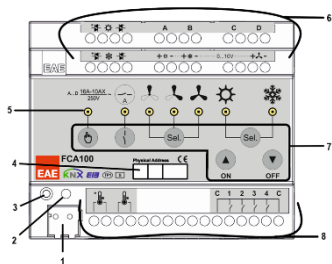


Device Overview



1. KNX Connection
2. Ph. Address Programming Button
3. Ph. Address Programming LED
4. Physical Address Label
5. Indicator LEDs
6. Triac and 0-10V Outputs
7. Selection Buttons
8. Temperature and Binary Inputs

Description

EAE KNX Fan Coil Actuator FCA100 is designed to work with 2-pipe or 4-pipe Fan coil systems. The device can be operated manually via push buttons. It can be programmed via ETS4 or above. Fan Coil Actuator has;

- Triac controlled Valve Output
- Relay controlled Fan Output
- 0-10V controlled Valve Output
- 0-10V controlled Fan Output
- Auxiliary Output
- Temperature Input
- Binary Input

Technical Data

Type of protection	IP 20	EN 60 529
Safety class	II	EN 61 140
Power supply	- Voltage	21V... 30V DC, SELV
	- Current consumption	≤ 10 mA
External supply	-	-
Connections	- Screw terminals	0,5...3,31 mm ² solid and stranded wire 0,5...3,31 mm ² stranded wire with ferrule
	- Max tightening torque	0.5 Nm
	- KNX	Bus connect terminal
Outputs	- Count	11 outputs
	- Non-floating	Yes
Triac	- Rated Voltage	250 V AC; 50/60 Hz
	- Rated Current	0.5 A
	- Short-Circuit Protection	Yes
	- Switching voltage	250 V AC; 50/60 Hz
Relay	- Switching current 250 V AC	16A / AC 1
	- Switching current 250 V AC, capacitive load	16A (200µF)
	- Maximum switching power	4000 VA
	- Mechanical life	> 1 x 10 ⁶
0-10 V	- Current Limit	1.4 mA
	- Signal	0...10V DC
	- Source/Sink	Source
Inputs	- Number	6 Inputs
	- Scanning Voltage (for binary input)	5 V pulsed
Generic Input	- Current (for binary input)	1 mA
	- Cable length	< 300 m
	- Sensor Type	NTC
Installation	- 35mm mounting rail	EN 60 715
	- LED (red) and prg. Button	→ For physical address
Operating elements	- Manual Button	→ Switching to manual mode
	- Sel. Buttons	→ Fan speed and Heat/Cool change
	- ON / OFF Buttons	→ Switching Valve ON / OFF
	- Switch Button	→ Auxiliary Output Control
	- LED (red) and prg. Button	→ For physical address
Temp. Range	- Ambient	-5° C + 45° C
	- Storage	-25° C + 55° C
Humidity	- max. air humidity	85 % no moisture condensation
	- Dimensions	66 x W x 90mm
Weight	Width W in mm	108 mm
	Width W in units	6 modules
Box	Plastic, polycarbonate, color grey	
CE	In accordance with the EMC guideline and low voltage	
Application program	Communications objects	Number of addresses(max)
	44	255

Operation and Display

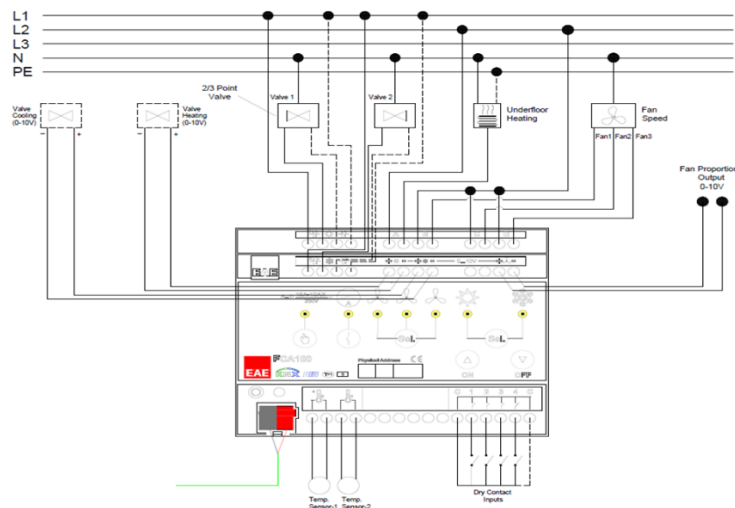
-Programming LED

Red LED lights up after the programming button is pressed.

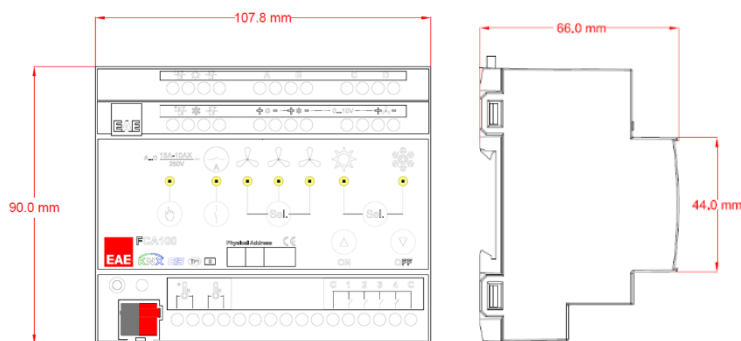
-Indicator LEDs

Yellow LED lights are indicating the manual mode, auxiliary, fan speed and control mode status.

Connection Example



Scale Drawings



Commissioning

Determination of the physical address and setting of parameters are actualized with Engineering Tool Software (ETS4 or higher). ".knxprod" file must be imported to the ETS. Please check website for latest ".knxprod" file.

www.eaetechnology.com

i A detailed information about parameter configuration can be found in Product Manual of device.

! Installation and commissioning of device may only be implemented by trained electricians. The relevant standards, directives, regulations and instructions must be observed when planning and implementing the electrical installation.

-When connecting the device make sure that the device is isolated!
-Protect the device against moisture, dirt and damage during transport, storage and operation!

-Do not operate the device out of the specified technical data which is stated.
-The device may only be operated in closed enclosures (Distribution boards etc.)

Cleaning

If device becomes dirty, only a dry cloth can be used for cleaning. It is not suitable to use wet cloths, caustics and solvents.