

### FEATURES

- 4 configurable outputs for 230V valve control.
- 4 thermostats.
- 10 Logic functions.
- Total data saving on power failure.
- Manual control through buttons and status LED indicators.
- Common 230V supply required for the 4 outputs.
- KNX BCU integrated.
- Size 67 x 90 x 35 mm (2 DIN units).
- DIN rail unit assembly (EN 50022), with snap fit clamp.
- CE directives compliant.

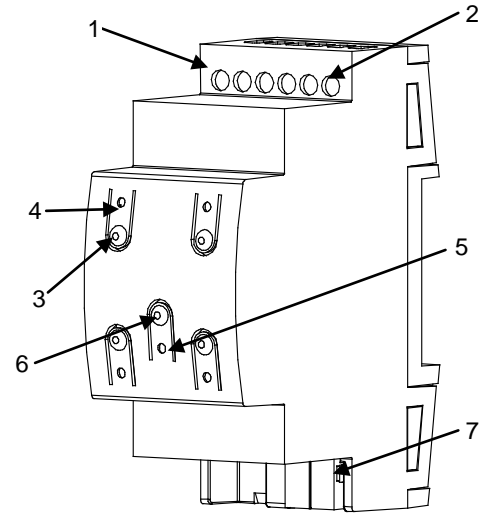


Figure 1. HeatingBOX 230V 4X

1. 230V input (live phase)	2. Valve outputs	3. Output control button	4. Output status indicator LED
5. Programming/Test LED	6. Programming/Test button	7. KNX connector	

**Programming/test button:** short button press to set programming mode. If this button is held while plugging the device into the KNX bus, it goes into safe mode.

**Programming/Test LED:** programming mode indicator (red). When the device goes into safe mode, it blinks (red) every half second. The manual mode is indicated by the green color. During start up (after reset or power failure) and if the device is not in safe mode, LEDs indicator blink red once.

### GENERAL SYSTEM SPECIFICATIONS

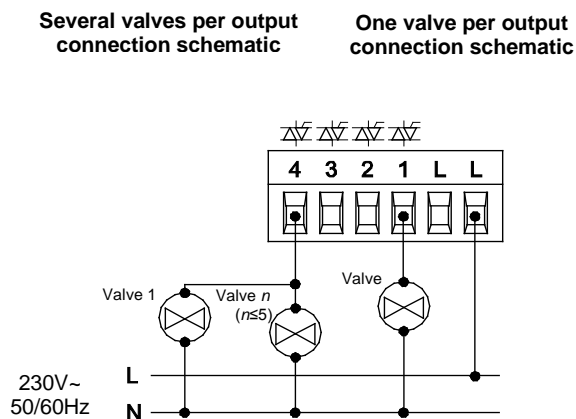
CONCEPT		DESCRIPTION		
Type of device		Electric operation control device		
KNX supply	Voltage (typical)	29VDC SELV		
	Voltage range	21...31VDC		
	Maximum consumption	Voltage	mA	mW
		29VDC (typical)	7,5	217,5
24VDC <sup>(1)</sup>	10	240		
Bus connection		Typical bus connector TP1, 0,80mm <sup>2</sup> section		
External power supply		230V 50/60Hz (only phase, for valve supply)		
Ambient temperature		from 0°C to +55°C		
Storage temperature		from -20°C to +55°C		
Ambient humidity		5 to 95% RH (no condensation)		
Storage humidity (relative)		5 to 95% RH (no condensation)		
Complementary characteristics		Class B		
Safety class		II		
Operation type		Continuous operation		
Device action type		Type 1		
Electrical solicitations period		Long		
Type of protection		IP20, clean environment		
Assembly		Independent control assembly device to be mounted inside of electrical panels with DIN rail (EN 50022).		
Minimal clearances		Not required		
KNX bus failure response		Data saving according to parameterization.		
Response when restarting KNX bus		Data recovering change according to parameterization.		
Operation indication		Programming LED indicates programming mode (red) and test mode (green). Each output LED indicates its status (fixed = active output; flashing = overload or short-circuit error)		
Weight		98g		
PCB CTI index		175V		
Enclosure		PC FR V0 halogen free		

