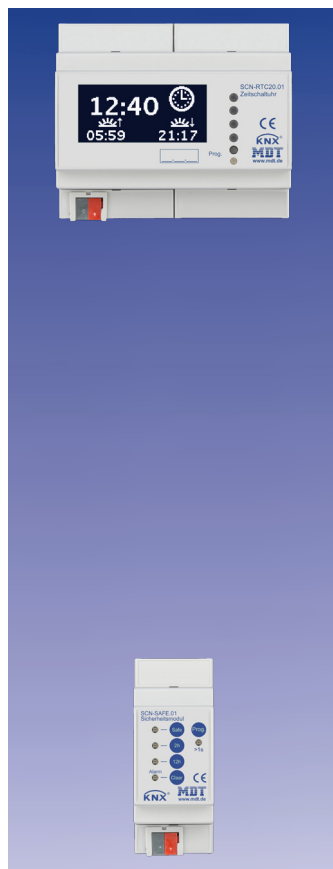MDRC device

- Line Coupler to connect two KNX lines to each other
- Electrical isolation between the lines
- Separate bus power supply for each line required
- Filter functions to reduce bus load
- Quick application download (long frame support for ETS5)
- 3 years warranty

Logical Module, 2SU MDRC   SCN-LOG1.02   B   148,00 €
MDRC device, with 4 free to use LED indicators   **NEW SERIES**

- **24 independent function blocks assignable:**
- Universal logic with up to 5 conditions
- Logic gates with (AND,OR/XOR), each with 8 inputs
- Cyclical sending or polling of values
- Storing of values if the bus voltage fails
- Monitoring of telegrams, Filter functions
- Converting of data point types, Time functions
- Multiplexer/Partition control
- Min-/Max/Average value, Universal calculator
- Converting to PWM, Telegram multiplier/sequencer
- Quick application download (long frame support for ETS5)
- 3 years warranty

Time Switch 20-channel with LCD display, 6SU MDRC   SCN-RTC20.01   B   188,00 €
MDRC device

- Time switch with 20 channels (6 cycle times each channel)
- Direct switching of the 20 channels (Manual Mode)
- Daily/weekly/astro switching function
- Large LCD Display, Power reserve
- Cycle time adjustable by the ETS and directly at the device
- Cyclic sending of the time on the KNX bus (Master)
- Clock time adjustment by bus telegram (Slave)
- 8 logical blocks with 4 input
- 3 years warranty

Safety Module, 2SU MDRC   SCN-SAFE.01   B   148,00 €
MDRC device   **NEW**
     07/2017

- Blocks the connection and prevents the programming and
  unloading of KNX devices within the line
- Safety function can be disabled temporary by pressing the button
  on the device or 14Byte telegram
- Safety functions to detect a failed device in the KNX line
- 3 years warranty

Article Description	Art.No.	PG	List Price
Temperature Controller 6-fold, 2SU MDRC	SCN-RT6REG.01	B	196,00 €

MDRC device
Temperature range -20 to +110°C

- Selectable temperature controller (PI, Two-position, PWM)
- Temperature measurement by separate KNX temperature sensors
- Limit values min/max
- Frost-/heat protection alarm
- Min/max memory
- Cyclical sending adjustable
- Day-/night-/frost-/heat protection operation, cooling function
- Status feedback by HVAC and RHCC status objects
- Operation mode can be set via Bit/Byte objects
- Desired value can be given by visualisation, e.g. MDT VisuControl
- 3 years warranty

Temperature Controller/Sensor 2-fold, flush mounted	SCN-RT2UP.01	B	108,00 €

Temperature measurement by separate PT 1000 sensors
To measure the inside/outside temperature
(e.g. with SCN-PTST1.01 or SCN-PTST3.01)

Temperature Controller/Sensor 4-fold, flush mounted	SCN-RT4UP.01	B	128,00 €

Temperature measurement by separate PT 1000 sensors
To measure the inside/outside temperature
(e.g. with SCN-PTST1.01 or SCN-PTST3.01))

Temperature Controller/Sensor 6-fold, surface mounted	SCN-RT6AP.01	B	198,00 €

Surface mounted device for PT 1000 sensors up to 12m cable length
Temperature range -20 to +110°C

- 6-fold temperature sensor for HVAC, integrated controller
- Selectable temperature controller (PI, Two-position, PWM)
- Temperature measurement by separate PT 1000 sensors
- Limit values min/max, frost-/heat protection alarm, min/max memory
- Cyclical sending of contact state adjustable
- Day-/night-/frost-/heat protection operation, cooling function
- Status feedback by HVAC and RHCC status objects
- Operation mode can be set via Bit/Byte objects
- Desired value can be given by visualisation, e.g. MDT VisuControl
- Surface mounted wiring box
- Integrated bus coupling unit
- 3 years warranty

Temperature Sensor PT 1000 standard	SCN-PTST1.01	B	14,00 €

Dimensions: 4mm x 30mm. With 1m cable

Temperature Sensor PT 1000 standard	SCN-PTST3.01	B	19,00 €

Dimensions: 6mm x 50mm. With 3m cable

Temperature Sensor PT 1000 strap on installation	SCN-PTAN3.01	B	32,00 €

Dimensions: 8mm x 40mm. With 3m cable

Temperature Sensor PT 1000 ceiling installation	SCN-PTDE0.01	B	43,00 €

Cut out diameter: 23mm, Depth: 28mm

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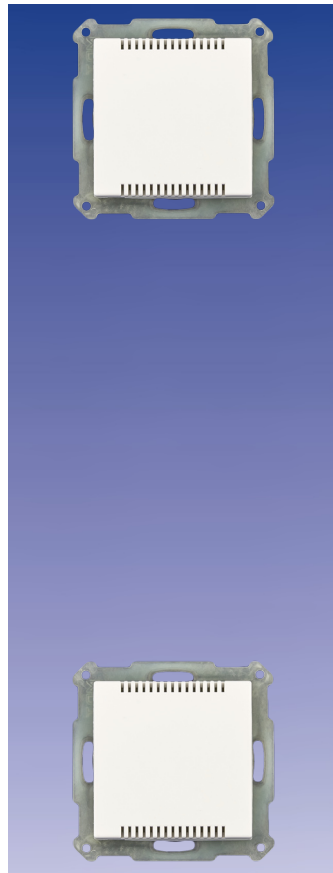
Article Description		Art.No.	PG	List Price
Room Temperature Controller 1-fold, White	Matt finish	SCN-RT1UP.01	B	108,00 €
Flush mounted. **Integrated BCU**	Shiny finish	SCN-RT1UP.G1	B	112,00 €
		NEW 06/2017		

- Fits 55mm systems:
  - GIRA Standard 55, E2,E22, Event, Esprit
  - BERKER S1, B3, B7
  - JUNG A500, Aplus, Acreation, AS500
  - MERTEN 1M, M-Smart, M-Plan, M-Pure
- Selectable temperature controller (PI, Two-position, PWM)
- Given value is stored at voltage failure
- Bit/Byte object to set the given value
- For indoor temperature controlling, range -10 to +50°C
- Limit values min/max, frost-/heat protection alarm, min/max memory
- Desired value can be given by visualisation, e.g. MDT VisuControl
- Day-/night-/frost-/heat protection operation
- Status feedback by HVAC and RHCC status objects
- Operation mode can be set via Bit/Byte objects
- Installation with support ring (included in delivery)
- Integrated bus coupling unit
- 3 years warranty

Article Description		Art.No.	PG	List Price
Room Temperature Sensor 1-fold, White	Matt finish	SCN-TS1UP.01	B	92,00 €
Flush mounted. **Integrated BCU**	Shiny finish	SCN-TS1UP.G1	B	96,00 €
Without controller function		**NEW 06/2017**		
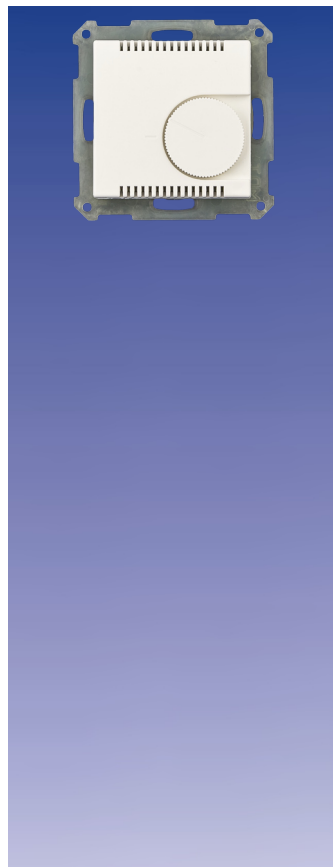
Article Description	Art.No.	PG	List Price
Room Temperature Controller 1-fold, adjustable, White Matt finish	SCN-RT1UPE.01	B	118,00 €
Flush mounted. **Integrated BCU** Shiny finish	SCN-RT1UPE.G1	B	122,00€
With adjustment knob to set desired value	**NEW 06/2017**		

