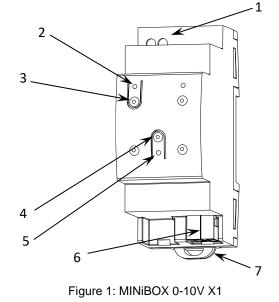
•Zennio

1 fold 0-10 V analog input/output multifunction module

ZIO1X010

FEATURES

- 1 connection than can be configured as 0-10 V output, 0-10 V input or 4-20 mA input
- Input/output is galvanically isolated from the KNX bus
- Manual operation of the 0-10 VDC outputs
- 1 fan coil module
- 1 thermostats
- 10 logic functions
- Total data saving on power failure
- Integrated KNX BCU (TP1-256)
- Dimensions 67 x 90 x 36 mm (2 DIN units)
- DIN rail mounting according to IEC 60715 TH35, with fixing clamp
- Conformity with the CE, UKCA, RCM directives (marks on the right side)



1. Multifunction input/output	2. 0-10V output status	LED 3	 0-10V output control button
4. Programming/Test button	5. Programming/Test LED	6. KNX connecto	or 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				
Type of device		Electric operation control de	Electric operation control device			
	Voltage (typic	al)	29 VDC SELV			
KNX supply	Voltage range		21-31 VDC	21-31 VDC		
	Maximum consumption	Voltage	mA	mW		
		29 VDC (typical)	14.9	432.1		
	consumption	24 VDC ¹	20	480		
	Connection type			Typical TP1 bus connector for 0.8 mm Ø rigid cable		
External power supply		Not required	Not required			
Operation temperature		0 +55 °C	0 +55 °C			
Storage temperature		-20 +55 °C	-20 +55 °C			
Operation humidity		5 95%	595%			
Storage humidity		595%				
Complementary characteristics		Class B	Class B			
Protection class		III				
Operation type		Continuous operation				
Device action type		Type 1	Туре 1			
Electrical stress period		Long	Long			
Degree of protection		IP20, clean environment				
Installation		Independent device to be mo 60715)	Independent device to be mounted inside electrical panels with DIN rail (IEC 60715)			
Minimum clea	Minimum clearances		Not required			
Response on	KNX bus failure	•	Data saving according to parameterization			
Response on KNX bus restart		Data recovery according to parameterization				
Operation indicator		The programming LED indicates programming mode (red) and test mode				
		(green). Each output LED indicates its status.				
Weight		80 g				
PCB CTI index		175 V	175 V			
Housing material		PC FR V0 halogen free	PC FR V0 halogen free			

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

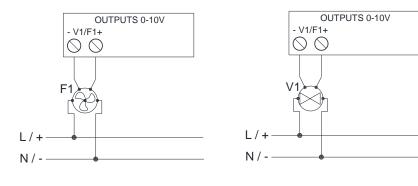
MINiBOX 0-10V X1

TECHNICAL DOCUMENTATION

0-10V OUTPUT SPECIFICATIONS AND CONNECTIONS				
CONCEPT	DESCRIPTION			
Number of outputs	2			
Output type	0-10 VDC			
Maximum load per output	2 mA			
Connection method	Screw terminal block (0.4 Nm max.)			
Cable cross-section	0.5-2.5 mm ² (IEC) / 26-12 AWG (UL)			
Maximum cable length	30 m			
Output per common	1			
0-10V / 4-20mA INPUT SPECIFICATIONS AND CONNECTIONS				
CONCEPT	DESCRIPTION			
Number of inputs	1			
Operation voltage	0-10 VDC			
Operation current	4-20 mA			
Connection method	Screw terminal block (0.4 Nm max.)			
Cable cross-section	0.5-2.5 mm ² (IEC) / 26-12 AWG (UL)			
Maximum cable length	30 m			

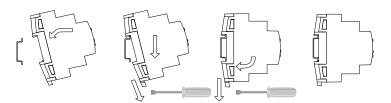
Note: Each of the two pairs of terminals can act as an input or an output according to its parameterization.

WIRING DIAGRAMS

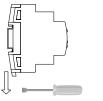


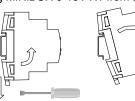


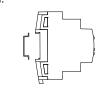
Attaching MINiBOX 0-10V X1 to DIN rail:

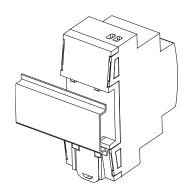


Removing MINiBOX 0-10V X1 from DIN rail:









INPUTS 0-10V / 4-20mA

V1/F1+

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Figure 3: Mounting MINiBOX 0-10V X1 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.
- This device contains software subject to specific licences. For details, please refer to https://zennio.com/licenses.