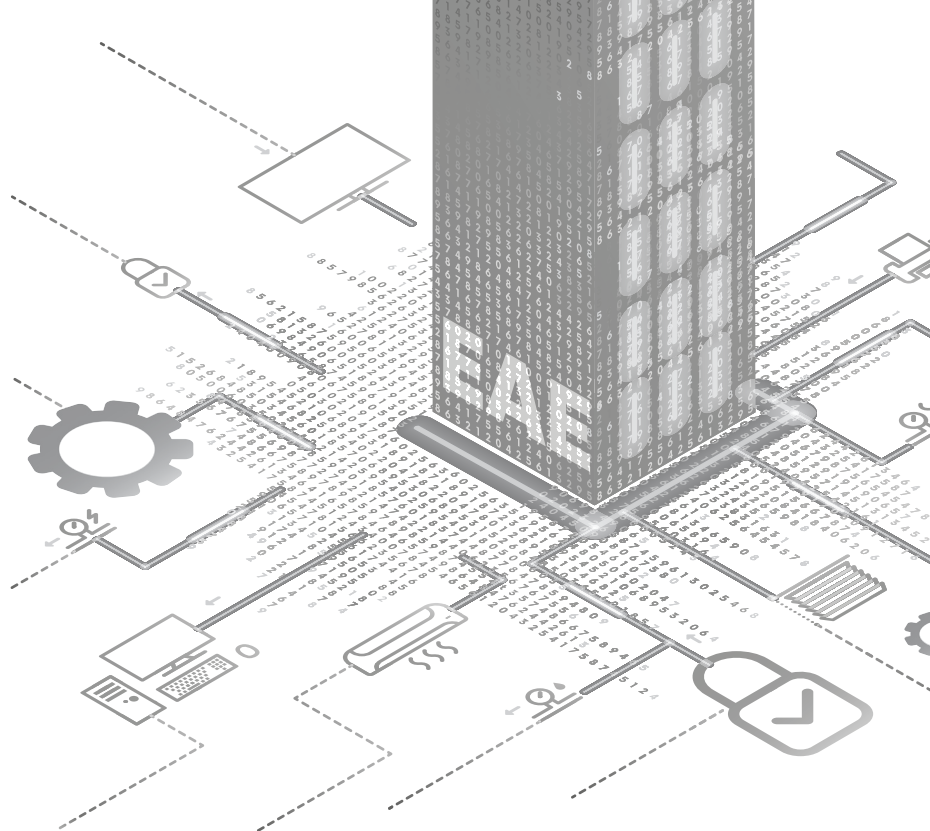
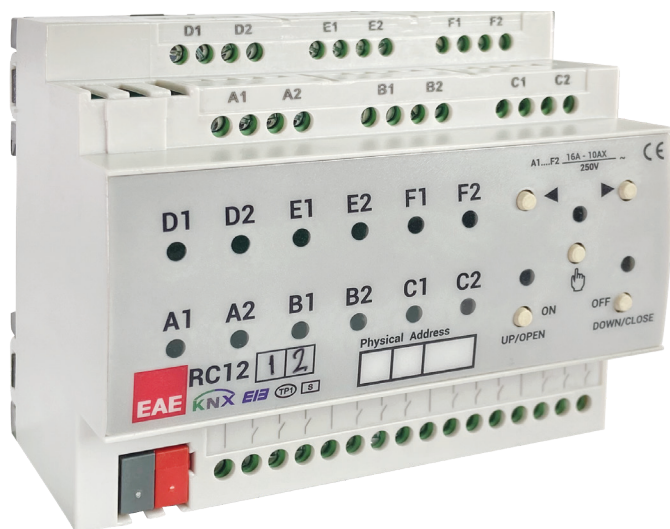




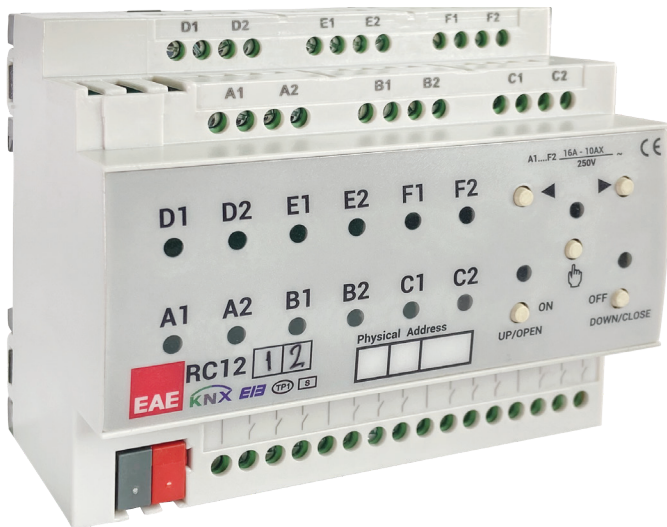
Datasheet Mini RCXXYY

EAE KNX Room Control Unit

All you need is EAE



General Description



Available versions of EAE RCU Series:

