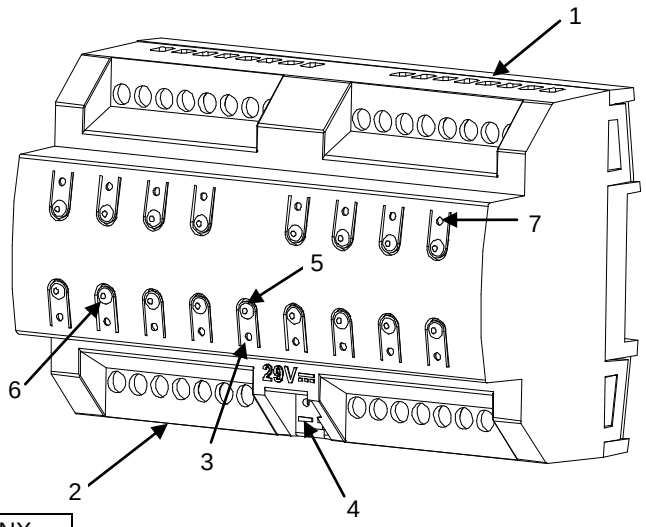
MAXinBOX FANCOIL 4CH2P

4 channel two pipes fan coil controller
ZCL-4XFC2P

Technical Documentation

FEATURES

- Up to 4 two pipes fan coil control outputs.
- Manual output operation with push button and LED status indicator.
- Logical functions included.
- Output timing facilities.
- Total data saving on power failure.
- Size 90 x 60 x 140 mm (8 DIN units).
- DIN rail unit assembly (EN 50022), with snap fit clamp.
- No external power supply required other than the bus.
- KNX BCU integrated.
- Possibility to connect different phases in adjoining outputs.
- CE directives compliant.



1. Upper outputs	**2**. Lower outputs	**3**.Programming/Test LED	**4**.KNX connector
5.Programming/Test button	**6**.Output control button	**7**.Output status LED indicator	

Figure 1. MAXinBOX FANCOIL 4CH2P

Programming/test button: short button press to set the programming mode. If this button is held while plugging the device into the KNX bus, it goes into safe mode. If this button is held more than 3 seconds, the device goes into test mode.

LED: programming mode indicator (red). When the device goes into safe mode, it blinks (red) every half second. It lights in green when the device is in manual mode. During start up (after reset or power failure), if the device is not in safe mode, programming LED blinks in blue for a few seconds.

GENERAL SYSTEM SPECIFICATIONS				
CONCEPT			**DESCRIPTION**	
Type of device			Electric operation control device	
KNX Supply	Voltage (typical)		29VDC SELV	
	Voltage range		21…31V DC	
	Maximum consumption	Voltage	mA	mW
		29VDC (typical)	11.5	333
		24VDC	12.5	300
		Starting	25	725
	Bus connection		Typical bus connector TP1, 0.50 mm² section	
External power supply			No	
Ambient temperature			from 0ºC to +55ºC	
Storage temperature			from -20ºC to +70ºC	
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).	
KNX bus failure response			Data saving and output status change according to programming.	
Response when restarting KNX bus			Data recovering and output status change according to programming.	
Operation indication			Programming LED indicates programming mode (red) and test mode (green). Output status LED indicators reflect current output state.	
Weight			440gr.	
PCB CTI index			175 V	
Enclosure			PC FR V0 halogen free	

OUTPUTS SPECIFICATIONS AND CONNECTIONS		
Contact type		Potential free outputs through bistable relays.
Disconnection type		Micro-disconnection
Rated current by output		~8A (4A) * 250V AC (2000 VA) ⎓8A (4A) * 30V DC (240W)
Outputs per common		3 (fan outputs) or 1 (pipe outputs)
Different phases connection		Possibility to connect different phases in adjoining channel outputs
Maximum current		32A per block
Maximum power	Resistive load	2000W
	Inductive load	1000VA
Connection type		Terminal block (screw)
Recommended cable section		0.25 mm² to 4 mm²
Cable type		Stranded or solid wire.
Maximum response time		50 ms
Expected life	Mechanical	1 million operations (180cpm)
	Electrical	50.000 cycles (6cpm/ resistive load)