- Fits 55mm systems:
  - GIRA Standard 55, E2,E22, Event, Esprit
  - BERKER S1, B3, B7
  - JUNG A500, Aplus, Acreation, AS500
  - MERTEN 1M, M-Smart, M-Plan, M-Pure
- Selectable temperature controller (PI, Two-position, PWM)
- Given value is stored at voltage failure
- Bit/Byte object to set the given value
- For indoor temperature controlling, range -10 to +50°C
- Limit values min/max, frost-/heat protection alarm, min/max memory
- Desired value can be given by visualisation, e.g. MDT VisuControl
- Day-/night-/frost-/heat protection operation
- Status feedback by HVAC and RHCC status objects
- Operation mode can be set via Bit/Byte objects
- Installation with support ring (included in delivery)
- Integrated bus coupling unit
- 3 years warranty

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Article Description	Art.No.	PG	List Price

Air quality Sensor, White matt finish
VOC gas sensor with calculation to carbon oxide equivalent
Integrated BCU

SCN-MGSUP.01   B   238,00 €

- Fits 55mm systems:
  - GIRA Standard 55, E2,E22, Event, Esprit
  - BERKER S1, B3, B7
  - JUNG A500, Aplus, Acreation, AS500
  - MERTEN 1M, M-Smart, M-Plan, M-Pure
- Integrated temperature controller (PI, Two-position, PWM)
- Temperature limit values min/max, frost protection alarm
- Air quality limit value
- PI controller to regulate air quality
- 4 stage controller to switch HVAC with single object for each stage
- Measurement range from 400-2000ppm
- 4 objects to display the air quality in
  visualizations (e.g. green, yellow, orange, red)
- Day/night objekt
- Installation with support ring in wind sealed socket
- Power supply via KNX bus without auxiliary voltage
- Integrated bus coupling unit
- 3 years warranty

LED Indicator 55mm, White matt finish
With 12 RGB LED, **Integrated BCU**

SCN-LED55.01   B   128,00 €

- Fits 55mm systems:
  - GIRA Standard 55, E2,E22, Event, Esprit
  - BERKER S1, B3, B7
  - JUNG A500, Aplus, Acreation, AS500
  - MERTEN 1M, M-Smart, M-Plan, M-Pure
- 12 independently switchable RGB LED
- Centered title block with cover film for individual marking
- 3 objects for each LED
- 4 states for each LED possible (value=0, value=1,
  priority object=1, failure of an object)
- 8 logical blocks with 8 inputs each (8 objects)
- 4 modules to compare telegrams
- Brightness in 2 steps adjustable
- Day/night object
- Deactivation/reduction of the brightness
- Presence/absence object
- Drop out monitoring for objects with report function
- Object with report function (e.g. absence or window opened)
- Integrated bus coupling unit
- 3 years warranty
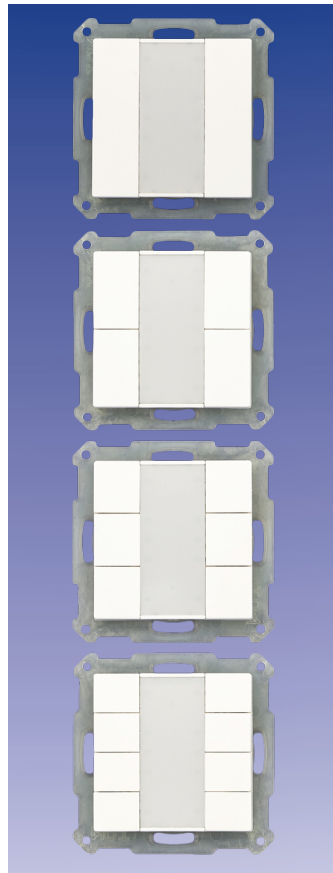
Article Description		Art.No.	PG	List Price
Push Button 2-fold, White	Matt finish	BE-TA5502.01	A	77,00 €
With 2 rockers. **Integrated BCU**	Shiny finish	BE-TA5502.G1	A	79,00 €

- Fits 55mm systems:
  - GIRA Standard 55, E2,E22, Event, Esprit
  - BERKER S1, B3, B7
  - JUNG A500, Aplus, Acreation, AS500
  - MERTEN 1M, M-Smart, M-Plan, M-Pure
- Push Buttons can be adjusted for 1 or 2 button operation
- NO or NC contact operation, adjustable length of button push
- Forced setting function for each output
- Operation with short/long button push and 2 objects
- Operation of blinds and shutters, 1 and 2 button operation
- Centered title block with cover film for individual marking
- **Integrated bus coupling unit**
- 3 years warranty

Push Button 4-fold, White	Matt finish	BE-TA5504.01	A	87,00 €
With 4 rockers	Shiny finish	BE-TA5504.G1	A	89,00€
Integrated BCU				
Push Button 6-fold, White	Matt finish	BE-TA5506.01	A	97,00 €
With 6 rockers	Shiny finish	BE-TA5506.G1	A	99,00 €
Integrated BCU				
Push Button 8-fold, White	Matt finish	BE-TA5508.01	A	107,00 €
With 8 rockers	Shiny finish	BE-TA5508.G1	A	109,00 €
Integrated BCU				
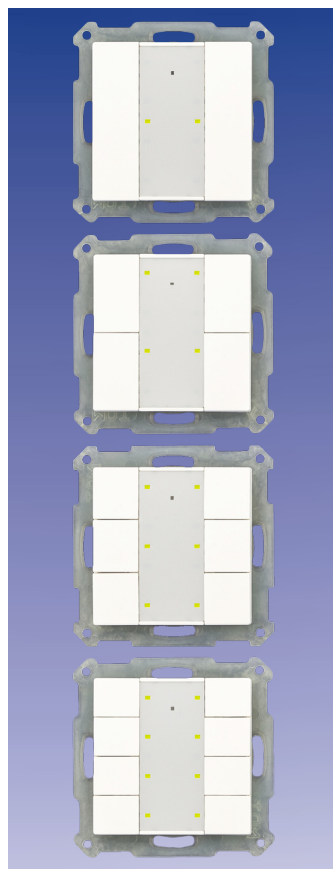
Push Button 2-fold Plus, White	Matt finish	BE-TA55P2.01	A	105,00 €
With 2 rockers and **LED** for	Shiny finish	BE-TA55P2.G1	A	107,00 €
operation, status and orientation. **Integrated BCU**				

- Fits 55mm systems:
  - GIRA Standard 55, E2,E22, Event, Esprit
  - BERKER S1, B3, B7
  - JUNG A500, Aplus, Acreation, AS500
  - MERTEN 1M, M-Smart, M-Plan, M-Pure
- Push Buttons can be adjusted for 1 or 2 button operation
- NO or NC contact operation, adjustable length of button push
- Forced setting function for each output
- Operation with short/long button push and 2 objects
- Operation of blinds and shutters, 1 and 2 button operation
- Centered title block with cover film for individual marking
- **Integrated bus coupling unit**, 3 years warranty

Push Button 4-fold Plus, White	Matt finish	BE-TA55P4.01	A	115,00 €
With 4 rockers and **LED**	Shiny finish	BE-TA55P4.G1	A	117,00 €
Integrated BCU				
Push Button 6-fold Plus, White	Matt finish	BE-TA55P6.01	A	125,00 €
With 6 rockers and **LED**	Shiny finish	BE-TA55P6.G1	A	127,00 €
Integrated BCU				
Push Button 8-fold Plus, White	Matt finish	BE-TA55P8.01	A	135,00 €
With 8 rockers und **LED**	Shiny finish	BE-TA55P8.G1	A	137,00 €
Integrated BCU				

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Article Description	Art.No.	PG	List Price
Glass Push Button 4-fold Plus, White	BE-GT04W.01	A	132,00 €

With 4 sensor areas and LED for operation and status
Surrounding orientation light. **Integrated BCU**

- Sensor areas can be adjusted for 1 or 2 button operation
- NO or NC contact operation, adjustable length of button push
- Forced setting function for each output
- Operation with short/long button push and 2 objects
- White/Red LED for each sensor area
- Brightness of LED adjustable in 5 steps via day/night object
- Operation of blinds and shutters, 1 and 2 button operation
- **Title block to insert behind glass front, labeling film included**
- Installation in socket
- Dimensions (W x H): 92mm x 92mm
- **Integrated bus coupling unit**
- 3 years warranty

