Product Datasheet

Contents -- 1

Switch Actuator, 20A

KA/R0420.1	KA/R 0820.1	KA/R 1220.1
72 x 90 x60mm	145 x 90 x60mm	217 x 90 x 60mm
0.3kg	0.6kg	0.9kg

CHARACTERISTICS

●Manual operation available

●Time functions, on/off delay

●Scene control / presets via 8bit/1bit commands

●Logic operation AND, OR, XOR, gate function

●Status response

●Forced operation and safety function

●Reaction to threshold functions

●Control of electro thermal valve drives

●Selection of preferred state after bus voltage failure and recovery

●Inversion of the outputs

●Staircase lighting functions with warning and adaptable staircase lighting time.

PARAMETERS

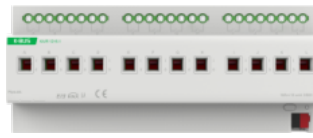|		
Power Supply	Operation voltage	21~30V DC, via the EIB bus
	Current consumption	<12mA
	Power consumption	Max.360mW
Output	Number of contacts	4/8/12
	U_n rated voltage	250/440V AC (50/60 HZ)
	I_n rated current	16A
	Max. leakage loss	2W/4W/8W
Operation and display	Red LED and push button	For assigning the physical address
	Green LED flashing	For display the application layer running normally
	Stand-alone operation	Via local operation, extension inputs
	Indication of the contact position	Close means the output is on Open means the output is off
Connections	EIB/KNX	Bus connection terminal (black/red)
	Load circuits	Screw terminals
Temperature	Operation	-5℃~45℃
	Storage	-25℃~55℃
	Transport	-25℃~70℃
Mounting	On 35mm mounting rail	
CE norm	According to the EMC and low voltage guideline, EN 50090-2-2	
Certification	EIB/KNX certified	

Switch Actuator, 16A

KA/R 0416.1
72 x 90 x 64mm
0.3kg
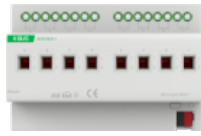
KA/R 0816.1
144 x 90 x64mm
0.5kg
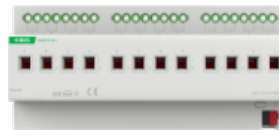
KA/R 1216.1
216 x 90 x 64mm
0.7kg

CHARACTERISTICS

●Manual operation available

●Time functions, on/off delay

●Scene control / presets via 8bit/1bit commands

●Logic operation AND, OR, XOR, gate function

●Status response

●Forced operation and safety function

●Reaction to threshold functions

●Control of electro thermal valve drives

●Selection of preferred state after bus voltage failure and recovery

●Inversion of the outputs

●Staircase lighting functions with warning and adaptable staircase lighting time.

PARAMETERS

Power Supply	Operation voltage	21~30V DC, via the EIB bus
	Current consumption	<12mA
	Power consumption	Max.360mW
Output	Number of contacts	4/8/12
	U_n rated voltage	250/440V AC (50/60 HZ)
	I_n rated current	16A
	Max. leakage loss	2W/4W/8W
Operation and display	Red LED and push button	For assigning the physical address
	Green LED flashing	For display the application layer running normally
	Stand-alone operation	Via local operation, extension inputs
Connections	EIB/KNX	Bus connection terminal (black/red)
	Load circuits	Screw terminals
	Indication of the contact position	Close means the output is on Open means the output is off
Temperature	Operation	-5℃~45℃
	Storage	-25℃~55℃
	Transport	-25℃~70℃
Mounting	On 35mm mounting rail	
CE norm	According to the EMC and low voltage guideline	
Certification	EIB/KNX certified	

Switch Actuator, 8 fold, 10A

ARES-08/10.1

72 x 90 x 64mm

0.3kg

CHARACTERISTICS

●Manual operation

●Time functions, on/off delay

●Scene control / presets via 8bit/1bit commands

●Logic operation AND, OR, XOR, gate function

●Status response and Status display

●Forced operation and safety function

●Reaction to threshold functions

●Control of electro thermal valve drives

●Selection of preferred state after bus voltage failure and recovery

●Inversion of the outputs

●Staircase lighting functions with warning and adaptable staircase lighting time.

PARAMETERS

Power Supply	Operation voltage	21~30V DC, via the EIB bus
	Current consumption	<12mA
	Power consumption	Max.360mW
Output	Number of contacts	8
	U_n rated voltage	230V AC (50/60 HZ)
	I_n rated current	10A/230VAC
	Min. load	100mA 5V DC
Operation and display	Red LED and push button	For assigning the physical address
	Green LED flashing	For display the application layer running normally
	Manual buttons	ON/OFF outputs
	LED indication of the outputs	LED ON means the output is on LED OFF means the output is off
Connections	EIB/KNX	Bus connection terminal (black/red)
	Load circuits	Screw terminals
	Cable cross-section	Multi-core 0.5-2.5mm^2 Single-core 0.2—4.0mm^2
Temperature	Operation	-5℃~45℃
	Storage	-25℃~55℃
	Transport	-25℃~70℃
Ambient condition	Humidity	5~85%,except dewing
Installation	On 35mm mounting rail, and on clean, dry indoor	

KNX Switch Actuator with current detection

ARCD 0416.1	ARCD 0816.1	ARCD 1216.1
72 x 90 x 64mm	144 x 90 x64mm	216 x 90 x 64mm
0.3kg	0.5kg	0.7kg
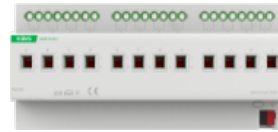
CHARACTERISTICS

●Manual operation available

●Time functions, on/off delay

●Scene control / presets via 8bit/1bit commands

●Logic operation AND, OR, XOR, gate function

●Status response

●Forced operation and safety function

●Reaction to threshold functions

●Control of electro thermal valve drives

●Selection of preferred state after bus voltage failure and recovery

●Inversion of the outputs

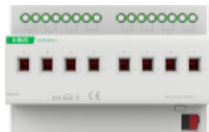●Staircase lighting functions with warning and adaptable staircase lighting time.

●Current detecting

PARAMETERS

Power Supply	Operation voltage	21~30V DC, via the EIB bus
	Current consumption	<12mA
	Power consumption	Max.360mW
Output	Number of contacts	4/8/12
	U_n rated voltage	250/440V AC (50/60 HZ)
	I_n rated current	16A
	Max. leakage loss	2W/4W/8W
	Current detection range	50mA-16A
	Min. detection load	15W
	Current detection accuracy	$\pm$5% and $\pm$20mA
Operation and display	Red LED and push button	For assigning the physical address
Green LED flashing	For display the application layer running normally	
Indication of the contact position	Close means the output is on Open means the output is off	
Connections	EIB/KNX	Bus connection terminal (black/red)
	Load circuits	Screw terminals
Temperature	Operation	-5℃~45℃
	Storage	-25℃~55℃
	Transport	-25℃~70℃
Ambient	- Humidity	<93%, except dewing

Switch Blind Actuator

AMRW-24/10.1

216×90×64mm(L×W×H)

0.8kg

CHARACTERISTICS

The device can set max. 24 channels switch output or max. 12 channels shutter output. One channel shutter output can be used as 2 channels switch when they are not used as shutter/blind output .

●Switch output，which can connect some electrical loads, such as lighting, sockets. The power of the load is 230V AC 10A output with manual button control in front of the device.All channels have the function of general switch, staircase lighting, light flashing and switch delay, scene,operation hours counter, also logic and force operation are available

●Shutter output. which can connect with motor blinds, awnings, roller blinds, vertical blind, etc. With 230V AC 1000W motor or dry contact controlling motor. Operating shutter and louvre adjustment are available; automatic function and sun protection are available; scene and safety operating are available;

PARAMETERS

Power supply	Bus voltage	21-30V DC，via the EIB
	Standby current	Max. 12mA
	Power consumption	Max. 360mW
	Capacitor charge current	Max. 24mA
Output	24 channels	Can be individually configured (including switch, shutter)
	U_n rated voltage	230/400V AC（50/60Hz）
	In rated current capacity	10A/105uF
	Max. switching current	16A/240V AC
	Mechanical endurance	$> 2 \times 10^6$
	Electrical endurance	$>5 \times 10^4$
	Max. DC current switching capacity (resistive load)	16A/30V DC
Connection	EIB/KNX	Via bus connection terminals
	Outputs A/B/C1, Screw terminals, Wire Range0.5-4mm^2 Torque 0.8N-m Other outputs, Screw terminals, Wire Range 0.5-2.5mm^2 Torque0.5N-m	
Operation and display	programming button and Red LED	For assigning the physical address
	Green LED flashing	For displaying application layer running normally
Temperature	Operation	−5 °C ~ 45 °C
	Storage	−25 °C~ 55 °C
	Transport	− 25 °C~70 °C
Environmental	humidity	<93%,except dewing

KNX Shutter Actuator, 4fold
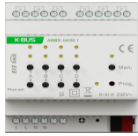
AWBS-04/00.1

72 x 90 x 64.2mm

0.3kg

CHARACTERISTICS

● Movement UP/DOWN

● Stop/Louvre adjustment

● Move into preset position（up to 2 preset positions）

● Set preset position（modification of the preset position during operation）

● Move to position 0…100%

● Adjustment louvre to position 0…100% (only Blind "Blind" working mode)

● Scenes

● Automatic sun protection

● Monitoring of wind, rain and frost protect (cyclical)

● Block

● Forced operation

● Status display of the current position, status display of the current operating mode

● LED display

● Two working mode, Venetian Blind and Shutter

PARAMETERS

Power Supply	Operation voltage	21~30V DC , via the EIB bus
	Current input	<12mA
	Power consumption	<360mW
Outputs	4 independent output, each with 1 changeover contact (UP/DOWN mechanically interlocked)	
	Nominal voltage	230V AC
	Max. switching current	6A resistive， 370W motor
Connections	EIB / KNX	Bus connecting terminal(black/red)
	Load circuits/230V AC input	Screw terminals
	Wire range	0.2—4.0mm², Single-core
		0.2—2.5mm², Finely-stranded
Operating and display	UP/DOWN buttons	2 push buttons per output for UP and DOWN or STOP/Louvre adjustment
	Display of direction of travel/ position	2 LEDs per output for UP and DOWN (Travel/Adjustment) or the very top/bottom
	Man. /Auto. push button	For toggling between manual operation and automatic operation
	Man. /Auto. LED	For displaying the operating mode
	Red LED and push button	For assign the physical address
	Green LED flashing	Display the device running normally
Temperature range	Operation	–5 °C ... + 45 °C
	Storage	–25 °C ... + 55 °C
	Transport	– 25 °C ... + 70 °C
CE norm	According to the EMC and low voltage guideline, EN 50090-2-2	
Certification	EIB/KNX certified	

KNX Fan coil Actuator

AFVF-01/220.1

72 x 90 x 64.2mm

0.3kg

CHARACTERISTICS

●The fan can be controlled by automatically or manually with high, medium and low three speeds.

