

FEATURES

- 8 configurable outputs for 230V valve command.
- 8 thermostats.
- 10 Logic functions.
- Total data saving on power failure.
- Manual control through buttons and status LED indicators.
- Common 230V supply required for feeding of the 8 outputs.
- KNX BCU integrated.
- Size 67 x 90 x 80 mm (4.5 DIN units).
- DIN rail unit assembly (EN 50022), with snap fit clamp.
- CE directives compliant.

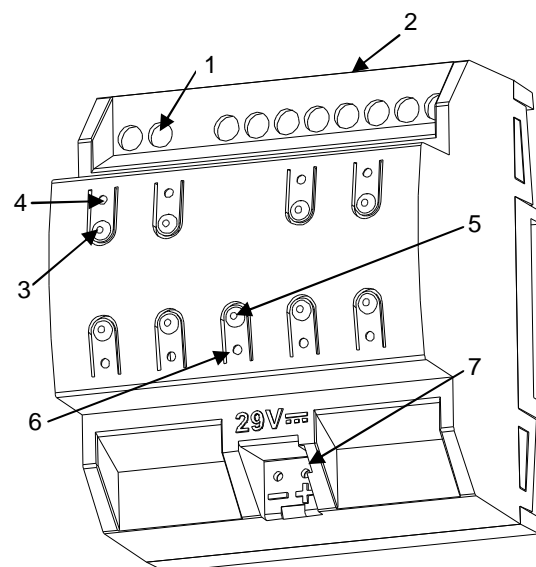


Figure 1. HeatingBOX 230V 8X

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)	10.7	310.3
		24VDC ⁽¹⁾	15	360
Bus connection		Typical bus connector TP1, 0.50 mm² 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			181 gr.	
PCB CTI index			175 V	
Enclosure			PC FR V0 halogen free	

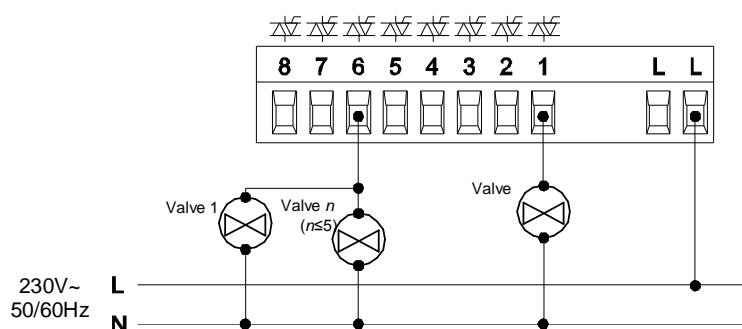
⁽¹⁾ Maximum consumption in the worst case scenario (KNX Fan-In model)

OUTPUT SPECIFICATIONS AND CONNECTIONS	
CONCEPT	DESCRIPTION
Number of outputs	8
Output type	Solid state switching device
Maximum current for each output	Up to 5 valves (while a maximum current of 200 mA at 35°C will be kept)
Short-circuit protection	YES
Overload protection	YES
Connection method	Cable screw terminal
Cable cross-section	0.5 mm ² to 4 mm ² (26-10 AWG)

Supply to one or several valves from each output is allowed meanwhile maximum current per output will be kept:

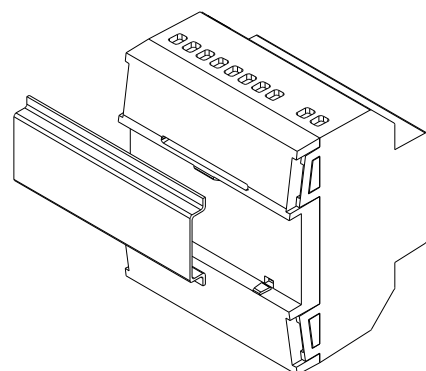
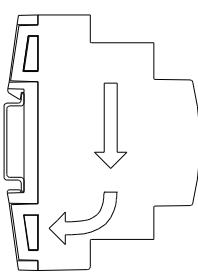
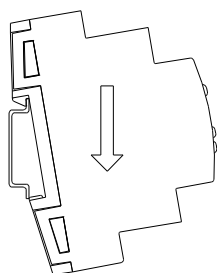
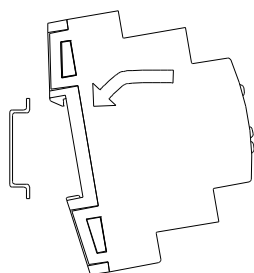
Several valves per output connection schematic

One valve per output connection schematic



NOTE: Simultaneous supply to a valve from several outputs is not allowed.

Attaching HeatingBOX 230V 8X to DIN rail:



Removing HeatingBOX 230V 8X from DIN rail:

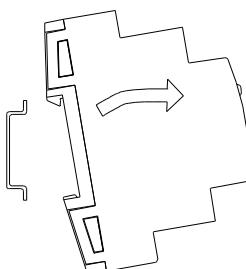
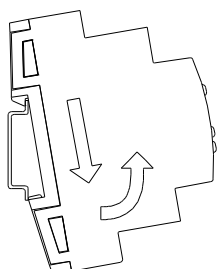
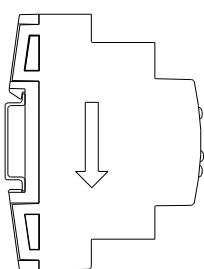


Figure 2. Assembly of HeatingBOX 230V 8X in DIN rail

⚠ 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 (230 VAC) 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>.