

ZIO3X010 TECHNICAL DOCUMENTATION

FEATURES

- 3 connections than can be configured as 0-10V output, 0-10V input or 4-20mA input
- Manual operation of the 0-10VDC outputs
- 1 fan coil module
- 3 thermostats
- 10 logic functions
- · Total data saving on power failure
- Integrated KNX BCU
- Dimensions 67 x 90 x 36mm (2 DIN units)
- DIN rail mounting according to IEC 60715 TH35, with fixing clamp
- Conformity with the CE directives (CE-mark on the right side)

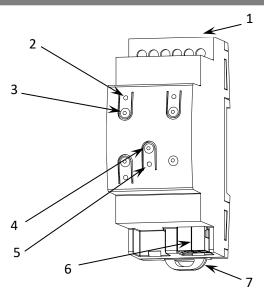


Figure 1: MINiBOX 0-10V X3

 Multifunction inputs/outputs 	2.	0-10V output status LED		3. 0-10V output control button	4.	Programming/Test button
Programming/Test LED		6. KNX	CC	nnector	7.	Fixing clamp

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 the 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.

GENERAL SPECIFICATIONS						
CONCEPT			DESCRIPTION	DESCRIPTION		
Type of device			Electric operation control dev	Electric operation control device		
Voltage (typical)			29VDC SELV			
	Voltage range		2131VDC	2131VDC		
IZNIV avanalis	Maximum consumption	Voltage	mA	mW		
KNX supply		29VDC (typical)	18.5	536.5		
		24VDC ¹	25	600		
	Connection type		Typical TP1 bus connector fo	Typical TP1 bus connector for 0.80mm Ø rigid cable		
External power			Not required			
Operation tem			0°C +55°C	0°C +55°C		
Storage temp	erature		-20°C +55°C			
Operation hur			5 95%			
Storage humi	dity		5 95%			
Complementa	ary characteristic	cs .	Class B	Class B		
Protection cla	SS		III	III		
Operation type Device action type			Continuous operation	Continuous operation		
			Type 1			
Electrical stre	ss period		Long	Long		
Degree of protection			IP20, clean environment	IP20, clean environment		
Installation				Independent device to be mounted inside electrical panels with DIN rail (IEC 60715)		
Minimum clea	rances			Not required		
	KNX bus failure			Data saving according to parameterization		
				Data recovery according to parameterization		
Response on KNX bus restart Operation indicator				The programming LED indicates programming mode (red) and test mode		
				(green). Each output LED indicates its status		
Weight			80g	80g		
PCB CTI inde	X		175V			
Housing mate	rial		PC FR V0 halogen free	PC FR V0 halogen free		

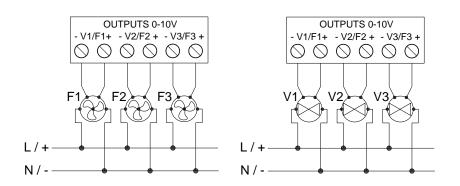
¹ Maximum consumption in the worst-case scenario (KNX Fan-In model).

0-10V OUTPUT SPECIFICATIONS AND CONNECTIONS			
CONCEPT	DESCRIPTION		
Number of outputs	3		
Output type	0-10VDC		
Maximum load per output	2mA		
Connection method	Screw terminal block		
Cable cross-section	0.5-2.5mm² (IEC) / 26-12AWG (UL)		
Maximum cable length	30m		
Output per common	1		

10V / 4-20mA INPUTS SPECIFICATIONS AND CONNECTIONS		
CONCEPT	DESCRIPTION	
Number of inputs	3	
Operation voltage	0-10VDC	
Operation current	4-20mA	
Connection method	Screw terminal block	
Cable cross-section	0.5-2.5mm ² (IEC) / 26-12AWG (UL)	
Maximum cable length	30m	

Note: Each of the three pairs of terminals can act as an input or an output according to its parameterization.

WIRING DIAGRAMS



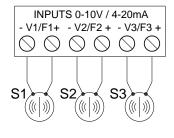
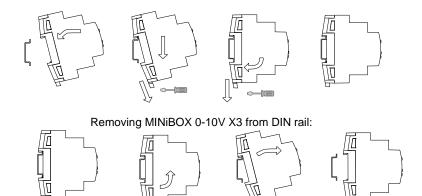


Figure 2: Wiring examples

Attaching MINiBOX 0-10V X3 to DIN rail:



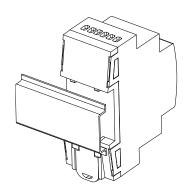


Figure 3: Mounting MINiBOX 0-10V X3 on DIN rail



SAFETY INSTRUCTIONS AND ADDITIONAL NOTES

- 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 (condensation over the device included) 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 https://www.zennio.com/en/legal/weee-regulation.
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