●The 2-pipe system or 4-pipe system can be controlled by raise lower valve or thermal valve

●Room temperature control mode can be set to standby mode, comfort mode, night mode and protect mode.

●It can control the fan and valve automatically with PI algorithm.

●It can report the local fan speed and valve position.

●Measure the temperature, monitor the actual temperature and the frost temperature.

●Room temperature control mode, fan speed and heating or cooling can be controlled by scenes

●It can monitor the window contacts or binary input.

●The fan coil can be controlled by extern controller.

PARAMETERS

Power supply	voltage	230 V AC +/10%（50/60Hz）
	consumption	Max 1.4W
Bus supply	Bus voltage	21-30DC, Via EIB
	Bus current	<12mA
	Bus consumption	<360mW
2 fold valve	Rated voltage	75V~265V AC
	Rated current	2A
1 fold Fan	Rated voltage	230 V AC 50/60Hz
	Rated current	6A(Note :if 3 floating contacts use toge-
		ther, the Maximum current is 13A for all)
Signalling inputs	Rated voltage	9V~265V AC/DC
Temperature input	range	－ 45°C ... + 80°C
Temperature	Operation	－ 5 °C ... + 45 °C
	Storage	–25 °C ... + 55 °C
	Transport	－ 25 °C ... + 70 °C
Installation	on 35 mm mounting rail	

KNX Fan Coil Actuator with 0-10V
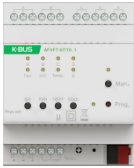
AFVFT-07/10.1

72 x 90 x 64.2 mm (L×W×D)

0.3kg

CHARACTERISTICS

The fan speed control

●Up to three level fan speed can be controlled and status response.

●Auto. Operation and limitation function

●Forced operation

●Behaviour operation for bus failure and bus recovery

HVAC control

●The 2-pipe system or 4-pipe system can be controlled by 2 state-ON/OFF valve or Continuous PWM valve

●Local or bus to control valve,also response the valve position status

●HVAC mode can be set to standby mode, comfort mode, night mode and protect mode when the valve is controlled via local, and HAVC mode status response

●Local temperature measure via input external PT1000 sensor

●Scene function

Interface output

●The relays can be used as switch output when it is not used to control the fan speed or valve.

●Switch output of special functions: time,logic,scene,force,operation hours counter

●2 channels of 0-10V output can be used for fan or valve control

PARAMETER

Power supply	Bus voltage	21-30DC, Via EIB
	Bus current	<15mA
	Bus consumption	<360mW
Relay outputs	Rated voltage	250V AC
	Rated current	10A/105μF
0-10V outputs	output voltage	0-10V DC, with isolation
	Load current	Up to1.5mA
1 fold input	Connect a three-wires PT1000 temperature sensor	
	Measuring temperature range － 45°C ... + 80°C	
	Cable length 2M	
Temperature	Operation	－ 5 °C ... + 45 °C
	Storage	–25 °C ... + 55 °C
	Transport	－ 25 °C ... + 70 °C
Installation	on 35 mm mounting rail, and in clean, dry indoor	

KNX Room Controller Premium

AMRP-41/00.2

216×90×64mm(L×W×H)

0.7kg

CHARACTERISTICS

●20 channels Dry contact input.Functions of each channel are switch sensor, dimming sensor, value output , shutter control and delay mode

●10 channels Switch output. 4ch are manual operation (mechanical switch) available, the Max. Load current is 16A;the others are electrical switch available, and the Max. Load current is 10A.all channels have the function of staircase lighting, light flashing and switch delay. also logic and force operation are available

●2 channels Shutter output. Max. load current is 10A; operating shutter and louvre adjustment are available; automatic function and sun protection are available; safety operating are available;

●2 channels 0/1~10V dimming output. relative dimming、brightness dimming and staircase lighting are available

●1 channel Fan Coil output. 3 level fan speeds, Max. current is 10A.that can be reused for 3ch switch actuator;4 pipes HVAC control system,Max. load current is 2A;PWM and continuous control both are available

●RS485 convert function is available

●KNX IP convert function is available

PARAMETERS

Power supply	Bus voltage	21-30V DC，via the EIB
	Standby current	Max. 12mA
	Power consumption	Max. 360mW
Auxiliary Power	Work voltage	24-30V DC
	Auxiliary current	Max. 250mA
	Auxiliary power consumption	<6W
Input	20ch Dry Input	
OUTPUT	10ch Switch(4ch is 16A,other 6ch is 10A)	
	2ch Dimming(0/1~10V dimming output, rated current is 100mA)	
	2ch Shutter(rated voltage is 250VAC,rated current is 10A)	
	1ch Fan Coil,(3levels fan output.4 pipes HVAC control system)	
Operation and display	Red LED and push button	For assigning the physical address
	Green LED flashing	For displaying application layer running normally
Temperature	Operation	–5 °C ~+ 45 °C
	Storage	–25 °C ~+ 55 °C
	Transport	– 25 °C ~ + 70 °C
Environmental	humidity	<93%,except condensation
Installation	Modular Din-Rail Component	35mm DIN Rail

Room Controller Smart_V3.0

AMRS-41/05.3

216×90×64mm (L×W×H)

0.7kg

CHARACTERISTICS

- Up to 5 channels dry contact and 2 channels binary input   AC/DC 0-230V. Switching, dimming, shutter control, value sending functions supported.
- Up to 5 channels common-anode LED output, 10mA/ch, 10 levels of brightness supported.
- KNX/IP protocol supported with max. 5 clients.
- KNX/IP Router function supported with max. 8 group addresses in filter table.
- 1 fold Fan coil control function supported with PID algorithm for local control or bus control.
- Three-wire PT1000 temperature sensor supported.
- Up to 2 folds of triac dimming output of 100W/channel.
- Up to 3 channels 0-10V signal output with 50mA/channel for 0-10V dimming control, fan control and heating/cooling valve control.
- Up to 25 folds of switching output, partially reusable with shutter control, fancoil control.
- Up to 2 folds of shutter actuator for blinds/shutter control.
- Up to 4 folds of AND/OR/XOR logic function.
- Up to 4 folds of time control functions like time-delay, flashing etc.
- Up to 4 groups of scene control, each with max. 8 scene control function (sending time controllable).

PARAMETERS

Power supply	Bus voltage	21-30V DC，via the EIB
	Standby current	Max. 12mA
	Power consumption	Max. 360mW
Auxiliary Power	Work voltage	24-30V DC
	Auxiliary current	Max. 200mA
	Auxiliary power consumption	<6W
Input	5ch Dry Input	
	PT1000 temperature sensor detector	
	RJ45 internet connection	
	2ch AC/DC 0~230V input detect	
Output	5ch LED indicator,common-anode	
	25ch Relay output (4ch are 16A,others are 6A),4 ch can use as 2ch shutter control, 3ch can use as fan control,2ch can use as valve control	
	3ch 0-10Voutput,used as dimming or fan coil output	
	2ch Triac Dimming,max.100W	
Operation and display	Manual operation and status indication	Program Button and LED Program Physical Address
	Green LED flashing	For displaying application layer running normally
Temperature	Operation	–5 °C ... + 45 °C
	Storage	–25 °C ... + 55 °C
	Transport	– 25 °C ... + 70 °C
Environmental	humidity	<93%,except dewing
Installation	Modular Din-Rail Component	35mm DIN Rail

KNX Room Controller

AMRM-41/00.1

216×90×63.5mm(L×W×H)

1kg

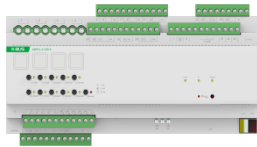## CHARACTERISTICS

●20 channels Binary input. Functions of each channel are switch sensor, dimming sensor, value output and shutter control

●12 channels Switch output. 4ch are manual operation (mechanical switch) available, the Max. Load current is 16A; the others are electrical switch available, and the Max. Load current is 6A.all channels have the function of staircase lighting, light flashing and switch delay. Also logic and force operation are available

●2 channels Shutter output. Max. Load current is 6A; operating shutter and louvre adjustment available; automatic function and sun protection available; safety operating available;

●2 channels TRIAC dimming output. Max Load current is 1A;relative dimming、brightness dimming and staircase lighting available

●1 channel Fan Coil output. provide high、medium、low fan speeds, Max. current is 6A.that can be reused for 3ch switch actuactor;4 pipes HVAC control system, Max. load current is 0.5A;PWM and continuous control both available

PARAMETERS

Power supply	Bus voltage	21-30V DC，via the EIB
	Current consumption	Max. 12mA
	Power consumption	Max. 360mW
Auxiliary Power	Work voltage	100-240VAC
	Auxiliary current	Max. 15mA
	Auxiliary power consumption <3W	
Input	20ch Binary Input	
Output	12ch Switch(4ch is 16A,other 8ch is 6A;rated voltage 250VAC)	
	2ch Dimming(TRIAC dimming output, rated current is 1A)	
	2ch Shutter(rated voltage is 250VAC,rated current is 6A)	
	1ch Fan Coil,(3levels fan output.4 pipes HVAC control system)	
Operation and display	Red LED and push button For assigning the physical address	
	Green LED flashing	For displaying application layer running normally
Temperature	Operation	−5 °C ... + 45 °C
	Storage	−25 °C ... + 55 °C
	Transport	− 25 °C ... + 70 °C
Environment	humidity	<93%,except condensation
Installation	Modular Din-Rail Component	35mm DIN Rail

KNX Dimming Actuator

KA/D 0103.1	KA/D 0203.1	KA/D 0403.1
72 x 90 x 64mm	144x90x64mm	216 x 90 x 64mm
0.3kg	0.5kg	0.7kg

CHARACTERISTICS

● Control switch state of the lamp

● Relative dimming function

● Control brightness values of the lamp

● State report, error report

●15 scenes setting

● Staircase lighting function

● Bus recovery function

● Preset function, set preset function

●Relatively light changes manually

●Before and after the switch

PARAMETERS

Power Supply	Operating voltage	21~30V DC, via the EIB bus
	Input	230V AC (50/60Hz)
Output	channels	1/2/4
	voltage	230VAC(50/60Hz), dimmed via phase alignment/phase control
	Max. capacity	500W / 500W / 400W (up to 45℃ ambient temperature)
	Min. capacity	5W
	Max. leakage loss	5W
Operation and display	Red LED and push button	For assigning the physical address
	Green LED flashing	For displaying the application layer running normally
Connections	EIB/KNX	Bus connection terminal(black/red)
	Load circuits/ 230V AC input	Screw terminals
Temperature	Operation	–5℃~45℃
	Storage	-25℃~55℃
	Transport	-25℃~70℃
Mounting	On 35mm mounting rail	
CE norm	According to the EMC and low voltage guideline	
Certification	EIB/KNX certified	

