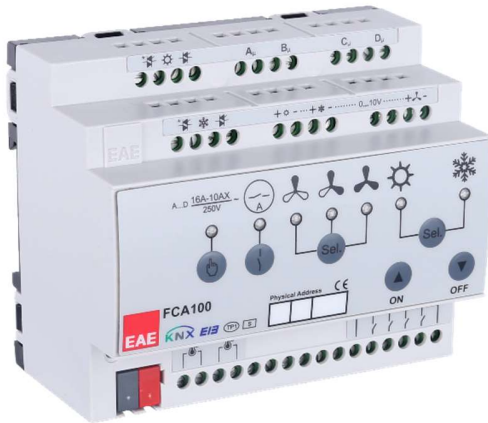


General Description



- Fan Coil Actuator FCA100 is designed as all in one product for different way of Fan coil and Valve control together.
- Fan Coil Actuator FCA100 covers HVAC systems of the electrical installation of room applications and offers following functions in one product.
 - ✓ Controlling fan coils (2 & 3-point valve)
 - ✓ Additional Heat or Cooling
 - ✓ Switching auxiliary load
 - ✓ Dry contact inputs
 - ✓ Temperature inputs
- FCA100 has 11 outputs, 6 inputs inside. These outputs and inputs are using for:
 - Auxiliary Output x1 (Relay 16A)
 - Fan Speed Output x3 (Relay 16A)
 - Fan Speed Output x1 (0-10 V Signal)
 - Valve Control Output x4 (Triac 0.5A)
 - Valve Control Output x2 (0-10 V Signal)
 - Dry Contact Input x4
 - NTC Sensor Input x2
- Suitable for switching resistive, capacitive and inductive loads as well as fluorescent lamp loads according to EN 60 669.
 - Any kind of load (up to 16A per channel)
- Manual control is possible for each channel through the built-in button panel.
- 220V auxiliary power is not required.
- Device has 4 independent input channels. Input channel operates as well as universal interface with following functions,
 - Switch / push button sensor
 - Dew-point sensor
 - Window sensor
- Device has 2 temperature input channels separately. Temperature Inputs can be used with following functions,
 - Single
 - Weighted (Multi temp sensor)