<sup>(1)</sup> Maximum consumption in the worst case scenario (KNX Fan-In model)

OUTPUT SPECIFICATIONS AND CONNECTIONS		
CONCEPT	DESCRIPTION	
Number of outputs	4	
Output type	Solid state switching device	
Maximum values per output	Quantity of valves <sup>(2)</sup>	5
	Stationary current	200mA (considering an ambient temperature of 35°C)
	Inrush current	2,5A
Short-circuit protection	YES	
Overload protection	YES	
Connection method	Cable screw terminal	
Cable cross-section	0,5 mm <sup>2</sup> to 2,5mm <sup>2</sup> (26-12 AWG)	

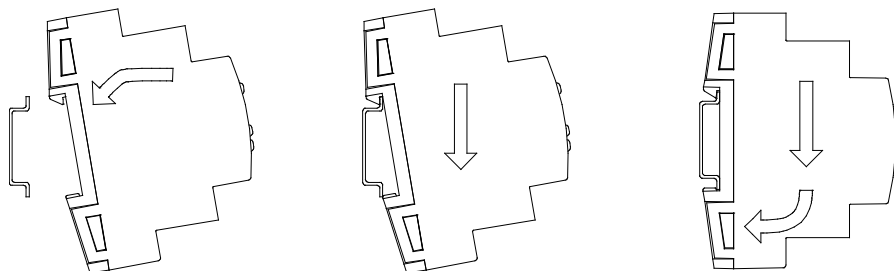
<sup>(2)</sup> This value could be more restrictive depending on the valve stationary current and inrush current.

Connecting more than one valve to each output is allowed as long as the maximum current per output is not exceeded:

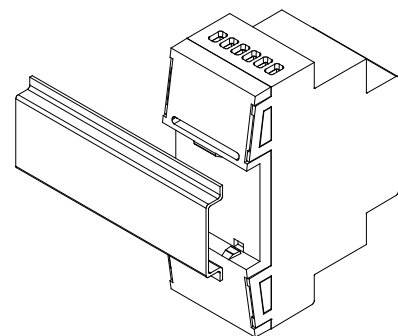
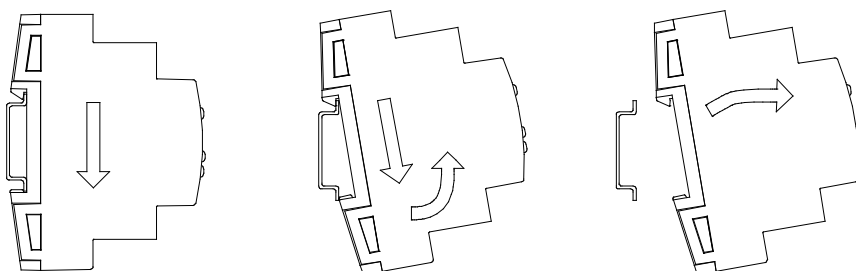


**NOTE:** Simultaneous connection of one valve to several outputs is not allowed.

#### Attaching HeatingBOX 230V 4X to DIN rail:



#### Removing HeatingBOX 230V 4X from DIN rail:



**Figure 2.** Mounting HeatingBOX 230V 4X on a DIN rail

## SAFETY INSTRUCTIONS

- Installation should only be performed by qualified electricians following applicable regulations on preventing accidents, as required by law
- Do not connect Main Voltage (230VAC) or any other external voltages to any point of the BUS.
- Connecting an external voltage might put the entire KNX system at risk.
- Make sure during the installation that there is always sufficient insulation between the mains voltage 230VAC and the bus or the extension inputs.
- Once the device is installed, it must not be accessible from the outside.
- Keep away from water and do not cover the device with clothes, paper or any other material when in use.
- The WEEE logo means that this device contains electronic parts and it must be discarded properly following the instructions of <http://zennio.com/wEEE-regulation>.