Article Description	Art.No.	PG	List Price
Glass Push Button 4-fold Plus, Black	BE-GT04S.01	A	132,00 €
With 4 sensor areas and LED. **Integrated BCU**			
Glass Push Button 4-fold Plus, White, with Temperature Sensor	BE-GTT4W.01	A	162,00 €
With 4 sensor areas and LED. **Integrated BCU**			
With Temperature Sensor to measure room temperature			
Glass Push Button 4-fold Plus, Black, with Temperature Sensor	BE-GTT4S.01	A	162,00 €
With 4 sensor areas and LED. **Integrated BCU**			
With Temperature Sensor to measure room temperature			
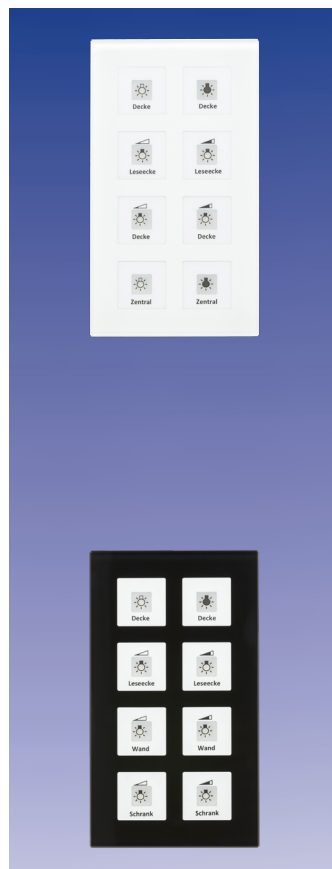
Article Description	Art.No.	PG	List Price
Glass Push Button 8-fold Plus, White	BE-GT08W.01	A	174,00 €

With 8 sensor areas and LED for operation and status
Surrounding orientation light. **Integrated BCU**

- Sensor areas can be adjusted for 1 or 2 button operation
- NO or NC contact operation, adjustable length of button push
- Forced setting function for each output
- Operation with short/long button push and 2 objects
- White/Red LED for each sensor area
- Brightness of LED adjustable in 5 steps via day/night object
- Operation of blinds and shutters, 1 and 2 button operation
- **Title block to insert behind glass front, labeling film included**
- Installation in socket
- Dimensions (W x H:): 92mm x 163mm
- **Integrated bus coupling unit**
- 3 years warranty

Article Description	Art.No.	PG	List Price
Glass Push Button 8-fold Plus, Black	BE-GT08S.01	A	174,00 €
With 8 sensor areas and LED. **Integrated BCU**			
Glass Push Button 8-fold Plus, White, with Temperature Sensor	BE-GTT8W.01	A	204,00 €
With 8 sensor areas and LED. **Integrated BCU**			
With Temperature Sensor to measure room temperature			
Glass Push Button 8-fold Plus, Black, with Temperature Sensor	BE-GTT8S.01	A	204,00 €
With 8 sensor areas and LED. **Integrated BCU**			
With Temperature Sensor to measure room temperature			

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Article Description	Art.No.	PG	List Price
Glass Push Button II Smart, White	**BE-GT20W.01**	**A**	**183,00 €**
With 6 sensor areas, **colored display** and RGB status indicator	NEW		
Suitable as 4/6/8/12-fold push button. Integrated BCU			

- The buttons can be adjusted for 1 or 2 button operation
- **4 buttons can be reserved with 2 or 3 function levels (8/12-fold)**
- 2 buttons to enter the function levels directly
- **Large, colored active display to indicate function and status**
- **Adjustable background color of the display (white or black)**
- **Symbols and plain text adjustable for each button/function**
- 1 or 2 button operation for switching, dimming, shutters, values
- Short/long button push with 2 objects
- **RGB status for each button separate controlable from each level**
- Indication of inside/outside temperature and time
- Automatic display brightness via light sensor and day/night object
- **Slap function with additional switch channel**
- Recommended mounting height: 1,10 - 1,25m (as Push Button)
- Installation in socket, Dimensions (W x H): 92mm x 92mm
- No additional power supply required
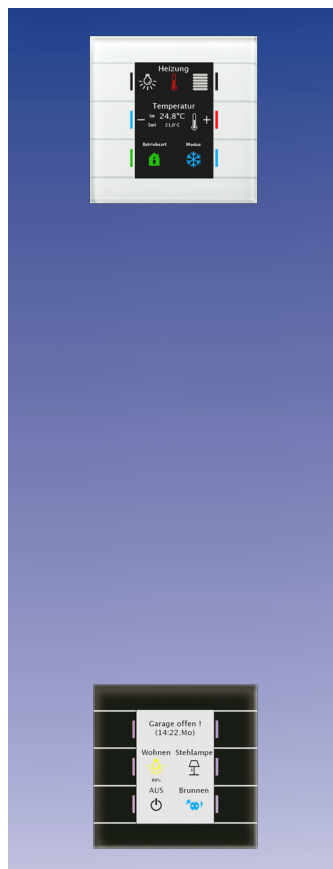- **Integrated bus coupling unit**
- 3 years warranty

Glass Push Button II Smart, Black	**BE-GT20S.01**	**A**	**183,00 €**
With 6 sensor areas, **colored display** and RGB status indicator	NEW		
Suitable as 4/6/8/12-fold push button. Integrated BCU			

Glass Push Button II Smart with temperature sensor, White	**BE-GT2TW.01**	**A**	**213,00 €**
With 6 sensor areas, **colored display** and RGB status indicator	NEW		
Suitable as 4/6/8/12-fold push button. Integrated BCU			

- The buttons can be adjusted for 1 or 2 button operation
- **4 buttons can be reserved with 2 or 3 function levels (8/12-fold)**
- 2 buttons to enter the function levels directly
- **Large, colored active display to indicate function and status**
- **Symbols and plain text adjustable for each button/function**
- **With temperature sensor to measure room temperature**
- **Additional functions to set temperature and operating mode**
- **Indication of individal messages/text telegrams (1Bit/14Byte)**
- **Application as RTC in combination with AKH heating actuator**
- 1 or 2 button operation for switching, dimming, shutters, values
- Short/long button push with 2 objects
- **RGB status for each button separate controlable from each level**
- Indication of inside/outside temperature and time
- Automatic display brightness via light sensor and day/night object
- **Slap function with additional switch channel**
- **Recommended mounting height: 1,50 - 1,60m** (as operating device)
- Installation in socket, Dimensions (W x H): 92mm x 92mm
- No additional power supply required
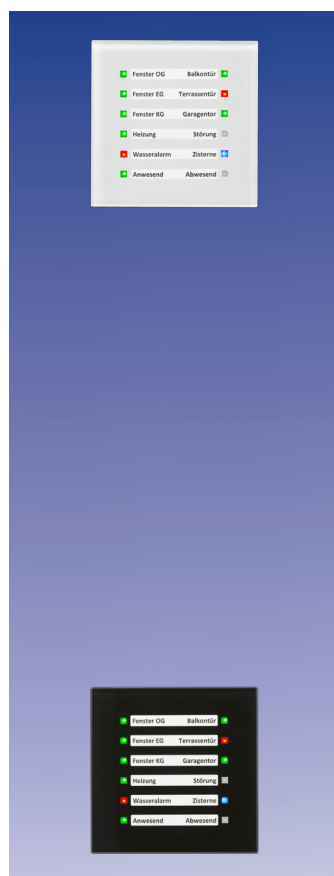- **Integrated bus coupling unit,** 3 years warranty

Glass Push Button II with temperature sensor, Black	**BE-GT2TS.01**	**A**	**213,00 €**
Suitable as 4/6/8/12-fold push button. Integrated BCU	NEW		

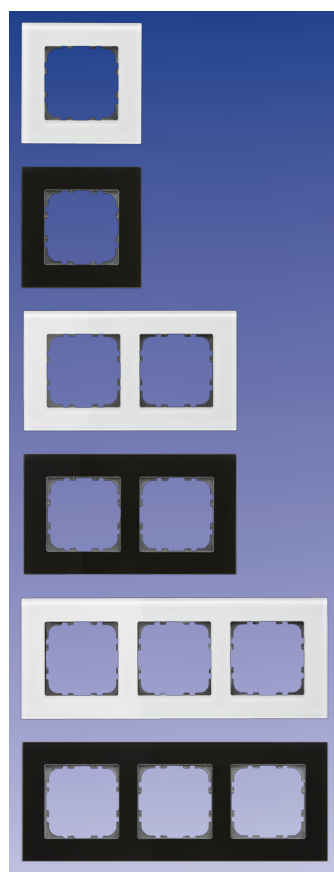| Article Description	Art.No.	PG	List Price
Glass LED Indicator, White With 12 RGB LED, **Integrated BCU**	SCN-GLED1W.01	B	148,00 €

- 12 independently switchable RGB LED
- **Title block to insert behind glass front, labeling film included**
- 3 objects for each LED
- 5 states for each LED possible (value=0, value=1, 2 priority objects, failure of an object)
- 8 logical blocks with 8 inputs each (8 objects)
- 4 modules to compare telegrams
- Brightness in 2 steps adjustable
- Day/night object
- Deactivation/reduction of the brightness
- Presence/absence object
- Drop out monitoring for objects with report function
- Object with report function (e.g. absence or window opened)
- Dimensions (W x H): 92mm x 92mm
- Integrated bus coupling unit
- 3 years warranty

Article Description	Art.No.	PG	List Price
Glass LED Indicator, Black Dimensions 92mm x 92mm. **Integrated BCU**	SCN-GLED1S.01	B	148,00 €
Glass cover frame 1-fold for 55 mm systems, White Dimensions (W x H): 92mm x 92mm	BE-GTR1W.01	A	27,00 €

- Fits 55mm systems:
    - MDT Push Buttons and Push Buttons Plus
    - GIRA Standard 55, E2,E22, Event, Esprit
    - BERKER S1, B3, B7
    - JUNG A500, Aplus, Acreation, AS500
    - MERTEN 1M, M-Smart, M-Plan, M-Pure