RCU1212	12 Output – 12 Input
RCU1200	12 Output – No Input
RCU0808	8 Output – 8 Input
RCU0800	8 Output – No Input

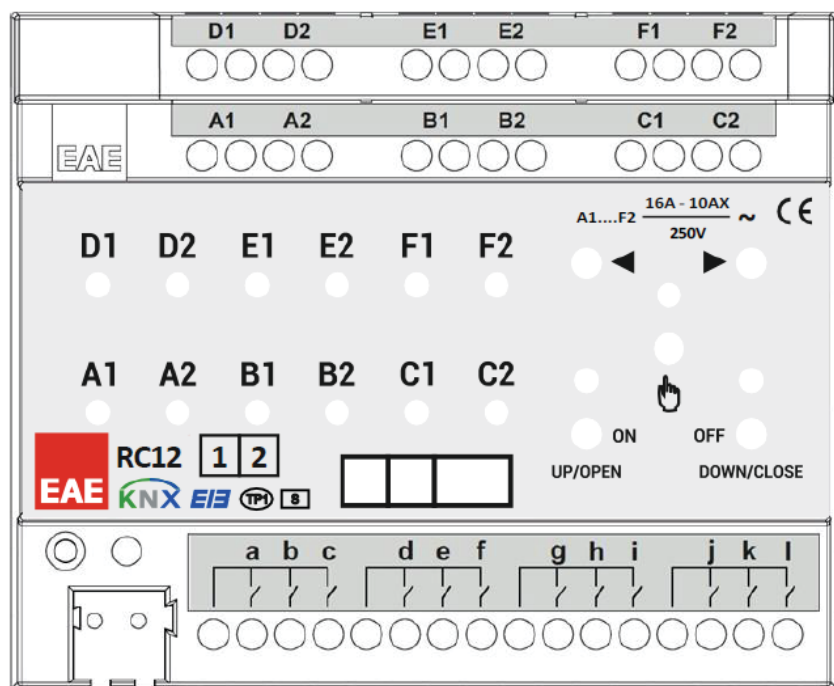
Note: RCUXYY where XX denotes the number of outputs and YY number of inputs.
Input and Output numbers are as in the table.

- Room Control Unit has multiple 16A relay outputs. These outputs are grouped as 5/4/3/2 independent output channel groups for XX = 20/16/12/8 respectively. Each channel group can be configured to have different modes of operation as follows;
 - Switching output x4
 - AC Blind x2
 - DC Blind x1
 - On/Off (2-point) valve x2
 - 3-point valve x2
- Room Control Unit has optional multiple independent input channels. Each input is galvanically isolated. Input channels operate as universal interface to KNX bus with following functions;
 - Switch / push button input
 - Dimmer control
 - Control of shutter/blinds
 - Value sending
 - Scene control
 - Counter for count pulse
- Room Control Unit RCU Series are designed as an all in one product for different room layouts such as apartments, hotel rooms, hospitals and residences.
- Room Control Unit covers all requirements of the electrical installation of room applications and offers following functions in a one product.
 - Switching lighting control
 - Switching load control
 - Controlling AC/DC blinds
 - Controlling fan coils (On/Off & 3-point valve)
 - Dry contact inputs
- Suitable for switching resistive, capacitive and inductive loads as well as fluorescent lamp loads according to EN 60 669. As a switch output device provides following function list,
 - Staircase
 - External logic
 - Internal logic
 - Priority
 - Threshold
 - Operating hour
 - Sweep
- Manual control is possible for each channel through the built-in button panel.
- 220V auxiliary power is NOT required.