KNX Dimming Controller, 4fold, 0-10V

KA/D 04.T1.1

143 x 90 x 60mm

0.5kg

CHARACTERISTICS

● Switching the light

● Relative dimming

● Absolute dimming

● Status report

● Setting 15 scenes

● Staircase lighting function

● Preset value and modify preset value functions

PARAMETERS

Power Supply	Operating voltage	21~30V DC , via the EIB bus
	Current consumption	<12mA
	Power consumption	<360mW
	Input voltage	100~240V AC
Output	Channels	4
	Output voltage	0~10V DC，max.100mA, short-circuit protection AC 230V 16A
Connections	EIB / KNX	Bus connection terminal (black/red)
	Inputs/outputs	Using screw terminals
Operation and display	Red LED and button	For assigning the physical address
	Green LED flashing	For displaying the application layer running normally
Temperature	Operation	−5°C ... + 45 °C
	storage	−25 °C ... + 55 °C
	transport	− 25 °C ... + 70 °C
Mounting	Standard 35mm DIN rail installation	

KNX 0/1~10VDC Dimmer Controller, 4fold
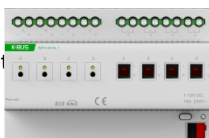

ADTV-04/16.1

143 x 90 x 60mm

0.5kg

CHARACTERISTICS

●Switching the light

●Relative dimming

●Absolute dimming

●Status report

●Setting 15 scenes

●Staircase lighting function

●Bus recovery (or reset) function

●Preset value and modify preset value functions

●Switch/relative dimming via manual buttons

PARAMETERS

Power Supply	Operating voltage	21~30V DC , via the EIB bus
	Current consumption	<12mA
	Power consumption	<360mW
Output	Output voltage	1~10V DC(passive)，max.100mA per output
	Switch current	16A/250V AC
Connections	EIB / KNX	Bus connection terminal (black/red)
	Outputs	Using screw terminals
Operation and display	Red LED and button	For assigning the physical address
	Green LED flashing	For displaying the application layer running normally
Temperature	Operation	−5℃ ... + 45 ℃
	storage	−25 ℃ ... + 55 ℃
	transport	− 25 ℃ ... + 70 ℃
Mounting	Standard 35mm DIN rail installation	

KNX 4A LED Dimming Actuator

ADLD-04/03.1

72 x 90 x 64.2mm

0.3kg

CHARACTERISTICS

● Control switch of the LED lamp

● Relative dimming function

● Control brightness values of the LED lamp

● State report, error report

● 15 scenes setting

● Staircase lighting function

● Bus recovery function

● Preset function, set preset function

● Switch/ relative dimming via manual buttons

PARAMETERS

Power Supply	Operating voltage	21-30V DC, via the EIB bus
	Current consumption	<12mA
	Power consumption	<360mW
	Input	12-24V DC
Output	4 channels	
	Rated current	4A
	Load voltage	12-24V DC (constant voltage)
	Safety	Short-circuit, over voltage and over temperature protection
connections	EIB/KNX	EIB bus connection terminal
	Input and output	Screw terminals
Operation and display	Button and Red LED	For assigning the physical address
	Green LED flashing	Indicate the application layer running normally
	OT. LED	Indicate over-temperature, >70 ℃
	OV. LED	Indicate over voltage, >26V DC
	Manual buttons	Switch via a short operation, relative dimming via a long operation
	LEDs for output	Indicate output status per channel
Temperature	Operation	-5℃ ~45℃
	Storage	-25℃ ~55℃
	Transport	-25℃ ~70℃
Mounting	On 35mm DIN rail	
Ambient	Humidity	<93%, except dewing

KNX 350mA LED Dimming Actuator
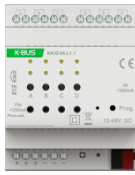
KA/D 04.L1.1

72 x 90 x 64.2mm

0.3kg

CHARACTERISTICS

● Control switch of the LED lamp

● Relative dimming function

● Control brightness values of the LED lamp

● State report, error report

● 15 scenes setting

● Staircase lighting function

● Bus recovery function

● Preset function, set preset function

● Set output current for per channel manually

● Switch/ relative dimming via manual buttons

PARAMETERS

Power Supply	Operating voltage	21-30V DC, via the EIB bus
	Input	12-48V DC
Output	4 channels	Each channel with two outputs
	current	Constant current 350mA/700mA
	Load voltage	3-48V DC
connections	EIB/KNX	EIB bus connection terminal
	Input and output	Screw terminals
Operation and display	Button and Red LED	For assigning the physical address
	Green LED flashing	Indicate the application layer running normally
	Switch current button for a channel	Set output current for the channel
	LED for a channel	Indicate output current of the channel increased by 350mA
	Switch current button for all channels	Set output current for all channels
	LED for all channels	Indicate output current of all channels increased by 350mA
	Manual buttons	Switch via a short operation, relative dimming via a long operation
	Output indicate LEDs	Indicate output status per channel
Temperature	Operation	-5℃~45℃
	Storage	-25℃~55℃
	Transport	-25℃~70℃
Mounting	On 35mm DIN rail	
Ambient	Humidity	<93%, except dewing

KNX Dimmer Master,4 folds

KA/D 0400.1

90×36×64mm

0.3kg

CHARACTERISTICS

●Control switch state of the lamp

●Relative dimming function

●Control intensity values of the lamp

●State report, error report

●15 scenes setting

●Staircase lighting function with end indication

●Bus recovery function

●Preset function, save preset function

●Manual operation and LED display

PARAMETERS

Power Supply	Operating voltage	21~30V DC , via the EIB bus
	Current consumption	<12mA
	Power consumption	<360mW
	Auxiliary Power	100-240V AC
	Auxiliary consumption	<2.5W
Output	Channels	4
Connection	EIB / KNX	Bus connection terminal (red/black)
	Control Bus	Connect to slave(yellow/white)
Operation and display	Red LED and button	For assigning the physical address
	Green LED flashing	For displaying the application layer running normally
Temperature	Operation	−5 °C ... + 45 °C
	Storage	−25 °C ... + 55 °C
	Transport	− 25 °C ... + 70 °C
Environment	Humidity	<93%,no condensation
Mounting	Standard 35mm DIN rail installation，Modular Installation	

5A Dimming Actuator Slave,2 folds

ADDS-02/05.1

144 x 90 x 64mm

0.5kg

CHARACTERISTICS

●TRIAC dimming,leading edge
●Short-circuit protection
●Over temperature protection
●Use with Master only

PARAMETERS

Power Supply	Input voltage	230 V AC（50/60Hz）
Output	Channels	2
	Max. Load	1000W
	output voltage	230V AC（50/60Hz）(phase control)
	Max.consumption	5W
Connection	Control Bus	Bus terminal（yellow/white）
	load terminal	Using screw terminals
Operation and Display	Red LED	Display device is over-temperature
	Green LED	Display the current channel controlled
	push button	shift channel(Long operation 1.5s)
Temperature	Operation	－5 °C ... + 45 °C
	Storage	－25 °C ... + 55 °C
	Transport	－ 25 °C ... + 70 °C
Environment	Humidity	<93%,no condensation
Mounting	Standard 35mm DIN rail installation，Modular Installation	

KNX Dimming Actuator,1/2/4 fold(1/2 reserved)
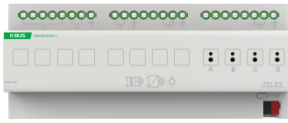
ADUM-04/03.1

216 x 90 x 64mm

0.75kg

CHARACTERISTICS

● Control switch state of the lamp

● Switching the light

● Relative dimming

● Absolute dimming

● Status report, error report

● Setting 15 scenes

● Staircase lighting function

● Bus recovery (or reset) function

● Preset value and modify preset value functions

● Switch/relative dimming via manual buttons

● Leading/Trailing dimming method

● LED display for output status

● Load power, voltage and drive error monitoring

PARAMETERS

Power Supply	Operating voltage	21~30V DC, via the EIB bus
	Input	230V AC (50/60Hz)
output	ADUM-01/03.1---1Channel	MAX.output capacity 500w per channel
	ADUM-01/03.1---2Channel	MAX.output capacity 500w per channel
	ADUM-01/03.1---4Channel	MAX.output capacity 400w per channel,800w if two channels combined
	Output voltage	230v AC(50/60HZ)
	protection	Short circuit ,overload and over temperature protection
	Max. leakage loss	5W/ per channel
Operation and display	Red LED and push button	For assigning the physical address
	Green LED flashing	For displaying the application layer running normally
Connections	EIB/KNX	Bus connection terminal(black/red)
	Load circuits/ 230V AC input	Screw terminals
Temperature	Operation	–5℃~45℃
	Storage	-25℃~55℃
	Transport	-25℃~70℃
Mounting	On 35mm mounting rail	
CE norm	According to the EMC and low voltage guideline	
Certification	EIB/KNX certified	

KNX 3.5 inch Touch Panel Plus

![Touch panel image]	CHTF-3.5/20.1.2x(thin) 86 x 86 x 7mm（32mm） 0.25kg	![Touch panel image]	CHTF-3.5/20.2.2x() 86 x 86 x 45mm 0.25kg

`

CHARACTERISTICS

●3.5 inch color TFT, 320x240 resolution, capacitive touch screen

●With switching, dimming, curtains control and value send functions

●Air quality display, with PM2.5, AQI, CO2, VOC etc.

●HVAC thermostat function

●Air conditioner, for IR Split Unit and Gateway Integrate control type

●Background Music control

●RGB dimming, Floor heating and Ventilation System control

●8 Time functions, 4 Event Group functions

●8 Logic functions, with AND, OR, XOR, Gate forwarding, Threshold comparator, and Format convert

●Proximity sensor

●Time and date display

●Password protection, and Screensaver with clock, album, or none

●Main page navigation function

PARAMETERS

Bus supply	Bus voltage	21-30DC， Via KNX/EIB
	Bus current	<12mA
	Bus consumption	<360mW
Auxiliary supply	voltage	12-30V DC
	consumption	<2W
Connections	EIB/KNX	Bus connection terminal
	Auxiliary supply	screw terminal
Mounting	In a conventional 86 mm wiring box	
Operation and display	Red LED&push button	For assigning the physical address
	Green LED flashing	For displaying the application layer running normally
Temperature	Operation	–5℃~45℃
	Storage	-25℃~55℃
	Transport	-25℃~70℃

KNX Colour Touch Panel 5.0

CHTF-05/01.1.xx

91x145.8 x 34.5mm

0.3kg

CHARACTERISTICS

● Capacitive touch screen, color display

● Switching and dimming

● Control of blinds and shutters

● Sending of values, e.g. water line、brightness

● Recall and storage scene

● Temperature measure and control function

● RGB LED dimming and logic function

● Background music control and security control

● Air condition control

● Can display indoor and outdoor temperature

● Operating lock function

PARAMETERS

Power supply	Bus voltage	21-30V DC, via the EIB bus
	External power supply	20-30V DC
	Bus power consumption	<360mW
	External power consumption	<4W
Connections	EIB / KNX	Via bus connecting terminal (red/black)
	External power supply	Via bus connecting terminal (yellow/white)
	Load circuits	screw terminals
	Cable Cross-section	single core 0.2—6.0mm^2
		Multi core 0.2—4mm^2
Operating and display	Red LED and button	For assignment of the physical address
	Green LED flashing	Indicate the device normally running normally (OK)
Temperature range	Operation	-5 °C ~ + 45 °C
	Storage	–25 °C ~+ 55 °C
	Transport	– 25 °C~ + 70 °C

KNX Colour Touch Panel 5.0"(thin)

CHTF-5.0/20.1.21 (Slim)

87 x 141.5 x 33.9 mm

0.3kg

CHARACTERISTICS

●5" color TFT, 800x480 resolution, capacitive   touch screen.