Article Description	Art.No.	PG	List Price
Glass cover frame 1-fold, Black Dimensions (W x H): 92mm x 92mm	BE-GTR1S.01	A	27,00 €
Glass cover frame 2-fold, White Dimensions (W x H): 92mm x 163mm	BE-GTR2W.01	A	37,00 €
Glass cover frame 2-fold, Black Dimensions (W x H): 92mm x 163mm	BE-GTR2S.01	A	37,00 €
Glass cover frame 3-fold, White Dimensions (W x H): 92mm x 234mm	BE-GTR3W.01	A	51,00 €
Glass cover frame 3-fold, Black Dimensions (W x H): 92mm x 234mm	BE-GTR3S.01	A	51,00 €
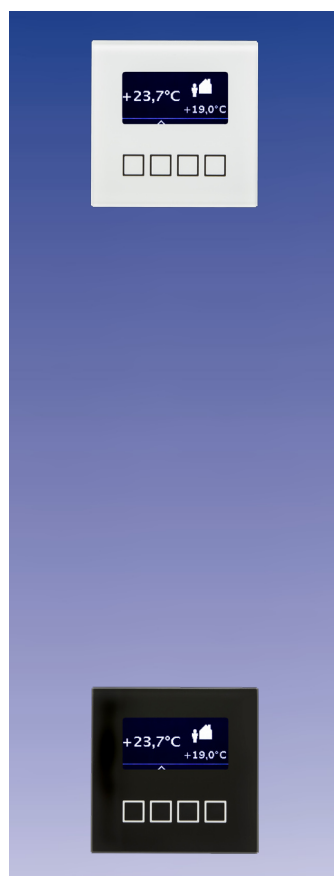
Article Description	Art.No.	PG	List Price
Glass Room Temperature Controller 1-fold, adjustable, White With 4 sensor areas. **Integrated BCU**	**SCN-RT1GW.01**	B	170,00 €

- **Large LCD Display (with automatic light intensity control)**
- Room temperature controller with temperature sensor -10 to +50°C
- Comfort-/night-/standby-/frost protection operation
- Selectable temperature controller (PI, Two-position, PWM)
- Status feedback by HVAC and RHCC status objects
- Limit values min/max, frost-/heat protection alarm, min/max memory
- Given value is stored at voltage failure
- **Indication of inside/outside temperature, desired value and time**
- **Indication of user defined messages (1Bit)**
- **Indication of text telegramms (14Byte)**
- **Two direct switching functions (e.g. light, shutter)**
- **Ventilation functions (hand or automatic)**
- Dimensions (W x H): 92mm x 92mm
- Recommended mounting height: 1,50 -1,60m
- Integrated bus coupling unit
- 3 years warranty

Article Description	Art.No.	PG	List Price
Glass Room Temperature Controller 1-fold, adjustable, Black With 4 sensor areas. **Integrated BCU**	**SCN-RT1GS.01**	B	170,00 €
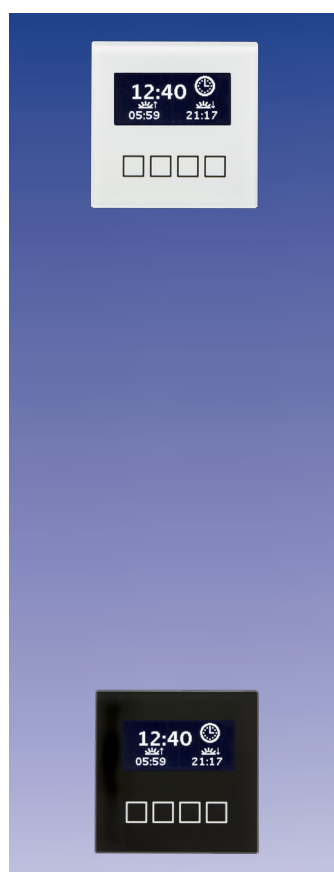
Article Description	Art.No.	PG	List Price
Glass Central Operation Unit with LCD display, White With 4 sensor areas. **Integrated BCU**	**SCN-LCDGW.01**	B	260,00 €

- **Large LCD Display (with automatic light intensity control)**
- Room temperature controller with temperature sensor -10 to +50°C
- Comfort-/night-/standby-/frost protection operation, holiday function
- Selectable temperature controller (PI, Two-position, PWM)
- Status feedback by HVAC and RHCC status objects
- Limit values min/max, frost-/heat protection alarm, min/max memory
- Given value is stored at voltage failure
- **Indication of inside/outside temperature, desired value and time**
- **Indication of user defined messages (1Bit)**
- **Indication of text telegramms (14Byte)**
- **Two direct switching functions (e.g. light, shutter)**
- **20 switching functions via menu (Dimming/shutter/switching/**
  sending of values/scenes/sending of given temperature value)
- **Ventilation functions (hand or automatic)**
- **Integrated time switch (20 channels with 6 circuit times each)**
- **Day-/Week-/Astro time switching function**
- 8 logical blocks with 4 inputs
- Dimensions (W x H): 92mm x 92mm, mounting height: 1,6m
- Integrated bus coupling unit
- 3 years warranty

Article Description	Art.No.	PG	List Price
Glass Central Operation Unit, Black With 4 sensor areas. **Integrated BCU**	**SCN-LCDGS.01**	B	260,00 €
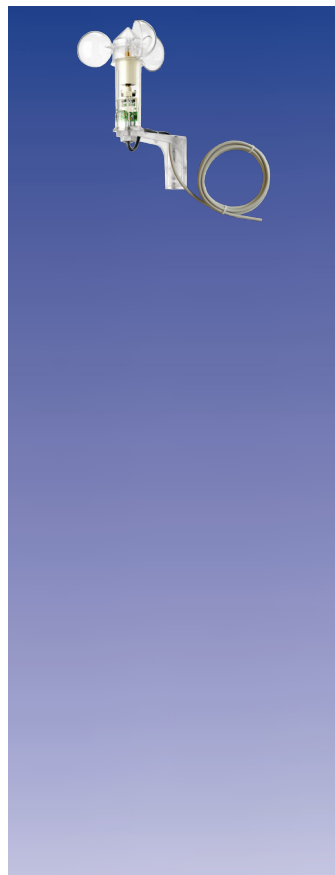
| Article Description	Art.No.	PG	List Price
Weather Station Home	SCN-WS3HW.01	B	328,00 €

Outdoor installation on wall or pole

- 3 channels for sun protection to control blind/shutter
- Sun protection up to 3 facades
- Offers wide functions to control facades (2 switching thresholds, teach in function)
- Central shutter control for Up/Down via brightness value (with time delay)
- Brightness value for east, south, west, twilight
- Generates a day/night object
- Wind speed value, alarm if wind speed exceeds limit
- Temperature value
- Suited to control facades at home
- Installation on wall or pole
- 5m connection cable
- No additional power supply required
- Integrated bus coupling unit
- 3 years warranty
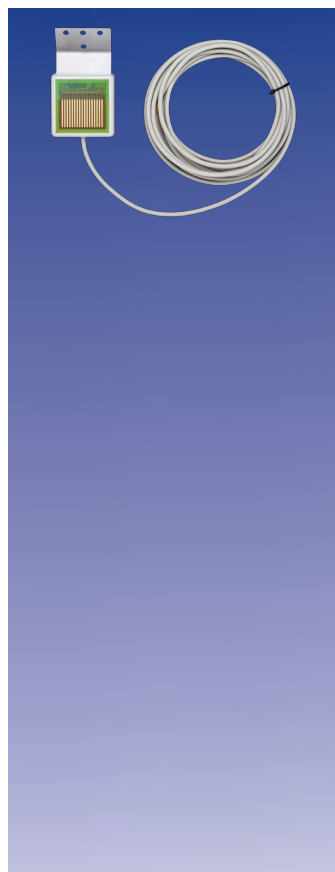
Article Description	Art.No.	PG	List Price
Rain Sensor	SCN-RS1R.01	B	148,00 €

Surface mounted, including fastening angle

- Automatic heating to keep the sensor area dry
- Heating operation by choke free output STV-640/STC series or external 24VDC power supply
- Current consumption of heating is less than 100mA
- 5m bus connection terminal
- Stainless fastening angle included in delivery
- Dimensions (W x H x D): 67mm x 67mm x 29mm
- Integrated bus coupling unit
- 3 years warranty

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Article Description	Art.No.	PG	List Price
Motion Detector/Automatic Switch , White matt finish	**SCN-BWM55.01**	**A**	**124,00 €**
Flush mounted. **Integrated BCU**	NEW		