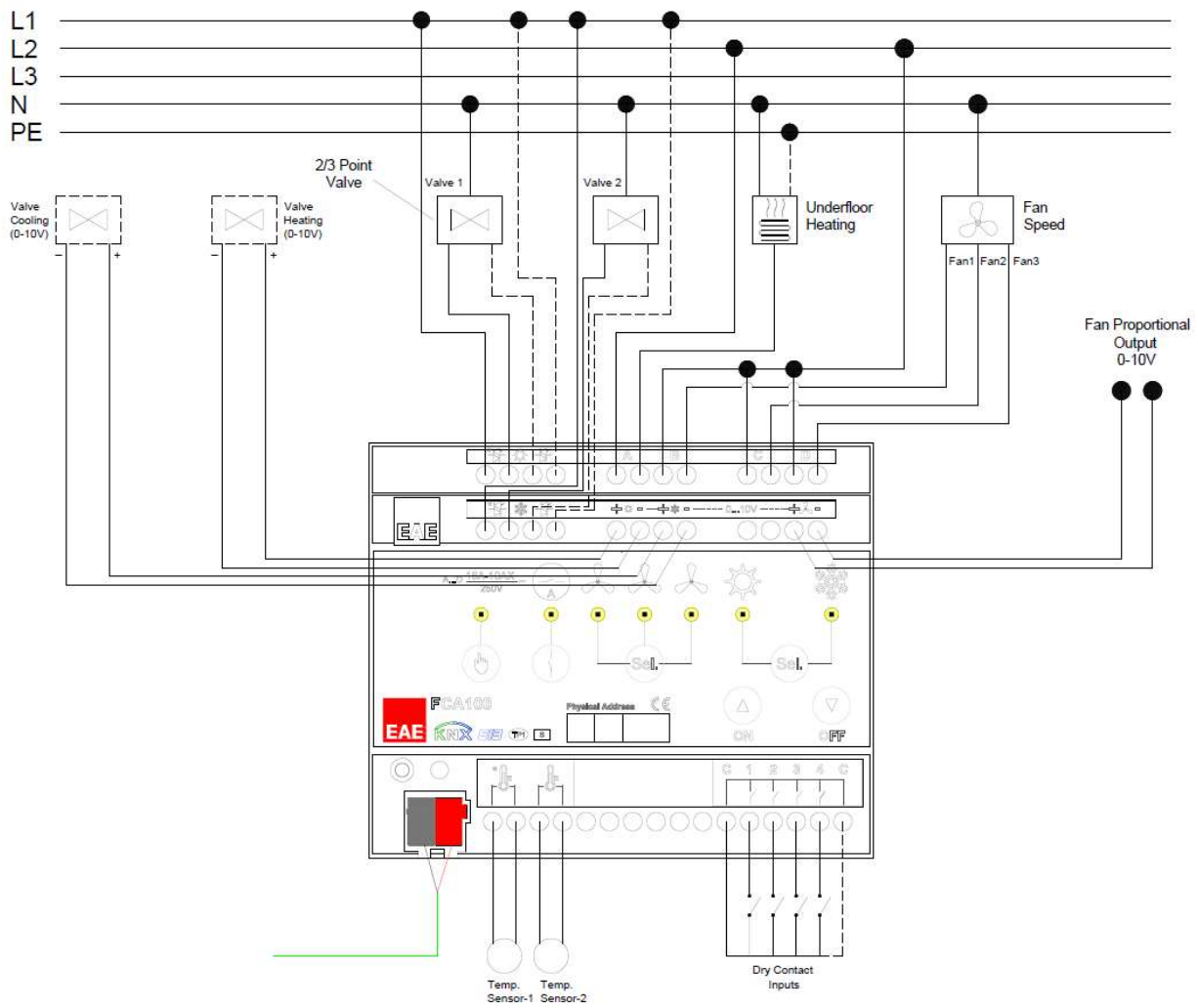
Technical Data

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	- Number	11 output	
Triac	- Non-floating	Yes	4 for Heating/Cooling Valve
	- Rated Voltage	250 V AC; 50/60 Hz	
	- Rated Current	0.5 A	
	- Short-Circuit Protection	Yes	
Relay	- Switching voltage	250 V AC; 50/60 Hz	1 Aux + 3 Fan Speed
	- Switching current 250 V AC	16A / AC 1	
	- Switching current 250 V AC, capacitive loads	16A (200μF)	
	- Maximum switching power	4000 VA	
	- Mechanical life	> 1 x 10 ⁶	
0-10 V	- Current Limit	1.40mA	1 Fan Speed + 2 Valve
	- Signal	0...10V DC	
	- Source/Sink	Source	
Inputs	- Number	6 Inputs	
Generic Input	- Scanning Voltage (for binary input)	5 V pulsed	4 Input
	- Current (for binary input)	1 mA	
	- Cable length	< 300 m	
Temp. Input	- Sensor Type	NTC	2 Input
Installation	- 35mm mounting rail	EN 60 715	
Operating elements	- LED (red) and prg. button ----->	For physical address	
	- Manual Button ----->	Switching to manual mode	
	- Sel. Buttons ----->	Fan speed and HVAC mode change	
	- ON / OFF Buttons ----->	Switching Valve ON / OFF	
	- Switch Button ----->	Auxiliary Output Control	
Temperature 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	
	Width W in mm	108 mm	
	Width W in units (18 mm modules)	6 modules	
Weight	0,395 kg		
Box	Plastic, polycarbonate, colour grey		
CE	In accordance with the EMC guideline and low voltage		
Application program	Communications objects	Number of addresses(max)	Number of assignments(max)
	41	255	255

Connection Example



Connection Diagram 1

Scale Drawings