●Switching, scenes, dimming, curtains control, scene control and other control functions.

●Intelligent scene control.

●Thermostat function.

●Time switch function.

●Proximity sensor

●Time and date display

●Screensaver options: clock, album, gradient black or none.

●Configure the database on PC software, and update to the device via a TF card.

●Customizing the setting of the main pages.

PARAMETERS

Bus supply	Bus voltage	21-30DC. Via KNX/EIB
	Bus current	<12mA
	Bus consumption	<360mW
Auxiliary supply	voltage	12-30V DC
	consumption	<2W
Connection line	Keys input	5 lines, max 10m
	EIB/KNX	Bus connection terminal
Installation	In a conventional 86 mm wiring box	
Operation and	Red LED and key	
display	Flash green LED	Normal
Temperature range	Operation	–5 °C ... + 45 °C
	Storage	–25 °C ... + 55 °C
	Transport	–25 °C ... + 70 °C

KNX Colour Touch Panel 5.0 (Insert mode& color options)

CHTF-05/01.2.xx

102x 157 x 34.3mm

0.3kg

CHARACTERISTICS

● Capacitive touch screen, color display

● Switching and dimming

● Control of blinds and shutters

● Sending of values, e.g. water line、brightness

● Recall and storage scene

● Temperature measure and control function

● RGB LED dimming and logic function

● Background music control and security control

● Air condition control

● Can display indoor and outdoor temperature

● Operating lock function

PARAMETERS

Power supply	Bus voltage	21-30V DC, via the EIB bus
	External power supply	20-30V DC
	Bus power consumption	<360mW
	External power consumption	<4W
Connections	EIB / KNX	Via bus connecting terminal (red/black)
	External power supply	Via bus connecting terminal (yellow/white)
	Load circuits	screw terminals
	Cable Cross-section	single core 0.2—6.0mm^2
		Multi core 0.2—4mm^2
Operating and display	Red LED and button	For assignment of the physical address
	Green LED flashing	Indicate the device normally running normally (OK)
Temperature range	Operation	-5 °C ... + 45 °C
	Storage	–25 °C ... + 55 °C
	Transport	– 25 °C ... + 70 °C

KNX Thermostat

CHTC-86/01.1.xx

Panel:86 x 86 x 41.6 mm

0.3kg

CHARACTERISTICS

●Temperature, humidity, temperature setpoint, heating and cooling, fan speeds
and room temperature control mode display.

●Include basic heating or cooling and additional heating or cooling
temperature control.

●A variety of Temperature controls with continuous PI control, switching PI
control and two point's control

●16 regular time settings for switching the room temperature control mode
and sending the corresponding data to the bus.

●It can control the fan coil system by setting the temperature setpoint and
manual operation fan speeds.

●It can send the corresponding data to the bus according to the temperature
and humidity threshold.

●Logic functions

●3 binary inputs for controlling the switching, dimming, curtains and scenes

●1 input for NTC temperature sensor.

PARAMETERS

Bus supply	Bus voltage	21-30DC， Via KNX/EIB
	Bus current	<12mA
	Bus consumption	<360mW
Auxiliary supply	voltage	12-30V DC
	consumption	<2W
4 input channels	Include 3 binary inputs and 1 NTC temperature input	
	voltage	3.3VDC
	current	<0.5mA
Temperature sensor	Range and accuracy	－5℃…+70℃；±0.5℃
Humidity sensor	Range and accuracy	0…100%； ±3%
Connection line	Keys input	5 lines, max 10m
	EIB/KNX	Bus connection terminal
Installation	In a conventional 86 mm wiring box	
Operation and	Red LED and key	For program
display	Flash green LED	Normal
Temperature range	Operation	–5 °C ... + 45 °C
	Storage	–25 °C ... + 55 °C
	Transport	–25 °C ... + 70 °C

# KNX 6 Buttons touch panel(color options)

CHTB-06/01.1.11

86X86X32mm

0.15kg

CHARACTERISTICS

●Switching

● Dimming

●Control of blinds and shutters

●Button linked

●LED indication

PARAMETERS

Power supply	Operation voltage	21~30V DC , via the EIB bus
	Current consumption	<12mA
	Power consumption	<360mW
Operating and display	Corresponding 1 LED indication for each button, two colors of displaying	
	Programming LED and button	For assignment of the physical address
	Green LED flashing	Display the application layer running normally
connection	EIB/KNX	Bus connecting terminal (black/red)
Housing	Glass housing	
Installation	In a conventional 86mm wiring box	
Temperature range	Operation	–5 °C ... + 45 °C
	Storage	–25 °C ... + 55 °C
	Transport	– 25 °C ... + 70 °C

KNX Push button sensor Plus
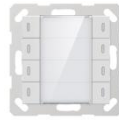
CHPLE-0x/02.y.0z
70.8x 70.8 x 18.7mm
0.1kg

CHARACTERISTICS

● Switching and dimming

● Control of blinds and shutters

● Sending of values, e.g. water line、brightness

● Recall and storage scene

● Shift register function

● RGB and RGBW dimming

● Multiple operation, send up to 4 different data-type values

●Delay mode, such as delay send switch value, dimming value

● LED indication

●Temperature measurement

●8 logic functions,provide AND,OR,XOR,Threshold comparator,Format convert etc.

● 8 Event Group functions

PARAMETERS

Power supply	Operation voltage	21~30V DC , via the EIB bus
	Current input	<12mA
	Power consumption	<360mW
Operating and display	Corresponding 1 LED indication for each button, three colors of displaying	
	Programming LED and button	For assignment of the physical address
Num. of button	>20000	
connection	EIB/KNX	Bus connecting terminal (black/red)
Housing/color	Plastic housing, white	
Installation	In a conventional 60mm wiring box	
Temperature range	Operation	–5 °C ... + 45 °C
	Storage	–25 °C ... + 55 °C
	Transport	– 25 °C ... + 70 °C

# KNX Binary inputs, 4fold

CTBI-04/00.1

36×90×64mm

0.1kg

CHARACTERISTICS

●The switch and the dimming functions

●Operation blind and shutter functions

●Sending value/forced output function

●Scene control function

●Multiple operation function

●Switching sequence function

●Standard counting and differential counting function

●Channel disable/enable function

PARAMETERS

Power Supply	Operation voltage	21~30V DC, via the EIB bus
	Current consumption	<12mA
	Power consumption	Max.360mW
Inputs	Number of channel	4
	Allow voltage range	0~265V AC/DC
	Input current	Max.2mA
	The signal level 0	0~3V AC/DC
	The signal level 1	9~265V AC/DC
	Allow cable length	≤100M (Cross section for1.5 mm^2)
Operation and display	Red LED and button	For assigning the physical address
	Green LED flashing	For display the application layer running normally
	Channel LED	Corresponding to the input channel instructions situation
	Manual button	Change the channel button corresponding input
	Manual / automatic LED	Used to indicate the manual/automatic mode state
	Manual / automatic button	Used to switch manual and automatic mode
Connections	EIB/KNX	Bus connection terminal (black/red)
	Input	Screw terminals
Temperature	Operation	-5℃~45℃
	Storage	-25℃~55℃
	Transport	-25℃~70℃
Mounting	On 35mm mounting rail	
CE norm	According to the EMC and low voltage guideline, EN 50090-2-2	
Certification	EIB/KNX certified	

KNX Universal Interfaces, 4fold
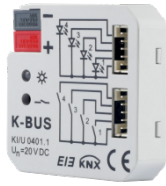
KI/U 0401.1

46×46×11.7mm

0.05kg

CHARACTERISTICS

●Switch function

●Switch and dimming of the lighting (also 1 button operation)

●Send of value and forced output

●Scene control

●Switching sequence

●Counter

●Multiple operation

●Shutter control (also 1 button operation)

●LED function

PARAMETERS

Power supply	Bus voltage	21-30V DC，via the EIB
Inputs/outputs	4-flod key scan	Can be individually configured function of channel
	4-fold LED scan	Can be individually configured function of LED
	Key scanning voltage	20V DC
	Key input current	0.5mA
	LED output voltage	5V DC
	LED output current	Max. 2.5mA，limited via series resistor of 2KΩ
	Safety	Short-circuit-proof, overload protection, reverse voltage protection
Connections	EIB / KNX	Via bus connecting terminal (Diameter 0.8mm)
	Connection for key	≤10M
Operation and display elements	Red LED and push button	For assigning the physical address
	Green LED flashing	For displaying application layer running normally
Temperature	Operation	−5 °C + 45 °C
	Storage	−25 °C + 55 °C
	Transport	− 25 °C + 70 °C
CE norm	In accordance with the EMC guideline and the low voltage guideline,EN50 090-2-2	
Certification	EIB/KNX certified	

KNX Sensor BP

CSBP-02/00.1

91×74×76mm

0.05kg

CHARACTERISTICS

●Illumination measure: 0lux~65535lux

●Movement detector area: (4m~5m) high sensitivity, (5m~7m) low sensitivity

●Illumination output with 3types data, the values can be sent cyclically

●Movement detector output with 3types data, the values can be sent cyclically

●Illumination with threshold function

●Movement detector sensitivity with level 1~10

●Logic (AND, OR, XOR) function among illumination value, movement detector
  value and input value, logic output with 3 data types, the output values can be
  sent cyclically

●Can be set Master-Slave interworking, the master output with 3 data types

●Illumination disabled, Movement detector disabled and logic disabled function

PARAMETERS

Power supply	Operation voltage	21-30V DC via the EIB bus
	Current consumption	Max. 12mA
	Power consumption	Max. 360mW
Connection	EIB / KNX	Bus connecting terminal
Operation and Display	LED(red) and	Assigning the physical address
	LED(green) flashing	Indicate application running ok
IP Grade	IP 20, EN 60529	
Temperature	Operation	−5°C ... +45°C
	Storage	−25 °C ...+55°C
	Transport	−25 °C ...+70°C
Environment	humidity	<93%,no condensation
Mounting	surface mounted	
CE norm	In accordance with the EMC guideline and the low voltage guideline, EN50 090-2-2	
Certification	EIB/KNX	