- Fits 55mm systems:
  - GIRA Standard 55, E2,E22, Event, Esprit
  - BERKER S1, B3, B7
  - JUNG A500, Aplus, Acreation, AS500
  - MERTEN 1M, M-Smart, M-Plan, M-Pure
- **Motion detector with light sensor and 2 pyro detectors**
- Motion detection angle H 180° / V 15°, covered area 6-10m
- **Suitable for pets up to 12kg**
- Sensitivity separately adjustable for day/night/presence
- 2 light channels, 1 channel for HVAC and alarm
- **Detection of moving direction**
- Short time presence to reduce stopping time
- Master/slave function, scenes and logical functions
- **Objects for integr. night light**, green/red LED and brightness value
- Day/night function, orientation light function
- Block and forced setting functions with release time
- Input object for external button with release time
- Recommended mounting height: 1,05 - 1,10m
- Integrated bus coupling unit, 3 years warranty

Motion Detector/Automatic Switch , White shiny finish	**SCN-BWM55.G1**	**A**	**128,00 €**
Flush mounted. **Integrated BCU**	NEW		
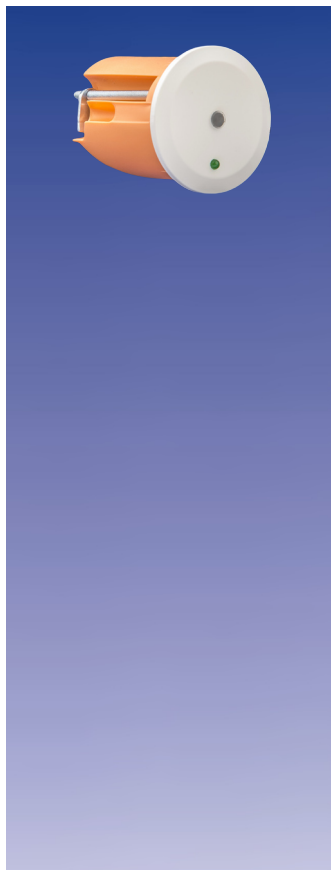
Brightness Sensor/Controller with constant level light intensity	**SCN-LSD01.01**	**A**	**128,00 €**
Ceiling mounted in 35mm Kaiser socket			

- Brightness Sensor with constant level light intensity to control up to 3 light rows.
- Brightness value can be read out
- Orientation light (Brightness and time adjustable)
- Day/night mode with separate settings
- 35mm Kaiser socket (Installation depth 45mm)
- Dimensions (W x H x D): 43mm x 43mm x 30mm
- Integrated bus coupling unit
- 3 years warranty

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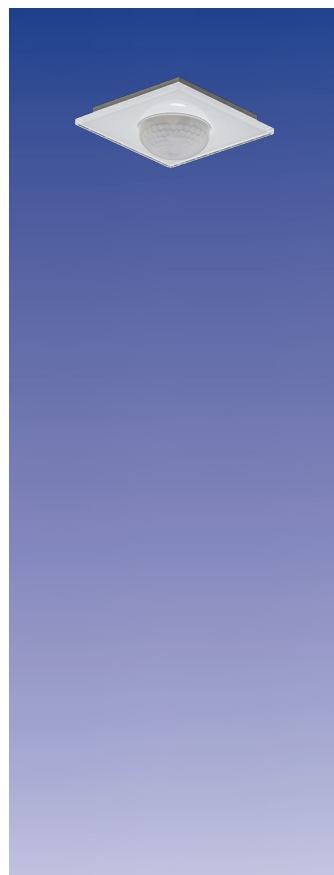
Article Description	Art.No.	PG	List Price
Glass Presence Detector 360°with 3 sensors, White	SCN-G360D3.02	A	158,00 €
Ceiling mounted in socket	**NEW SERIES**		

- **New application**
- White Glass front, **integrated temp. sensor**
- 3 pyro detectors with lens for presence detection
- Adjustable presence and presence sensitivity for
  day, night and alarm
- **3 light channels, sensors can be individually analyzed**
- 1 HVAC and 1 alarm / notification channel
- **Short time presence to reduce the after-running time**
- Input for an external push button with reset time
- **Intelligent switching function for automatic / manual operation**
- Blocking and forced function with release time
- Extensive day / night function with 2nd switching object
- Orientation light (brightness and time adjustable)
- **Avoiding of false reports for the alarm channel by reducing
  the sensitivity and adjustable observation window**
- 3 years warranty

Glass Presence Detector 360°, White, constant level light intensity	SCN-G360K3.02	A	178,00 €
Ceiling mounted in socket	**NEW SERIES**		
Intelligent constant level light intensity for 1 light row			

Presence Detector 360°with 3 sensors, White matt finish	SCN-P360D3.02	A	128,00 €
Ceiling mounted in socket	**NEW SERIES**		

- **New application**
- 3 pyro detectors with lens for presence detection
- Adjustable presence and presence sensitivity for
  day, night and alarm
- **3 light channels, sensors can be individually analyzed**
- 1 HVAC and 1 alarm / notification channel
- **Short time presence to reduce the after-running time**
- Input for an external push button with reset time
- **Intelligent switching function for automatic / manual operation**
- Blocking and forced function with release time
- Extensive day / night function with 2nd switching object
- Orientation light (brightness and time adjustable)
- **Avoiding of false reports for the alarm channel by reducing
  the sensitivity and adjustable observation window**
- 3 years warranty

Presence Detector 360°, constant level light intensity	SCN-P360K3.02	A	148,00 €
Ceiling mounted in socket	**NEW SERIES**		
Intelligent constant level light intensity for 1 light row			

Mounting frame Slimline	SCN-P360R3.01	A	9,00 €
Mounting frame for surface mounting of Presence Detector			
Dimensions (W x H x D): 75mm x 75mm x 14mm			

Article Description	Art.No.	PG	List Price
Presence Detector 360° with 4 sensors, White matt finish Ceiling mounted in socket	SCN-P360D4.02 **NEW SERIES**	A	148,00 €

- **New application**
- 4 pyro detectors with lens for presence detection
- Adjustable presence and presence sensitivity for day, night and alarm
- **4 light channels, sensors can be individually analyzed**
- 1 HVAC and 1 alarm / notification channel
- **Short time presence to reduce the after-running time**
- Input for an external push button with reset time
- **Intelligent switching function for automatic / manual operation**
- Blocking and forced function with release time
- Extensive day / night function with 2nd switching object
- Orientation light (brightness and time adjustable)
- **Avoiding of false reports for the alarm channel by reducing the sensitivity and adjustable observation window**
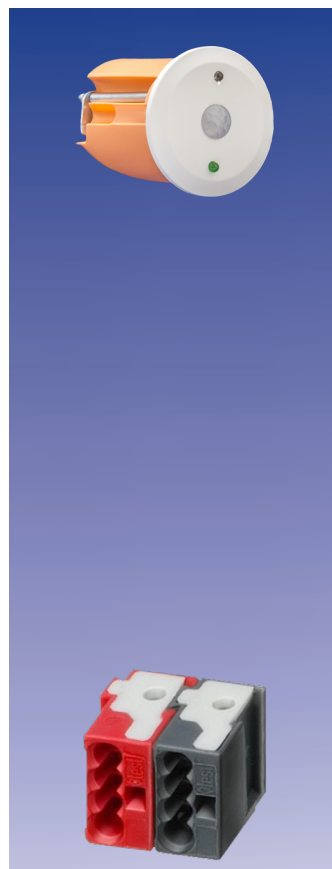- 3 years warranty

Presence Detector 360°, constant level light intensity Intelligent constant level light intensity for 3 light rows	SCN-P360K4.02 **NEW SERIES**	A	168,00 €
Mounting frame Slimline Mounting frame for surface mounting of Presence Detector Dimensions (W x H x D): 85mm x 85mm x 14mm	SCN-P360R4.01	A	9,00 €
Mini Presence Detector 360°, White matt finish Ceiling mounted in 35mm Kaiser socket	SCN-P360D1.01	A	118,00 €

- Presence detector with light sensor
- 1 pyro detector with high resolution lens
- Covered area presence 3-4m
- Switching function depending on brightness and movement
- Brighness value can be read out
- Master/slave function adjustable
- Scene functions
- Day/night function, monitoring with messages
- HVAC control channel (adjustable over a certain period)
- Block and forced setting functions
- Orientation light (Brightness and time adjustable)
- Lowerable sensitivity during night and for standby
- 35mm Kaiser socket included in delivery (Installation depth 45mm)
- Dimensions (W x H x D): 43mm x 43mm x 30mm
- Integrated bus coupling unit
- 3 years warranty

Bus Connector, packaging unit 50 pieces
Black/Red, for solid core cables 0,6-0,8mm²

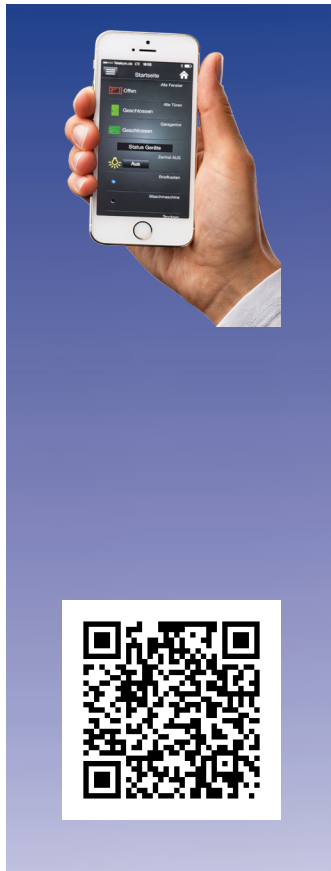|			
Busanschlußklemme VPE 50 Stück Schwarz/Rot, für massive Leiter von 0,6-0,8mm²	ZBUSKLE	C	18,20 €

| Article Description	Art.No.	PG	List Price

VisuControl Easy iPhone/iPad App
To visualize current building status and to control building functions via iOS app

With this app you can easily and reasonable manage and visualize your building. The VisuControl Easy object server connects your KNX bus system with your mobile Apple device.

