

Heating actuator with 8 outputs 230VAC ZCL-8HT230

Technical Documentation

FEATURES

- 8 configurable outputs for 230V valve control.
- 8 thermostats.
- 10 Logic functions.
- Total data saving on power failure.
- Manual control through buttons and status LED indicators.
- Common 230V supply required for the 8 outputs.
- Integrated KNX BCU.
- Size 67 x 90 x 79 mm (4.5 DIN units).
- DIN rail mounting (EN 50022), through pressure.
 - Conformity with the CE directives (CE-mark on the right side).

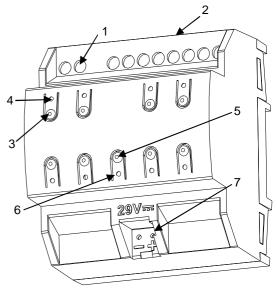


Figure 1. HeatingBOX 230V 8X

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 press to set programming mode. If this button is held while plugging the device into the KNX bus, it enters the safe mode. If this button is held for more than 3 seconds, the device enters the test mode.

Programming/Test LED: programming mode indicator (red). When the device enters into safe mode, it blinks (red) every half second. The manual mode is indicated by the green color. During the start-up (reset or after KNX bus failure) and if the device is not in safe mode, it emits a red flash.

CONCEPT			DESCRIPTION			
Type of device			Electric operation control device			
	Voltage (typica	al)	29VDC SELV			
KNX supply	Voltage range		2131VDC			
	Maximum	Voltage	mA	mW		
		29VDC (typical)	10.7	310.3		
,	consumption	24VDC ⁽¹⁾	15	360		
	Bus connection		Typical bus connector TP1 for rigid cable 0.80mm Ø			
External power supply			230V 50/60Hz (only phase, for valve supply)			
Operation temperature			from 0°C to +55°C			
Storage temperature			from -20°C to +55°C			
	on humidity		5 to 95% RH (no condensation)	5 to 95% RH (no condensation)		
Storage humidity			5 to 95% RH (no condensation)			
Complementary characteristics		eristics	Class B			
Protection class			II			
Operation type			Continuous operation			
Device action type			Type 1			
Electrical stress period			Long			
Degree of protection			IP20, clean environment			
Installation			Independent device to be mounted inside electrical panels with DIN rail (EN 50022)			
Minimal clearances			Not required			
Response on KNX bus failure		ailure	Data saving according to parameterization.			
Response on KNX bus restart		estart	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			181g			
PCB CTI index			175V			
Housing material			PC FR V0 halogen free	PC FR V0 halogen free		

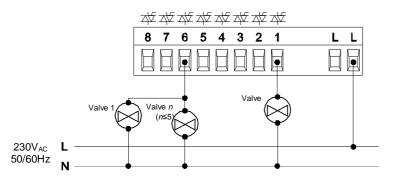
⁽¹⁾ Maximum consumption in the worst case scenario (KNX Fan-In model)

OUTPUT SPECIFICATIONS AND CONNECTIONS				
CONCEPT		DESCRIPTION		
Number of outputs		8		
Output type		Solid state switching device		
Maximum values per output	Quantity of valves ⁽²⁾	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		0.5mm² to 2.5mm² (26-12 AWG)		

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

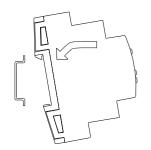
Connecting more than one valve to each output is allowed as long as the maximum current per output is not exceeded:

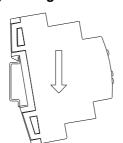
Several valves per output connection schematic connection schematic

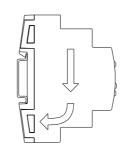


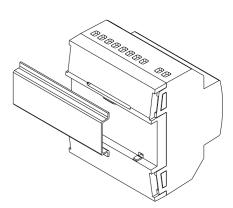
NOTE: Simultaneous connection of one valve to several outputs is not allowed.

Attaching HeatingBOX 230V 8X to DIN rail:

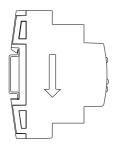


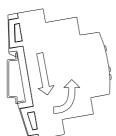






Removing HeatingBOX 230V 8X from DIN rail:





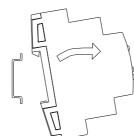


Figure 2. Mounting HeatingBOX 230V 8X on a DIN rail

NSAFETY INSTRUCTIONS

- Installation should only be performed by qualified professionals according to the laws and regulations applicable in each country.
- Do not connect the mains voltage nor any other external voltage to any point of the KNX bus; it would represent a risk for the entire KNX system. The facility must have enough insulation between the mains (or auxiliary) voltage and the KNX bus or the wires of other accessories, in case of being installed.
- Once the device is installed (in the panel or box), it must not be accessible from outside.
- Keep the device away from water and do not cover it with clothes, paper or any other material while in use.
- The WEEE logo means that this device contains electronic parts and it must be properly disposed of by following the instructions at http://zennio.com/weee-regulation.