KNX Motion and Brightness Sensor-8M

CSBP-02/00.2

91×74×76mm

0.05kg

CHARACTERISTICS

●Illumination measure: 0lux~65535lux

●Movement detector area: mounting height * 2

●Illumination output with 3types data, the values can be sent cyclically

●Movement detector output with 3types data, the values can be sent cyclically

●Illumination with threshold function

●Logic (AND, OR, XOR) function among illumination value, movement detector

　value and input value, logic output with 3 data types, the output values can be

　sent cyclically

●Can be set Master-Slave interworking, the master output with 3 data types

●Illumination disabled, Movement detector disabled and logic disabled function

PARAMETERS

Power supply	Operation voltage	21-30V DC via the EIB bus
	Current consumption	Max. 12mA
	Power consumption	Max. 360mW
Connection	EIB / KNX	Bus connecting terminal
Operation and Display	LED(red) and	Assigning the physical address
	LED(green) flashing	Indicate application running ok
IP Grade	IP 20, EN 60529	
Temperature	Operation	−5°C ... +45°C
	Storage	−25 °C ...+55°C
	Transport	−25 °C ...+70°C
Environment	humidity	<93%,no condensation
Mounting	surface mounted	

# KNX Air Quality sensor

CSAQ-00/00.1

86 x 86 x 33 mm

0.18kg

CHARACTERISTICS

●PM2.5, PM10 air quality detection and display

●Temperature, humidity detection and display

●AQI (Air quality index) detection and display

●VOC (Volatile organic compounds)detection and display

● Warning for AQI, VOC, temperature or humidity above the setting value

●AQI level control

●Heating or cooling control

●Humidity level control

●VOC control

●Three logic functions

PARAMETERS

Power supply	Operation voltage	21~30V DC , via the EIB bus
	Current consumption	<12mA
Auxiliary supply	Voltage	12-30V DC
	Consumption	<1.5W
PM2.5/PM10 SENSOR	Range	0-999 μg/m³
	Efficiency	50%@0.3um 98%@>=0.5 um
	Response time	≤ 10s
Temperature sensor	Range and accuracy	－ 5 ° C ... + 45 ° C; ±1.0° C
Humidity sensor	Range and accuracy	0···100%; ±3%
VOC sensor	Range and accuracy	0-9.99 mg/m³ 10%
Connection line	EIB/KNX	Bus connection terminal
Installation	in a conventional 86 mm wiring box	
Operation and display	Red LED and key	For program
	Flash green LED	Normal
Temperature range	Operation	－5 ° C ... + 45 ° C
	Storage	－25 ° C ... + 55 ° C
	Transport	－ 25 ° C ... + 70 ° C

DALI Gateway
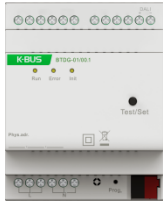
BTDG-01/00.1

72 x 90 x 64.2mm

0.3kg

CHARACTERISTICS

◆ Switching, dimming and set brightness value for each DALI device

◆ Scene control: up to 16 different scenes for each DALI device. And two data types to recall and store the scenes of the DALI device: 1 bit and 1 byte

◆ Group control: Every DALI devices can be belonged to 16 different groups at the same time. And switching, dimming and set brightness value for each group

◆ To configure the min. and the max. brightness value for each DALI device

◆ Send or response various status, e.g. switch, brightness, auxiliary supply etc.

◆ Fault detection of lamps and ballasts for DALI devices

◆ LED display, e.g. error , run, init

◆ Broadcast control: switching, dimming and set brightness value for all DALI devices

◆ Staircase lighting

PARAMETERS

Power Supply	Bus voltage, EIB	21~30V DC , via the EIB bus
	Current consumption, EIB	<12mA
	Power consumption, EIB	<360mW
	Auxiliary supply	100~240V AC, 50/60Hz
	Current consumption, Auxiliary	<28mA, at 220 V AC and max. load
	Power consumption, Auxiliary	<6W, at 220 V AC and max. load
DALI Output	1 Channel	Max.64 DALI devices
	Current	≤130mA
	Load voltage	15V DC
Connections	EIB / KNX	EIB bus connection terminal
	Inputs and output	Using screw terminals
Temperature	Operation	−5°C ... + 45 °C
	storage	−25 °C ... + 55 °C
	transport	− 25 °C ... + 70 °C
Mounting	Standard 35mm DIN rail installation	
Ambient	Max. air humidity	<93%, except dewing

DALI Gateway   2.0

BTDG-01/00.2

72 x 90 x 64.2mm

0.3kg

CHARACTERISTICS

- Switching, dimming and set brightness value for the top of 32 DALI device
- Scene control: up to 16 different scenes for each DALI device. And two data types to recall and store the scenes of the DALI device: 1 bit and 1 byte
- Group control: Every DALI devices can be belonged to 16 different groups at the same time. And switching, dimming and set brightness value for each group
- To configure the min. and the max. brightness value for each DALI device
- Send or response various status, e.g. switch, brightness, auxiliary supply etc.
- Fault detection of lamps and ballasts for DALI devices
- LED display, e.g. error , run, init
- Broadcast control: switching, dimming and set brightness value for all DALI devices
- Staircase lighting

PARAMETERS

Power Supply	Bus voltage, EIB	21~30V DC , via the EIB bus
	Current consumption, EIB	<12mA
	Power consumption, EIB	<360mW
	Auxiliary supply	100~240V AC, 50/60Hz
	Current consumption, Auxiliary	<28mA, at 220 V AC and max. load
	Power consumption, Auxiliary	<6W, at 220 V AC and max. load
DALI Output	1 Channel	Max.64 DALI devices
	Current	≤130mA
	Load voltage	15V DC
Connections	EIB / KNX	EIB bus connection terminal
	Inputs and output	Using screw terminals
Temperature	Operation	–5°C ... + 45 °C
	storage	–25 °C ... + 55 °C
	transport	– 25 °C ... + 70 °C
Mounting	Standard 35mm DIN rail installation	
Ambient	Max. air humidity	<93%, except dewing

# KNX IP Interface

BNIP-00/00.1

36 x 90 x 64 mm

0.1kg

CHARACTERISTICS

●Serves as a communication interface between KNX installations and IP networks

●For configure, parameterize and commission the EIB/KNX installation as well as bus monitor via the LAN using the ETS (ETS3 or later) software

●The IP address of the device can be fixed or can be received from a DHCP server

● Support the UDP telegram, and the port number 3671

●The factory default physical addresses are 15.15.255, and the address can be modified directly via local interface settings of ETS

PARAMETERS

Power supply	Operation voltage	21-30V DC，via the EIB bus
	Current consumption, EIB	<12mA
	Power consumption, EIB	<360mW
	Auxiliary power supply	20~30 V DC
	Auxiliary power consumption	<2.5W
Connections	EIB / KNX Via bus connecting terminal (black/red)	
	Auxiliary power Via bus connecting terminal (grey/yellow)	
	LAN RJ45 socket for10/100Base-T	
Operation and display	red LED and button For assigning the physical address	
	green LED flashing The device running indicator	
	LAN/LINK LED ON Network connection indicator	
	LAN/LINK LED flashing Network telegram traffic indicator	
	EIB/LINK LED ON Bus connection indicator	
	EIB/LINK LED flashing Bus telegram traffic indicator	
Temperature	operation	–5 °C ... + 45 °C
	storage	–25 °C ... + 55 °C
	transportation	– 25 °C ... + 70 °C
Ambient	Humidity	<93%, except dewing
Design	Standard 35mm DIN rail installation	

KNX RS485 Bidirectional Converter
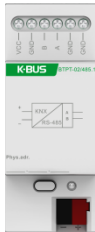
BTPT-02/485.1

64 x 90 x 36mm

0.1kg

CHARACTERISTICS

●Custom RS485 communication interface protocols, and serial communication configuration

●Setting telegram to be converted by using configuration software

●RS485 bus messages to be converted, and sent to the KNX/EIB network to control KNX devices

●KNX bus telegram to be converted, and sent to the RS485 network to the control RS485 device

●The length of RS485 telegram can be set around 1-64 byte

●Support 1 bit, 2 bit, 4 bit, 6 bit, 1 byte, 2 byte of KNX group address

●Support RS485 telegram converted to KNX/EIB, including read and write function

●Support RS485 telegram into 1 byte KNX/EIB telegram for 1byte data as adding and subtracting function

●Support KNX/EIB telegram converted to RS485, including read,write and response function

●485 to KNX and KNX to485 support 512, and 1byte type KNX support 256

PARAMETERS

Power supply	bus voltage	21-30V DC，via the EIB
Outputs	number of channel	1
	VCC range (DC)	9V<VCC<40V (recommendDC12V/24V)
	power consumption	42mW(12V),75mW (24V)
	Max. power consumption	120mW(12V),144mW(24V)
Connections	EIB / KNX	Via bus connecting terminal (Diameter 0.8mm)
	Load circuits	screw terminals
	Cable Cross-section	single core 0.2—6.0mm^2
		Multi core 0.2—4mm^2
Operation and display	red LED and button	For assigning the physical address
	green LED flashing	For application process normally running
Temperature range	operation	−5 °C ... + 45 °C
	storage	−25 °C ... + 55 °C
	transportation	− 25 °C ... + 70 °C
Design	Standard 35mm DIN RAIL installation	

# KNX RS232 Controller
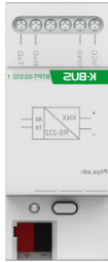
BTCC-02/232.1

90×36×64mm

0.1kg

CHARACTERISTICS

●Up to 64 serial port control commands, the command length for 64 bytes

●Two standard serial ports with three wires, nonsupport flow control

●The two serial ports are independent, and their baud rate, stop bits and parity   can be programmed

●Each serial port can set up to 11 baud rates at a time, and each baud rate has its own communication object

●Via the object of the baud rate trigger the control command sent to the device with serial port

PARAMETERS

Power supply	Operation voltage	21~30V DC, via the EIB bus
	Current consumption	<12mA
	Power consumption	<360mW
Outputs	Two serial ports with three lines, RxD, TxD, GND	
Connections	EIB / KNX	Bus connecting terminal (black/red)
	Load circuits	Screw terminals
	Wire range	Single-core 0.2—6.0mm^2
		Multi-core 0.2—4mm^2
Operating and display	Red LED and button	For assignment of the physical address
	Green LED flashing	Indicate the device running normally
Temperature	Operation	− 5 °C ... + 45 °C
	Storage	−25 °C ... + 55 °C
	Transport	− 25 °C ... + 70 °C
Ambient	Humidity	<93%, except dewing
Design	Modular installation device, on 35 mm DIN rail	
Baud rate	1200~115200 bps	
Transmission	<15m	