The App displays the current conditions of open windows, temperatures and operating states.

The view can be sorted by functions and areas and is available in 2 different designs (black & white).

The App is available for free in the App Store.
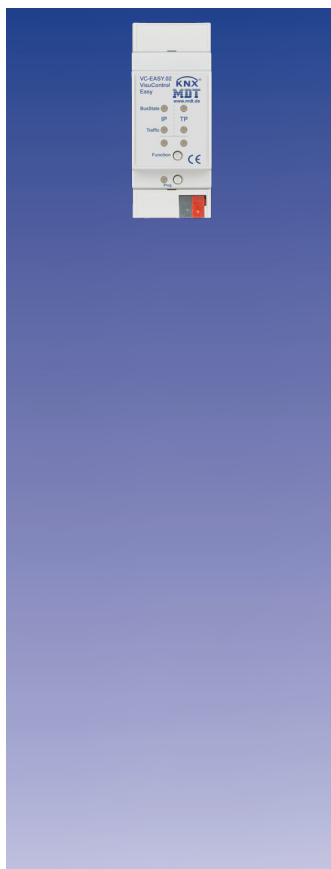
VisuControl Easy object server, with iPhone/iPad app	VC-EASY.02	C	518,00 €

To visualize current building status and to control building functions via **NEW SERIES** iOS app

- **VisuControl for KNX app available for free in app store**
- **Automatically customized iPhone and iPad view**
- **The app supports up to 4 object servers**
- **Up to 4 IP cameras per object server**
- **Integrated VPN support**
- **Possible to visualize up to 120 functions**
- Visualization and operation of lighting, blinds, room temperature, status, media data, weather data
- Graphical user interface is created automatically
- Individual arrangement in rooms, zones or groups
- **Email function for sending messages and status reports**
- **IP Interface (4 connections at the same time, bus programming)**
- **Time server for sending the date / time to the KNX bus**
- **Logical functions for group indicators**
- HSV or RGB color control
- Easy configuration with ETS 4/5 without additional software
- **Power supply via KNX bus, no external power supply required**
- 3 years warranty

Article Description	Art.No.	PG	List Price
Touchpanel VisuControl, Size 7" / 17,7cm	**VC-0701.03**	**C**	**1042,00 €**

Touchpanel to visualize current building status and to control building functions

- Individually adjustable
- Switching and dimming, shutter/blind control
- Remote Access via PC, iPad, iPhone, Android
- **VisuControl for KNX app available for free in the App store**
- Alarm indication and logical linking of binary data
- Displaying trends
- Forwarding of informations via email
- **VisuControl lite software and demo projects included**
- LED backlight
- 24VDC power supply required (eg. STV-0024.01)
- Integrated bus coupling unit
- 3 years warranty

Article Description	Art.No.	PG	List Price
Glass cover frame white - to fit 7" Touchpanel	**VCB-07WS.02**	**C**	**59,00 €**
Glass cover frame black - to fit 7" Touchpanel	**VCB-07SW.02**	**C**	**59,00 €**
Cover frame stainless steel look - to fit 7" Touchpanel	**VCB-07SI.01**	**C**	**59,00 €**
Network connection set - angulated RJ45 plug	**VCZ-AD07.01**	**C**	**19,00 €**
Flush mounted metal box - to house 7" Touchpanel	**VCG-UP07.01**	**C**	**49,00 €**
Dimensions (W x H x D): 213mm x 171mm x 85mm			
Software VisuControl Pro - to programm indvidual solutions	**VCS-PRO.03**	**D**	**298,00 €**
Software VisuControl lite - Already included in delivery			
The VisuControl Software is only available in english language.			

Article Description	Art.No.	PG	List Price
Touchpanel VisuControl, Size 10" / 26,4cm	**VC-1001.03**	**C**	**1642,00 €**

Touchpanel to visualize current building status and to control building functions

- Individually adjustable
- Switching and dimming, shutter/blind control
- Remote Access via PC, iPad, iPhone, Android
- **VisuControl for KNX app available for free in the App store**
- Alarm indication and logical linking of binary data
- Displaying trends
- Forwarding of informations via email
- **VisuControl lite software and demo projects included**
- LED backlight
- 24VDC power supply required (eg. STV-0024.01)
- Integrated bus coupling unit
- 3 years warranty

Article Description	Art.No.	PG	List Price
Glass cover frame white - to fit 10" Touchpanel	**VCB-10WS.03**	**C**	**79,00 €**
Glass cover frame black - to fit 10" Touchpanel	**VCB-10SW.03**	**C**	**79,00 €**
Cover frame stainless steel look - to fit 10" Touchpanel	**VCB-10SI.03**	**C**	**79,00 €**
Network connection set - straight RJ45 plug	**VCZ-AD10.01**	**C**	**19,00 €**
Flush mounted metal box - to house 10" Touchpanel	**VCG-UP10.03**	**C**	**59,00 €**
Dimensions (W x H x D): 280mm x 225mm x 80mm			
Software VisuControl Pro - to programm indvidual solutions	**VCS-PRO.03**	**D**	**298,00 €**
Software VisuControl lite - Already included in delivery			
The VisuControl Software is only available in english language.			

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Zert.Nr.1905606

Technical Informations KNX RF+

Introduction:

By introducing the new KNX RF+ devices, the improvement of accommodation or back fittings becomes much easier and is possible without chiseling. So every building can benefit from the modern KNX bus system. The new KNX RF+ Push Buttons/ Glass Push Buttons with integrated actuator replace conventional push buttons/ switches and can be connected to the KNX bus system via the KNX RF+ Line Coupler. The KNX RF+ devices are connected to the bus system KNX via the RF+ Line Coupler.
By coupling KNX RF+ and KNX TP (Twisted Pair), a lot of advantages are offered:

• No chiseling work necessary
• Easy, fast back fitting and modernization of buildings in use
• Using of the variety of TP devices from every manufacturer
• Adjusting of the KNX RF+ devices via ETS5
• Easy replacement of conventional switches by KNX RF+ push buttons with integrated actuator (neutral conductor necessary)
• The RF+ Line Coupler operates like a normal Line Coupler
• Supplying of the RF+ devices from the 230V Grid (no batteries)
• Every device can work as Repeater

A preliminary model of the MDT RF+ devices was already displayed at the Light and Building 2012. The new radio system works in a system mode and is adjusted with the ETS5 like a normal KNX TP device. KNX has officially specified the new radio protocol as with ETS5.

Functionality of KNX RF+:

The physical transmission behavior of KNX RF+ is specified to EU rules for short distance devices. It works with a center frequency of 868.3MHz. The data transmission happens by variation of the frequency by + 50 kHz, the so called FSK modulation.
The frequency band of 868Mhz is especially useful for the communication in buildings, because the transmission capacity is much lower than e.g. WLAN due to the lower frequency. The short KNX telegrams are still transmitted safely and fast.

The maximum of the transmission distance is 150m at the open air test site. In buildings, the transmission path depends to the situation and the assembly. All MDT RF+ devices communicate by the new KNX RF+ protocol in System mode. The new protocol is similar to the existing twisted pair protocol and addresses its communication partner directly via group addresses. So a transfer from serial number addressing to group address addressing via additional gateway is no longer necessary.

The assignment of the devices to their lines is done by Domain Address. So extensive databases, like normal TP devices, can be transmitted to the RF+ devices – in contrast to existing KNX RF standards. The RF+ Line Coupler connects KNX RF+ Lines with KNX TP Lines. RF+ devices in one line can communicate completely on their own without any additional repeater or gateway.
So the RF+ Line Coupler is only for the connection from KNX RF+ to KNX TP and vice versa.