WIRING AND ASSEMBLY DIAGRAMS

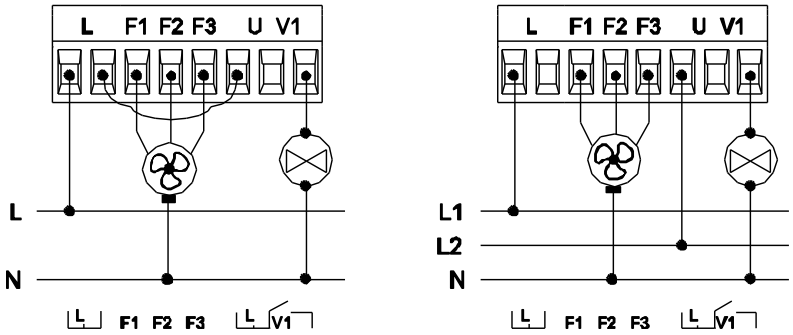
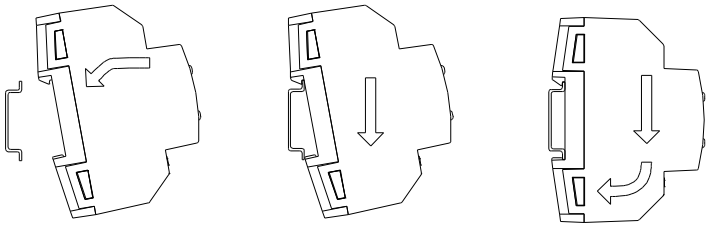
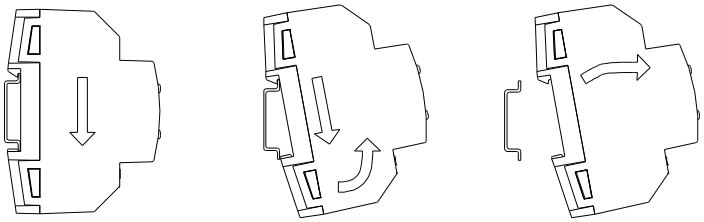


Figure 2. FAN COIL wiring examples with the same and with different phases

Attaching MAXinBOX FANCOIL 4CH2P to DIN rail:



Removing MAXinBOX FANCOIL 4CH2P from DIN rail:



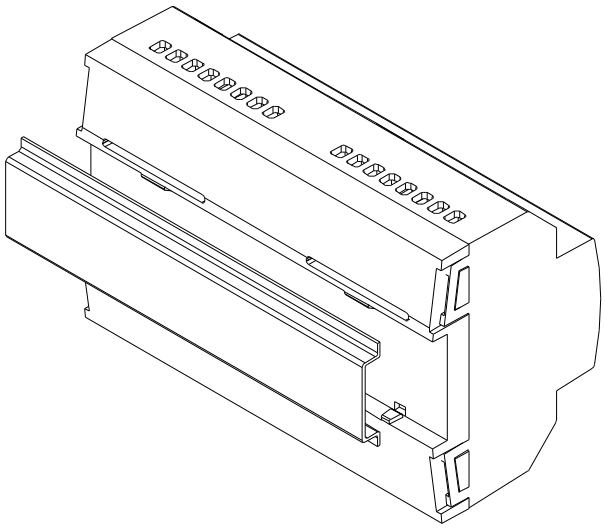


Figure 3. **MAXinBOX FANCOIL 4CH2P** *DIN-rail assembly*

SAFETY INSTRUCTIONS

- Installation should only be performed by qualified electricians following applicable regulations on preventing accidents, as required by law
- Do not connect Mains Voltage (230 V) 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 230V and the bus or the extension inputs.
- Once the device is installed, the output terminal should not be accessible.