KNX IR Emitter
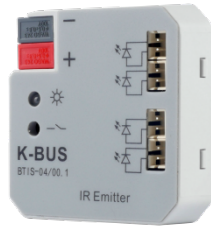
BTIS-04/00.1

46×46×11.7mm

0.05kg

CHARACTERISTICS

●4 channels

●Storing up to 64 different IR functional control codes for per channel

●A channel can link up to 16 group addresses

●The IR functional control codes can be assigned to 1bit or 1byte type of object

●The transmitting distance is about 2m

●Sending time and sending delay can be set for per control codes

●Each main function can include 5 slave functions

PARAMETERS

Power supply	Bus voltage	21-30V DC，via the EIB
	Standby current	<8mA
	work current	<20mA
	Power consumption	<240mW
Outputs	Number	4 Channels
	Max. transmitting distance	2m
	IR wavelength	940nm
	IR emission receiving angle	<45°
Connections	EIB / KNX	Via bus connecting terminal
	IR detector extension cable	<10m
Operation and display	Red LED and push button	For assigning the physical address
	Green LED flashing	For displaying application layer running normally
Temperature	Operation	−5 °C ... + 45 °C
	Storage	−25 °C ... + 55 °C
	Transport	− 25 °C ... + 70 °C

KNX Mounting IR Emitter

BTIS-04/00.1

46×46×11.7mm

0.05kg

CHARACTERISTICS

●Storing up to 64 different IR functional control codes for per channel

●A channel can link up to 16 group addresses

●The IR functional control codes can be assigned to 1bit or 1byte type of object

●The transmitting angle is full of direction

●Sending time and sending delay can be set for per control codes

●Each main function can include 5 slave functions

PARAMETERS

Power supply	Bus voltage	21-30V DC，via the EIB
	Current consumption	Max. 12mA
	Power consumption	Max. 360mW
Auxiliary Power	Work voltage	12-30V DC
	Auxiliary current	<200mA
	Auxiliary power consumption	<6W
Output	Infrared wave	940nm
	Distance	radius：4m~5m
Installation	Mounting	Height Max.4m
Connections	EIB/KNX	Via bus connecting terminal
Operation and display	Red LED and push button	For assigning the physical address
	Green LED flashing	For displaying application layer running normally
Temperature	Operation	–5 °C ... + 45 °C
	Storage	–25 °C ... + 55 °C
	Transport	– 25 °C ... + 70 °C
Environmental	humidity	<93%,except condensation

KNX IP Router

BNIPR-00/00.1

36 x 90 x 71 mm

0.1kg

CHARACTERISTICS

The IP Router can be used as line or backbone coupler. It provides a data connection between the upper KNXnet/IP line (main line or backbone) and the lower TP KNX bus line (sub line). The basic functionality of the IP Router is to couple the Ethernet with one or more KNX-TP lines. The IP Router features a galvanic isolation between the Ethernet and the KNX-TP line(s). Due to its flexibility the IP Router can be used as a line coupler e.g. to connect several KNX TP lines via Ethernet. And it can be used as a backbone coupler to connect several TP areas or different TP installation systems via Ethernet.

The main task of the IP Router is filtering the traffic according to the installation hierarchy. For group oriented communication the traffic is filtered according to the built-in filter tables.

With the ETS or any other KNX compatible commissioning tool the IP Router can be used as the programming interface. For this purpose the device provides up to 4 additional physical addresses that can be used for tunneling.

PARAMETERS

Power supply	Operation voltage	21-30V DC, via the EIB bus
	Current consumption,EIB	<20mA
Connections	KNX/EIB	EIB bus connection terminal
	LAN	RJ45 socket for 100 Mbit and 10 Mbit BaseT, IEEE 802.3 networks
Operation and display	LED Bus State LAN green	LED Bus State LAN red
	LED Bus State KNX green	Function button
	LED Traffic KNX green	LED Traffic KNX red
	LED Traffic LAN green	LED Traffic LAN red
	LED PA orange	LED PA red
	LED GA green	LED GA red
	Programming button	Programming LED
Temperature	operation	–5 °C ... + 45 °C
	storage	–25 °C ... + 55 °C
	transportation	– 25 °C ... + 70 °C
Ambient	Humidity	5~93%, except dewing
Design	Standard 35mm DIN rail installation	
Housing	Plastic PA66 housing grey	

KNX Line Coupler

BNLC-00/00.1

36 x 90 x 71 mm

0.1kg

CHARACTERISTICS

The coupler provides a data connection between two separate EIB bus lines and also isolates the bus lines from each other in order to enable the independent local operation of a bus line.

The coupler can be used as line coupler, backbone coupler or repeater as well in existing EIB networks as in new KNX EIB networks. It has a filter table with the help of which bus telegrams are either blocked off from one of the two lines or are passed on to another line thus reducing the bus load. The filter table is created by the ETS (EIB Tool Software) automatically on commissioning the system.

Used as a line coupler, it joins up the lines with the main line to create a function zone; as a backbone coupler, it joins up the function zones with the overriding backbone line; as a repeater the coupler enables the connection of more than 64 bus devices to one bus line. Up to three repeaters can be connected to one bus line thus enabling the connection of a total of 252 bus devices (additionally to the three repeaters) to one bus line.

PARAMETERS

Power supply	Primary line	21-30V DC, used for power supply of the device
	Secondary line	21-30V DC
	Current consumption,EIB	<10mA
Connections	EIB ,mian/sub line	bus connection terminal
Operation and display	LED Bus State Main green	LED Bus State Main red
	LED Bus State Sub green	LED Traffic Sub green
	LED Traffic Main green	LED Traffic Sub red
	LED Traffic Main red	LED Physical Address
	Programming button	LED Group Address
	Programming LED	Function button
Temperature	operation	–5 °C ... + 45 °C
	storage	–25 °C ... + 55 °C
	transportation	– 25 °C ... + 70 °C
Ambient	Humidity	5~93%, except dewing
Design	Standard 35mm DIN rail installation	
Housing	Plastic PA66 housing grey	

RF KNX transceiver
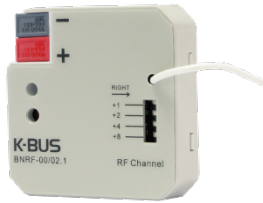
BNRF-00/02.1

46×46×11.7mm

0.1kg

CHARACTERISTICS

The RF KNX transceiver is used with the RF USB transceiver as well. The RF KNX transceiver is connected to the KNX bus, the RF USB transceiver is connected to a PC. They are used for facilitating communication between the PC and the KNX system via RF, in order to configure, parameterize and commission the EIB/KNX installation as well as bus monitor using the ETS (ETS3 or later) software. Due to the use of RF communication, so it gives us a lot of convenience in project commissioning.

The RF KNX transceiver has not an application program, but it is able to use the ETS to allocate the physical address. The factory default physical addresses are 15.15.255.

PARAMETERS

Power supply	USB voltage	5V DC
	Current consumption	<100mA,USB
	Power consumption	<500mW, USB
Interface	USB Standard 2.0	
Connections	Via USB socket type A	
	Max. cable length 5m (standardized)	
Temperature	Operation	– 5 °C ... + 45 °C
	Storage	–25 °C ... + 55 °C
	Transport	– 25 °C ... + 70 °C
Ambient	Humidity	<93%, except dewing
Mounting position	As required	

RF USB transceiver

BNRF-00/01.1

18×20×77mm

0.1kg

CHARACTERISTICS

The RF USB transceiver is used with the RF KNX transceiver as well. The RF USB transceiver is connected to a PC, the RF KNX transceiver is connected to the KNX bus. They are used for facilitating communication between the PC and the KNX system via RF, in order to configure, parameterize and commission the EIB/KNX installation as well as bus monitor using the ETS (ETS3 or later) software. Due to the use of RF communication, so it gives us a lot of convenience in project commissioning.

Note: a KNX drive program (GVS USB driver for KNX.exe) need to be installed in the PC, or else the RF USB transceiver cannot connect to the PC.

PARAMETERS

Power supply	USB voltage	5V DC
	Current consumption	<100mA,USB
	Power consumption	<500mW, USB
Interface	USB Standard 2.0	
Connections	Via USB socket type A Max. cable length 5m (standardized)	
Temperature	Operation	− 5 °C ... + 45 °C
	Storage	−25 °C ... + 55 °C
	Transport	− 25 °C ... + 70 °C
Ambient	Humidity	<93%, except dewing
Mounting position	As required	

KNX USB Interface

BNUS-00/00.1

18×20×77mm

0.1kg

CHARACTERISTICS

The KNX USB Interface is used for facilitating communication between the PC and the KNX system, in order to configure, parameterize and commission the EIB/KNX installation as well as bus monitor using the ETS (ETS3 or later) software.

The KNX USB Interface has not an application program, but it is able to use the ETS to allocate the physical address. The factory default physical addresses are 15.15.255. Note — a KNX drive program (GVS USB driver for KNX.exe) need to be installed in the PC, or else the interface cannot connect to the PC.

The KNX USB Interface can run in the following operating systems: Windows 2000，Windows XP，Windows Vista，Windows 7, Windows Me and Windows 98. Note — If running Windows Me and Windows 98, not only need to install the KNX drive program in the PC, but also need to install the HID driving.

PARAMETERS

Power supply	Operation voltage	21~30V DC, via the EIB bus
	Current consumption	<12mA, EIB
	Power consumption	<360mW, EIB
	USB voltage	5V DC
	Current consumption	<100mA,USB
	Power consumption	<500mW, USB
	Total consumption	<860mW, USB and EIB
Interface	USB Standard 2.0	
Connections	EIB / KNX	Bus connecting terminal Single-core 0.2—6.0mm^2 Multi-core 0.2—4mm^2
	PC-connection	Via USB socket type A Max. cable length 5m (standardized)
Operating and display	Prog. LED and button	For assignment of the physical address
Temperature	Operation	– 5 °C ... + 45 °C
	Storage	–25 °C ... + 55 °C
	Transport	– 25 °C ... + 70 °C
Ambient	Humidity	<93%, except dewing
Mounting position	As required	

KNX Power Supply
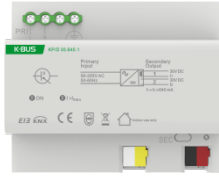
KP/D 30.640.1

108x 90 x 64mm

0.3kg

INTRODUCTION

EIB/KNX power supply produces and monitors EIB / KNX system voltage. The bus is decoupled from the power supply with the integrated choke.

The power supply is connected to the bus line with a bus connection terminal. A reset is triggered by pressing the reset push button and lasts 22 seconds (regardless of the duration of the push button action).The bus line disconnected from the power supply and the devices connected to this bus line are returned to their initial state. If the line should be disconnected for a longer period, the bus connection terminal must be removed from power supply.

A 30V DC auxiliary voltage is made available via an additional connection terminal. This voltage can be used to supply a further bus line (in connection with a separate choke).