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Overview:

The following illustration shows an overview, how an integration of KNX RF+ Devices to an existing KNX installation can look like:
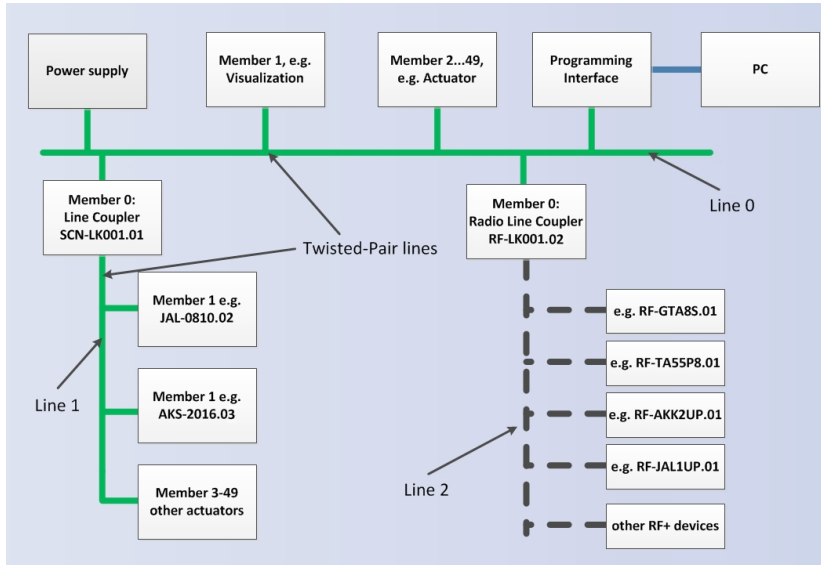
The topology at the installation of KNX RF+ devices is in principle the same as using normal TP devices. For coupling the TP line to the RF+ line, a KNX RF+ Line Coupler is necessary. Every TP Line must have an own bus power supply. There is no limitation of 64 devices per line. At KNX RF+, only the bus load at the radio channel is the limitation for the size of installations. The MDT RF+ devices work without battery and can be connected directly to 230V AC.

KNX RF+ Line Coupler, flush mounted	RF-LK001.02	B	252,00 €

Flush mounted. Integrated BCU
For operating inside the EU, 868MHz

- KNX RF+ line coupler to connect MDT KNX RF+ devices like MDT Push Button RF+ or MDT Glass Push Button RF+
- **New KNX RF+ protocol in system mode**
- Commissioning via ETS5
- Compatible to the new KNX RF+ specification
- Filter functions to reduce bus load
- Flush mounted in socket
- Dimensions (W x H x D): 41mm x 41mm x 22mm
- Integrated bus coupling unit
- 3 years warranty

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Article Description	Art.No.	PG	List Price
KNX RF+ Glass Push Button 4-fold Plus with Actuator, White	RF-GTA4W.01	B	153,00 €

With 4 sensor areas and LED for operation and status
Surrounding orientation light. Current max. 10A with ohmic load,
10A with 14µF/2ECG. For operating inside the EU, 868MHz

- **New KNX RF+ protocol in system mode**
- Commissioning with ETS5
- Sensor areas can be adjusted for 1 or 2 button operation
- NO or NC contact operation, adjustable length of button push
- Forced setting function for each output
- Operation with short/long button push and 2 objects
- Operation of blinds and shutters, 1 and 2 button operation
- Can be set as 2-fold switching actuator or 1-fold shutter actuator
- Connection via MDT KNX RF+ line coupler
- **Surrounding orientation light with day/night object**
- **Title block to insert behind glass front, labeling film included**
- **To upgrade your installation without placing KNX bus cables**
- Dimensions (W x H): 92mm x 92mm
- 3 years warranty

| Article Description	Art.No.	PG	List Price
KNX RF+ Glass Push Button 4-fold Plus with Actuator, Black	RF-GTA4S.01	B	158,00 €
KNX RF+ Glass Push Button 4-fold Plus with Actuator, White With temperature sensor to measure room temperature	RF-GTT4W.01	B	188,00 €
KNX RF+ Glass Push Button 4-fold Plus with Actuator, Black With temperature sensor to measure room temperature	RF-GTT4S.01	B	188,00 €
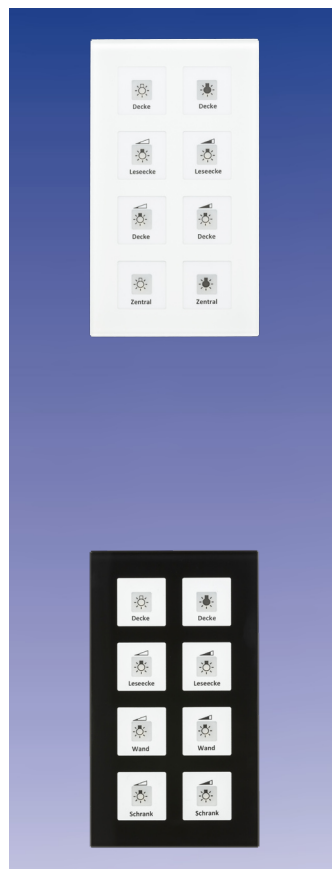
Article Description	Art.No.	PG	List Price
KNX RF+ Glass Push Button 8-fold Plus with Actuator, White	RF-GTA8W.01	B	210,00 €

With 8 sensor areas and LED for operation and status
Surrounding orientation light. Current max. 10A with ohmic load,
10A with 14µF/2ECG. For operating inside the EU, 868MHz

- **New KNX RF+ protocol in system mode**
- Commissioning with ETS5
- Sensor areas can be adjusted for 1 or 2 button operation
- NO or NC contact operation, adjustable length of button push
- Forced setting function for each output
- Operation with short/long button push and 2 objects
- Operation of blinds and shutters, 1 and 2 button operation
- Can be set as 4-fold switching actuator or 2-fold shutter actuator
- Connection via MDT KNX RF+ line coupler
- **Surrounding orientation light with day/night object**
- **Title block to insert behind glass front, labeling film included**
- **To upgrade your installation without placing KNX bus cables**
- Dimensions (W x H): 92mm x 163mm
- 3 years warranty

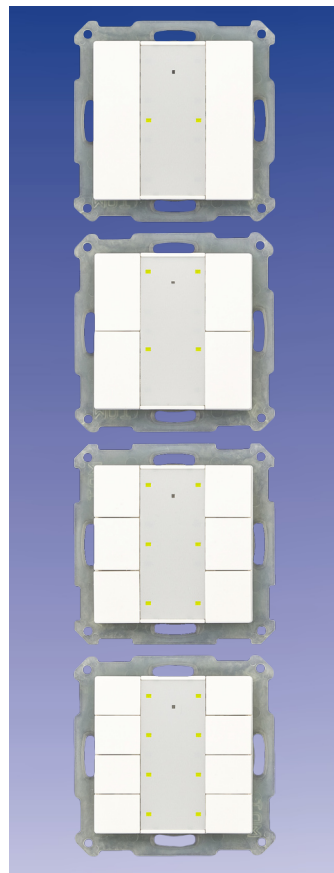| Article Description	Art.No.	PG	List Price
KNX RF+ Glass Push Button 8-fold Plus with Actuator, Black	RF-GTA8S.01	B	210,00 €
KNX RF+ Glass Push Button 8-fold Plus with Actuator, White With temperature sensor to measure room temperature	RF-GTT8W.01	B	230,00 €
KNX RF+ Glass Push Button 8-fold Plus with Actuator, Black With temperature sensor to measure room temperature	RF-GTT8S.01	B	230,00 €

Article Description	Art.No.	PG	List Price
KNX RF+ Push Button 2-fold Plus, White matt finish	RF-TA55P2.01	B	116,00 €

With 2 rockers and LED for operation, status and orientation
For operating inside the EU, 868MHz

- **New KNX RF+ protocol in system mode**
- Commissioning with ETS5
- Fits all switches with 55mm rocker
- Push Buttons can be adjusted for 1 or 2 button operation
- NO or NC contact operation, adjustable length of button push
- Forced setting function for each output
- Operation with short/long button push and 2 objects
- Operation of blinds and shutters, 1 and 2 button operation
- Connection via MDT KNX RF+ line coupler
- Centered title block with cover film for individual marking
- To replace conventionel push buttons
- **To upgrade your installation without placing KNX bus cables**
- Power supply 230VAC
- Installation with support ring (included in delivery)
- 3 years warranty

KNX RF+ Push Button 4-fold Plus	RF-TA55P4.01	B	126,00 €
KNX RF+ Push Button 6-fold Plus	RF-TA55P6.01	B	136,00 €
KNX RF+ Push Button 8-fold Plus	RF-TA55P8.01	B	146,00 €
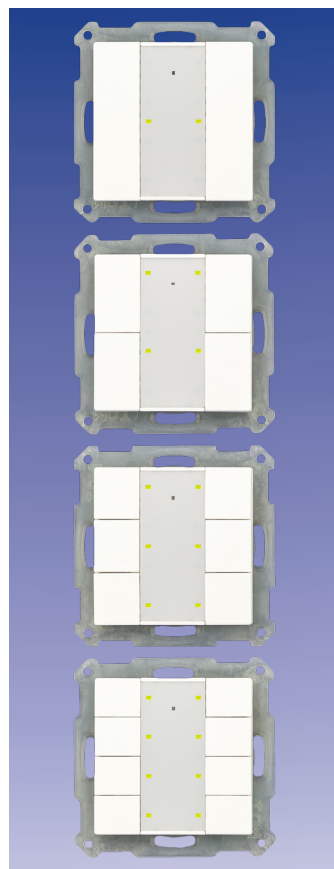
KNX RF+ Push Button 2-fold Plus with Actuator, White matt finish	RF-TA55A2.01	B	137,00 €

With 2 rockers and LED for operation, status and orientation.
Current max. 10A with ohmic load, 10A with 14µF/2ECG
For operating inside the EU, 868MHz