PARAMETERS

Power supply	Input voltage: 95V ~255 Vac, 47~63Hz
	Power loss: <6 W
	Efficiency: 75%
Output	EIB/KNX output (PSU): 1 line with integrated choke
EIB/KNX nominal voltage	30 V DC +1/–2 V, SELV
Auxiliary voltage output	1 (without choke)
Auxiliary voltage:	30 V DC +1/–1 V, SELV
EIB/KNX nominal current	(Total of EIB/KNX and auxiliary voltage output)
	640mA, short-circuit-proof
Sustained short-circuit current	< 1.3 A
Mains failure back-up time	>200ms
EIB/KNX output	Bus connection terminal (black/red)
Auxiliary voltage output	connection terminal (yellow/grey)
Operation	–5 °C ~ + 45 °C
Storage	– 25 °C ~ + 55 °C
Transpor	– 25 °C ~ + 70 °C
Mounting	On 35mm mounting rail
CE norm	According to the EMC and low voltage guideline, EN 50090-2-2
Certification	EIB/KNX certified

KNX Push Button Sensor
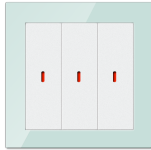
CHKP-0x/01.1.yz

70.8x 70.8 x 18.7mm

0.1kg

CHARACTERISTICS

● Switching and dimming

● Control of blinds and shutters

● Sending of values, e.g. water line、brightness

● Recall and storage scene

● Step-type switch

● Setting the RTC operation mode

● Multiple operation

● LED indication

PARAMETERS

Power supply	Operation voltage	21~30V DC , via the EIB bus
	Current input	<12mA
	Power consumption	<360mW
Operating and display	Corresponding 1 LED indication for each rocker switch, seven colors of displaying	
	Programming LED and button	For assignment of the physical address
	Green LED flashing	Display the device running normally
Num. of button	>20000	
connection	EIB/KNX	Bus connecting terminal (black/red)
Housing/color	Plastic housing, white/gray/yellow/blue/pink/black	
Installation	In a conventional 86mm wiring box	
Temperature range	Operation	–5 °C ... + 45 °C
	Storage	–25 °C ... + 55 °C
	Transport	– 25 °C ... + 70 °C
CE norm	According to the EMC , EN 50491-5-1，-5-2	
Certification	EIB/KNX certified	

KNX Smart Touch V10
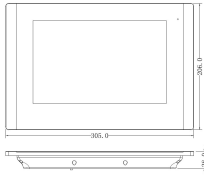
CHTF-10.1/20.1.2x

206 x 305 x 28 mm

1.3kg

CHARACTERISTICS

●10.1 inch color TFT, 1280x800 resolution, capacitive touch screen

●With switching, dimming, curtains control and value send functions

●Air quality display, with PM2.5, AQI, CO2, VOC etc.

●HVAC thermostat function

●Air conditioner, for IR Split Unit and Gateway Integrate control type

●Background Music control

●RGB dimming, Floor heating and Ventilation System control

●8 Time functions, 4 Event Group functions

●8 Logic functions, with AND, OR, XOR, Gate forwarding, Threshold comparator, and Format convert

●Time and date display

●Password protection, and Screensaver with clock, album, or none

PARAMETERS

Bus supply	Bus voltage	21-30DC， Via KNX/EIB
	Bus current	3mA
	Bus consumption	90mW
Auxiliary supply	Voltage	12-30V DC
	Current	200mA/30V, 500mA/12V
	Consumption	6W
Connections	EIB/KNX	Bus connection terminal
	Auxiliary supply	EIB auxiliary power supply terminal
Mounting	In a conventional 86 mm wiring box	
Operation and display	Red LED&push button	For assigning the physical address
	Green LED flashing	For displaying the application layer running normally
Temperature	Operation	–5°C~45°C
	Storage	-25°C~55°C
	Transport	-25°C~70°C

KNX Multifunctional Thermostat, 55mm

CHTPB-04/00.1.00

70.8 x 70.8 x 19.3 mm

0.05kg

CHARACTERISTICS

●Panel operation block function.

●HVAC thermostat function: Heating and Cooling, and up to three fan speeds control.

●Air conditioner function: supply IR Split Unit and Gateway Integrate control type.

●Floor heating function: adopt two-point control mode, and with 5 scenes.

●Ventilation system control: support inlet and exhaust control, and with 5 scenes.

●Switch sensor function: switch, dimming, blind, value output and scene control.

●4 Event Group functions, and 8 outputs for per Event Group.

●8 Logic functions, with AND, OR, XOR, Gate forwarding, Threshold comparator and Format convert

●Built-in temperature sensor

●With two PT1000 temperature sensor input interfaces.

PARAMETERS

Bus supply	Bus voltage	21-30V DC， Via KNX/EIB
	Bus current	<12mA
	Bus consumption	<360mW
Connection	EIB/KNX	Bus connection terminal
2ch PT1000 inputs	Connect two three-wires/two-wires PT1000 temperature sensor , Cable length <2m	
PT1000 sensor	Range and accuracy	－9.9°C ... ＋80°C;±1℃
Temperature sensor	Range and accuracy	－9.9°C ... ＋80°C;±1℃
Installation	In a conventional 60 mm wiring box	
Temperature range	Operation	–5 °C ... + 45 °C
	Storage	–25 °C ... + 55 °C
	Transport	–25 °C ... + 70 °C
Environment	Humidity	<93%,except condensation

KNX Universal Interface with 12V LED output，4/8-Fold
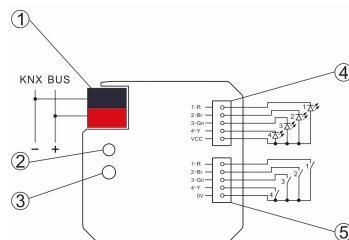
CTUI-04/04.1
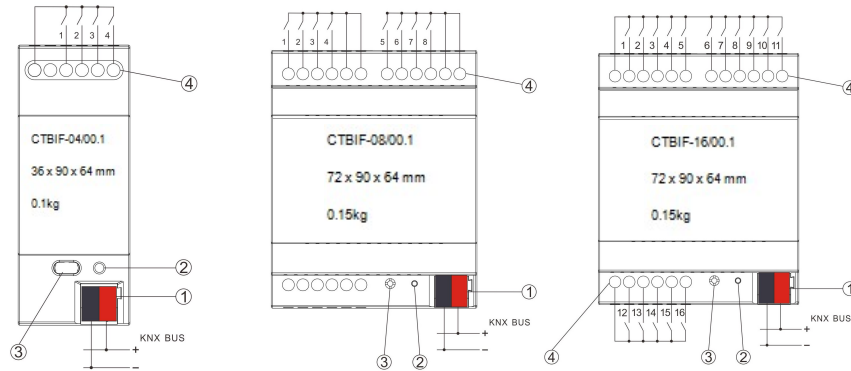
46×46×11.7mm

0.03kg
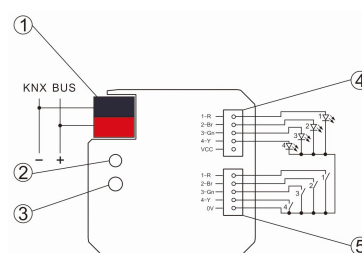
CTUI-08/08.1

46×46×11.7mm

0.03kg

CHARACTERISTICS

●Switch and dimming

●Control of blinds and shutters

●Send of values, e.g. water line, brightness

●Recall and storage scene

●Shift register function

●RGB and RGBW dimming

●Multiple operation, send up to different data-type values

●Delay mode, such as delay send switch value, dimming value

●LED output indication

●8 logic functions, provide AND, OR ,XOR, Threshold comparator, Gate forwarding, Format convert etc.

●8 Event Group functions

PARAMETERS

| Power supply	Bus voltage	21-30V DC，via the EIB
Inputs/outputs	4/8-Fold input channels	Can be individually configured function of channel
	4/8-Fold LED outputs	Can be individually configured function of LED
	Input scanning voltage	12V DC
	Input current	0.5mA
	LED output voltage	Common-cathode: 12 or 24V DC Common-anode: 12V DC The voltage will drop when LED consumption is overload.
	LED output current, 4-Fold	Common-cathode:1.2mA, Common-anode: 0.9mA
	LED output current, 8-Fold	Common-cathode:1mA, Common-anode: 0.9mA
	Safety	Reverse voltage protection
Connections	EIB / KNX	Via bus connecting terminal (Diameter 0.8mm)
	Connection for input	≤10M
Operation and display elements	Red LED and push button	For assigning the physical address
	Green LED flashing	For displaying application layer running normally
Temperature	Operation	−5 °C ... + 45 °C
	Storage	−25 °C ... + 55 °C
	Transport	− 25 °C ... + 70 °C
Environment	Humidity	<93% except condensation

KNX Binary Input for floating contact,4/8/16-Fold

CHARACTERISTICS

●Panel operation block function.

●HVAC thermostat function: Heating and Cooling, and up to three fan speeds control.

●Air conditioner function: supply IR Split Unit and Gateway Integrate control type.

●Floor heating function: adopt two-point control mode, and with 5 scenes.

●Ventilation system control: support inlet and exhaust control, and with 5 scenes.

●Switch sensor function: switch, dimming, blind, value output and scene control.

●4 Event Group functions, and 8 outputs for per Event Group.

●8 Logic functions, with AND, OR, XOR, Gate forwarding, Threshold comparator and Format convert

●Built-in temperature sensor

●With two PT1000 temperature sensor input interfaces.

PARAMETERS

| Bus supply	Bus voltage	21-30V DC， Via KNX/EIB
	Bus current	<12mA
	Bus consumption	<360mW
Connection	EIB/KNX	Bus connection terminal
2ch PT1000 inputs	Connect two three-wires/two-wires PT1000 temperature sensor , Cable length <2m	
PT1000 sensor	Range and accuracy	－9.9°C ... + 80°C;±1℃
Temperature sensor	Range and accuracy	－9.9°C ... + 80°C;±1℃
Installation	In a conventional 60 mm wiring box	
Temperature range	Operation	−5 °C ... + 45 °C
	Storage	−25 °C ... + 55 °C
	Transport	−25 °C ... + 70 °C
Environment	Humidity	<93%,except condensation

KNX Smart Touch V50
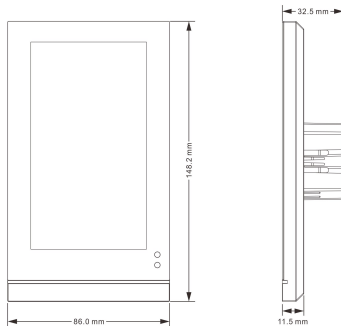
CHARACTERISTICS

●5 inch color IPS, 480x854 resolution, capacitive touch screen

●With switching, dimming, curtains control, scene and value send functions

●HVAC thermostat function, Floor heating and Ventilation System control

●Air conditioner, for IR Split Unit and Gateway Integrate control type

●Background Music control

●RGB and RGBW dimming, RGBW with color temperature setting

●Air quality display, with PM2.5, AQI, CO2, VOC etc.

●Energy Metering display, with current, voltage, power, energy.

●16 Time functions, 8 Event Group functions

●8 Logic functions, with AND, OR, XOR, Gate forwarding, Threshold comparator, and Format convert

●Proximity sensor, Screen brightness setting, Touch vibration feedback

● Colorful strip indication

●Time and Date display, Temperature and Humidity display, Day/Night status send

●Password protection,Panel block, and Screen saver with clock, album, or none

●Main page navigation function

PARAMETERS

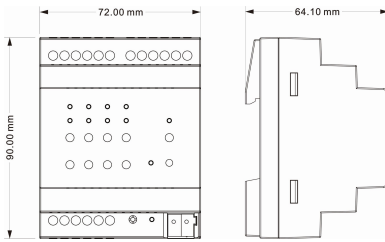| Bus supply	Bus voltage	21-30V DC， Via KNX bus
	Bus current	3.5mA/24V DC, 3.0mA/30V DC
	Bus consumption	<90mW
Auxiliary supply	Voltage	24-30V DC
	Current	<150mA/24V DC, <120mA/30V DC
	Consumption	<3.6W
Connections	KNX	Bus connection terminal
	Auxiliary supply	KNX auxiliary connection terminal
Installation	In a conventional 60mm or 86 mm wiring box	
Temperature	Operation	– 5 °C ... + 45 °C
	Storage	–25 °C ... + 55 °C
	Transport	– 25 °C ... + 70 °C
Proximity sensor	Max. approximately 30cm	

KNX Multifunction Actuator, 4-Fold
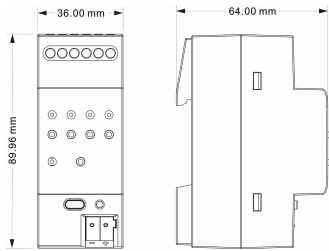
CHARACTERISTICS

The device can set max. 4 ch switch outputs, 2 ch AC curtain outputs. 1 ch DC curtain output, 1 ch fan control output or 1 ch valve control output. The output requirements are configured via parameter.

●Switch output: connect some electrical loads, such as lighting, sockets. All channels have the function of general switch, staircase lighting, light flashing and switch delay, scene,operation hours counter, logic and force operation;

●Curtain output(AC/DC), connect with motor blinds, awnings, roller blinds, vertical blind, etc. With operating shutter and slat adjustment, automatic sun protection , scene and safety operating etc.;

●Fan control: support up to three level fan speed, with general operation, forced operation, Auto. operation and status response etc.;

●Valve control: connect with 2pipes or 4pipes system, support three valve control types: 3point,open and close, continuous,PWM and 2state-ON/OFF, and support disable/enable HEAT and COOL, valve status response, valve purge etc..

| Power supply	Bus voltage	21-30V DC，via the KNX bus
	BUS standby current	Max. 12mA
	Bus power consumption	Max. 360mW
	Capacitor charge current	Max. 20mA
Output	Un rated voltage	230V AC(50/60Hz), 30V DC
	In rated current capacity	6A/70uF (max.100W, if LED load)
	Inrush current	120A/10ms
	Max. switching current	16A/240V AC
	Mechanical endurance	> 10^6
	Electrical endurance	>5 x10^4
Connection	KNX	Via bus connection terminals
	Outputs	Screw terminals, Wire Range multi-core 0.2-1.5mm^2 Single core 0.2-2.5mm^2 Torque 0.4N-m
Operation and display	Programming button and Red LED	For assigning the physical address
	Green LED flashing	For displaying application layer running normally
	Manual button	Switch output
	Output LED	Indicate the output states
	Man./Auto. button	Switch the Man. and Auto. mode
	Man./Auto. LED	Indicate the Man./Auto. mode state
Temperature	Operation	−5 °C ... + 45 °C
	Storage	−25 °C ... + 55 °C
	Transport	− 25 °C ... + 70 °C
Environment	Humidity	<93%,except condensation

KNX Multifunction Actuator, 8-Fold

CHARACTERISTICS

The device can set max. 8 ch switch outputs, 4 ch AC curtain outputs. 2 ch DC curtain outputs, 2 ch fan control outputs or 2 ch valve control outputs. The output requirements are configured via parameter.

●Switch output: connect some electrical loads, such as lighting, sockets. All channels have the function of general switch, staircase lighting, light flashing and switch delay, scene,operation hours counter, logic and force operation;

●Curtain output(AC/DC), connect with motor blinds, awnings, roller blinds, vertical blind, etc. With operating shutter and slat adjustment, automatic sun protection , scene and safety operating etc.;

●Fan control: support up to three level fan speed, with general operation, forced operation, Auto. operation and status response etc.;

●Valve control: connect with 2pipes or 4pipes system, support three valve control types: 3point,open and close, continuous,PWM and 2state-ON/OFF, and support disable/enable HEAT and COOL, valve status response, valve purge etc..

| Power supply	Bus voltage	21-30V DC，via the KNX bus
	Bus standby current	Max. 12mA
	Bus power consumption	Max. 360mW
	Capacitor charge current	Max. 20mA
Output	Un rated voltage	230V AC(50/60Hz), 30V DC
	In rated current capacity	10A/70uF (max.100W, if LED load)
	Inrush current	120A/10ms
	Max. switching current	16A/240V AC
	Mechanical endurance	$> 10^6$
	Electrical endurance	$>5 \times 10^4$
Connection	KNX	Via bus connection terminals
	Outputs	Screw terminals, Wire Range multi-core 0.2-1.5mm^2 Single core 0.2-2.5mm^2 Torque 0.4N-m
Operation and display	Programming button and Red LED	For assigning the physical address
	Green LED flashing	For displaying application layer running normally
	Manual button	Switch output
	Output LED	Indicate the output states
	Man./Auto. button	Switch the Man. and Auto. mode
	Man./Auto. LED	Indicate the Man./Auto. mode state
Temperature	Operation	–5 °C ... + 45 °C
	Storage	–25 °C ... + 55 °C
	Transport	– 25 °C ... + 70 °C
Environment	Humidity	<93%,except condensation

KNX Multifunction Actuator, 16-Fold
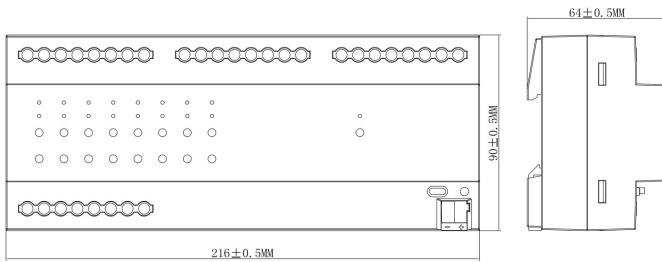
CHARACTERISTICS

The device can set max. 16 ch switch outputs, 8 ch AC curtain outputs. 4 ch DC curtain outputs, 4 ch fan control outputs or 4 ch valve control outputs. The output requirements are configured via parameter.

●Switch output: connect some electrical loads, such as lighting, sockets. All channels have the function of general switch, staircase lighting, light flashing and switch delay, scene,operation hours counter, logic and force operation;

●Curtain output(AC/DC), connect with motor blinds, awnings, roller blinds, vertical blind, etc. With operating shutter and slat adjustment, automatic sun protection , scene and safety operating etc.;

●Fan control: support up to three level fan speed, with general operation, forced operation, Auto. operation and status response etc.;

●Valve control: connect with 2pipes or 4pipes system, support three valve control types: 3point,open and close, continuous,PWM and 2state-ON/OFF, and support disable/enable HEAT and COOL, valve status response, valve purge etc..

Power supply	Bus voltage	21-30V DC，via the KNX bus
	Bus standby current	Max. 12mA
	Bus power consumption	Max. 360mW
	Capacitor charge current	Max. 20mA
Output	Un rated voltage	230V AC(50/60Hz), 30V DC
	In rated current capacity	10A/105uF (max.200W, if LED load)
	Inrush current	300A/2ms
	Max. switching current	20A/250V AC
	Mechanical endurance	> 10^6
	Electrical endurance	>5 x10^4
Connection	KNX	Via bus connection terminals
	Outputs	Screw terminals, Wire Range multi-core 0.2-2.5mm^2 Single core 0.2-4.0mm^2 Torque 0.8N-m
Operation and display	Programming button and Red LED	For assigning the physical address
	Green LED flashing	For displaying application layer running normally
	Manual button	Switch output
	Output LED	Indicate the output states
	Man./Auto. button	Switch the Man. and Auto. mode
	Man./Auto. LED	Indicate the Man./Auto. mode state
Temperature	Operation	–5 °C ... + 45 °C
	Storage	–25 °C ... + 55 °C
	Transport	– 25 °C ... + 70 °C
Environment	Humidity	<93%,except condensation

KNX Multifunction Actuator, 24-Fold
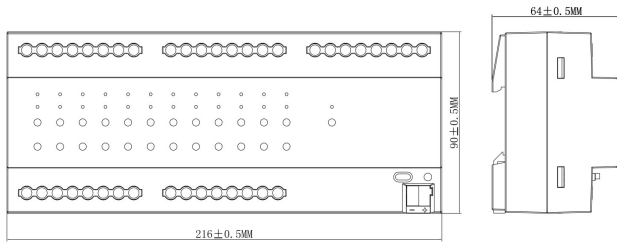
CHARACTERISTICS

The device can set max. 24 ch switch outputs, 12 ch AC curtain outputs. 6 ch DC curtain outputs, 6 ch fan control outputs or 6 ch valve control outputs. The output requirements are configured via parameter.

●Switch output: connect some electrical loads, such as lighting, sockets. All channels have the function of general switch, staircase lighting, light flashing and switch delay, scene,operation hours counter, logic and force operation;

●Curtain output(AC/DC), connect with motor blinds, awnings, roller blinds, vertical blind, etc. With operating shutter and slat adjustment, automatic sun protection , scene and safety operating etc.;

●Fan control: support up to three level fan speed, with general operation, forced operation, Auto. operation and status response etc.;

●Valve control: connect with 2pipes or 4pipes system, support three valve control types: 3point,open and close, continuous,PWM and 2state-ON/OFF, and support disable/enable HEAT and COOL, valve status response, valve purge etc..

Power supply	Bus voltage	21-30V DC，via the KNX bus
	Bus Standby current	Max. 12mA
	Bus power consumption	Max. 360mW
	Capacitor charge current	Max. 20mA
Output	Un rated voltage	230V AC(50/60Hz), 30V DC
	In rated current capacity	10A/105uF(max.200W,if LED load)
	Inrush current	300A/2ms
	Max. switching current	20A/250V AC
	Mechanical endurance	$> 10^6$
	Electrical endurance	$>5 \times 10^4$
Connection	KNX	Via bus connection terminals
	Outputs	Screw terminals, Wire Range multi-core 0.2-2.5mm^2 Single core 0.2-4.0mm^2 Torque 0.8N-m
Operation and display	Programming button and Red LED	For assigning the physical address
	Green LED flashing	For displaying application layer running normally
	Manual button	Switch output
	Output LED	Indicate the output states
	Man./Auto. button	Switch the Man. and Auto. mode
	Man./Auto. LED	Indicate the Man./Auto. mode state
Temperature	Operation	−5 °C ... + 45 °C
	Storage	−25 °C ... + 55 °C
	Transport	− 25 °C ... + 70 °C
Environment	Humidity	<93%,except condensation