- **New KNX RF+ protocol in system mode**
- Commissioning with ETS5
- Fits all switches with 55mm rocker
- Push Buttons can be adjusted for 1 or 2 button operation
- NO or NC contact operation, adjustable length of button push
- Forced setting function for each output
- Operation with short/long button push and 2 objects
- Operation of blinds and shutters, 1 and 2 button operation
- Can be set as 2-fold switching actuator or 1-fold shutter actuator
- Connection via MDT KNX RF+ line coupler
- Centered title block with cover film for individual marking
- To replace conventionel push buttons
- **To upgrade your installation without placing KNX bus cables**
- Power supply 230VAC
- Installation with support ring (included in delivery)
- 3 years warranty

KNX RF+ Push Button 4-fold Plus with Actuator	RF-TA55A4.01	B	147,00 €
KNX RF+ Push Button 6-fold Plus with Actuator	RF-TA55A6.01	B	157,00 €
KNX RF+ Push Button 8-fold Plus with Actuator	RF-TA55A8.01	B	167,00 €

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DIN EN ISO 9001
TAW Cert
Zert.Nr.1905606
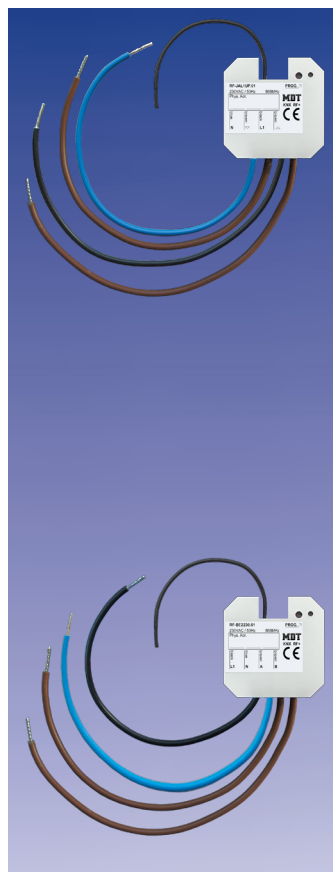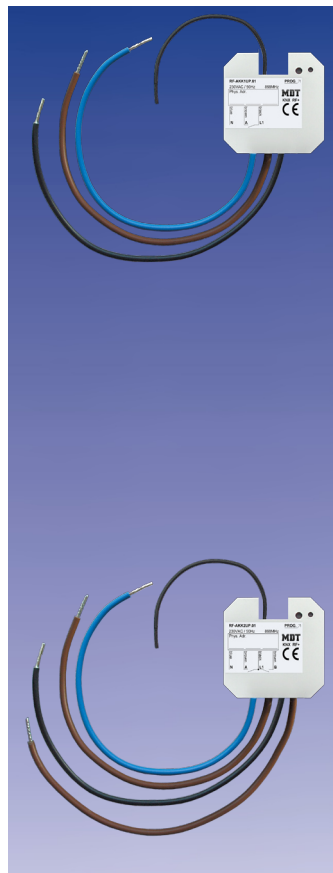
Article Description	Art.No.	PG	List Price

KNX RF+ Switch Actuator 1-fold, flush mounted, 10A, 230VAC — RF-AKK1UP.01 — B — 139,00 €

Flush mounted Switch Actuator with monostable relays
Current max. 10A with ohmic load, 10A with 14µF/2ECG
For operating inside the EU, 868MHz

- **New KNX RF+ protocol in system mode**
- Commissioning with ETS5
- NO and NC contact operation
- Time functions (switch-on/switch-off delay, staircase light function)
- Status response (active/passive) for each channel
- Logical linking of binary data
- 8 scenes per channel
- Central switching functions and block functions
- Adjustable behavior in case of bus voltage failure or return
- Flush mounted in socket
- Connection via MDT KNX RF+ Line Coupler
- **To upgrade your installation without placing KNX bus cables**
- Power supply 230VAC
- Dimensions (W x H x D): 41mm x 41mm x 22mm)
- 3 years warranty

KNX RF+ Switch Actuator 2-fold, flush mounted, 10A, 230VAC — RF-AKK2UP.01 — B — 149,00 €

Current max. 10A with ohmic load, 10A with 14µF/2ECG

KNX RF+ Shutter Actuator 1-fold, flush mounted, 10A, 230VAC — RF-JAL1UP.01 — B — 149,00 €

Flush mounted Shutter Actuator to feed 230VAC shutter motors up to
300W. With monostable relays, current max. 10A with ohmic load
For operating inside the EU, 868MHz

- **New KNX RF+ protocol in system mode**
- Commissioning with ETS5
- Operation mode blind/shutter adjustable
- Travel-, pause-at-change-of-direction- and step time adjustable
- Alarm-, central and block functions
- Connection via MDT KNX RF+ Line Coupler
- Dimensions (W x H x D): 41mm x 41mm x 22mm)
- Power supply 230VAC, 3 years warranty

KNX RF+ Universal Interface 2-fold, flush mounted — RF-BE2230.01 — B — 129,00 €
NEW
06/2017

Input detection of **230VAC** signals
Flush mounted, max cable length 100m
For operating inside the EU, 868MHz

- **New KNX RF+ protocol in system mode**
- Commissioning with ETS5
- **To connect 230V push-buttons, switches, presence detectors**
- NO or NC contact operation, adjustable length of button push
- Connection via MDT KNX RF+ Line Coupler
- Dimensions (W x H x D): 41mm x 41mm x 22mm)
- Power supply 230VAC, 3 years warranty
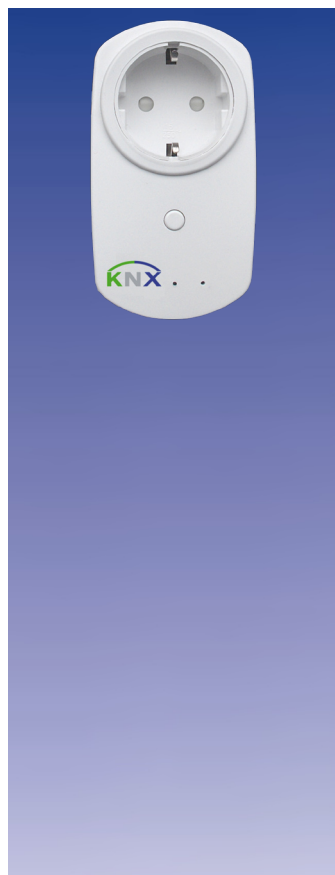
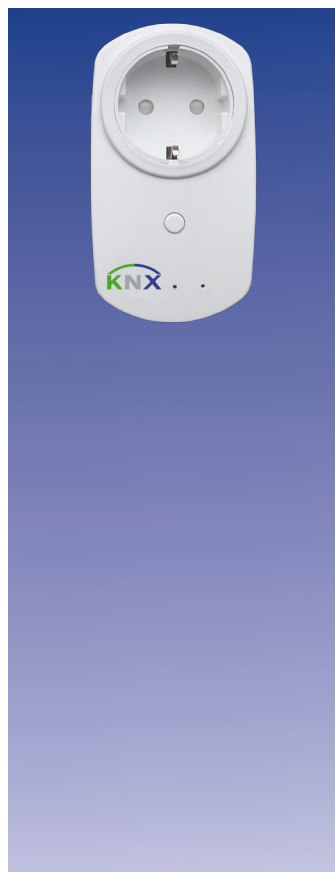| Article Description	Art.No.	PG	List Price
KNX RF+ Socket 1-fold, 16A, 230VAC	RF-AKK1ST.01	B	129,00 €

Inside plug adapter, Switch Actuator with monostable relays
Current max. 16A with ohmic load, 10A with 21µF/3ECG
For operating inside the EU, 868MHz

- **New KNX RF+ protocol in system mode**
- Commissioning with ETS5
- NO and NC contact operation
- Time functions (switch-on/switch-off delay, staircase light function)
- Status response (active/passive) for each channel
- Logical linking of binary data
- 8 scenes per channel
- Central switching functions and block functions
- Adjustable behavior in case of bus voltage failure or return
- Connection via MDT KNX RF+ Line Coupler
- 3 years warranty

	Art.No.	PG	List Price
KNX RF+ Socket 1-fold, 16A, 230VAC **With active power measurement**	RF-AZK1ST.01	B	149,00 €

Inside plug adapter, Switch Actuator with monostable relays
Current max. 16A with ohmic load, 10A with 21µF/3ECG
For operating inside the EU, 868MHz

- **New KNX RF+ protocol in system mode**
- Commissioning with ETS5
- NO and NC contact operation
- Time functions (switch-on/switch-off delay, staircase light function)
- Status response (active/passive) for each channel
- Logical linking of binary data
- 8 scenes per channel
- Central switching functions and block functions
- Adjustable behavior in case of bus voltage failure or return
- **Active power measurement with integrated counter (Wh/kWh)**
  with current and voltage rating
- Connection via MDT KNX RF+ Line Coupler
- 3 years warranty

Notes:

DIN EN ISO 9001
TAW Cert
Zert.Nr.1905606