Technical Data RCU Series

Type of protection	IP 20	EN 60529	
Safety class	II	EN 61140	
Power supply :	- Voltage	21V... 30V DC, SELV	
	- Current consumption	≤ 15 mA	
External supply	-	-	
Connections	- Screw terminals	0,05...4 mm solid and stranded wire 0,05...2,5 mm stranded wire with ferrule	
	- Max tightening torque	0.8 Nm	
	- KNX	Bus connect terminal	
Output	Quantity	12 output (RCU1212, RCU1200) 8 output (RCU0808, RCU0800)	
	Switching ratings	16A 250VAC / 6x103 OPS (Resistive) 3500W 277VAC / 1.2x104 OPS (Incandescent lamp)	
	Max. Inrush current	492A/1.5ms - 165A/20ms	
	Maximum switching power	4000VA	
	Mechanical life	2 x 106	
Type of contact	potential-free, bistable		
Input	Quantity	12 binary inputs 8 binary inputs	
	Scanning voltage	32V pulsed	
	Current	0.1 mA	
	Cable length	<300 m	
Installation	35 mm mounting rail	EN 60715	
Operating elements	LED (red) and button	For physical address	
Temperature range	Operation	-5° C + 45° C	
	Storage	-25° C + 55° C	
Dimensions	H x W x D	90 mm x W x 66 mm	90 mm x W x 66
	Width W (mm)	180 mm	108 mm
	Width W (unit)	10x18 mm modules	6x18 mm modules
Weight	0.37 kg		
Box	Plastic, polycarbonate, grey		
CE	In accordance with the EMC guideline and low voltage		

Grouping Topology Visual



	Lighting	AC Blind	DC Blind	Fan Coil Fan Control	Valve Control
RCU12YY	A1A2-B1B2... F1F2	A-B-C-D-E-F	AB - CD - EF	AB - CD - EF	AB - CD - EF
RCU08YY	A1A2-B1B2... D1D2	A-B-C-D	AB - CD	AB - CD	AB - CD

For lighting and AC Blinds;

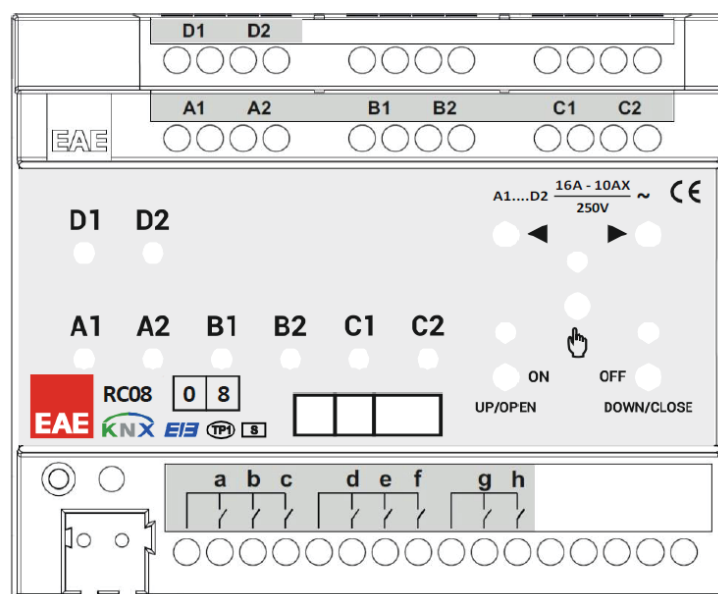
- Channels can be used individually, in example: A1 & A2 can be used as a switch for lighting and B1 & B2 can be used as an AC Blind etc.

For DC Blind, Fan Coil Fan Control and Valve Control;

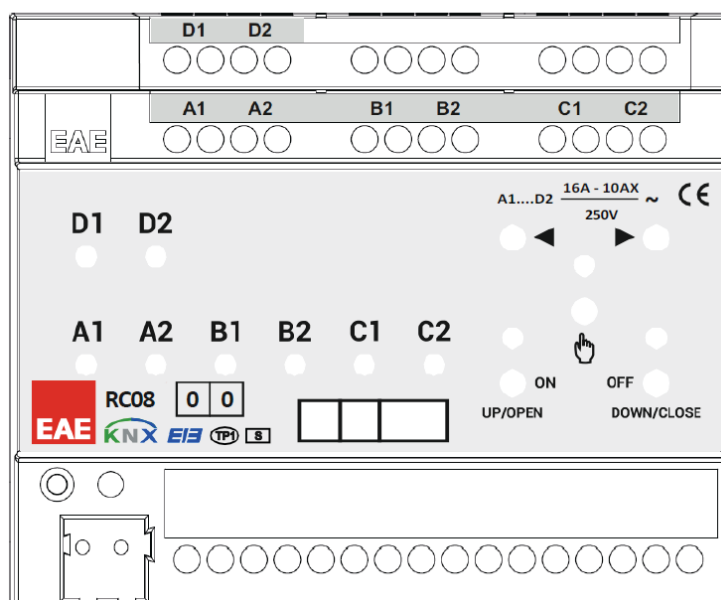
- Subsequent channels are linked together, in example: G1G2 and H1H2 have to be used together for DC Blind etc.

Scale Drawings

RC0808

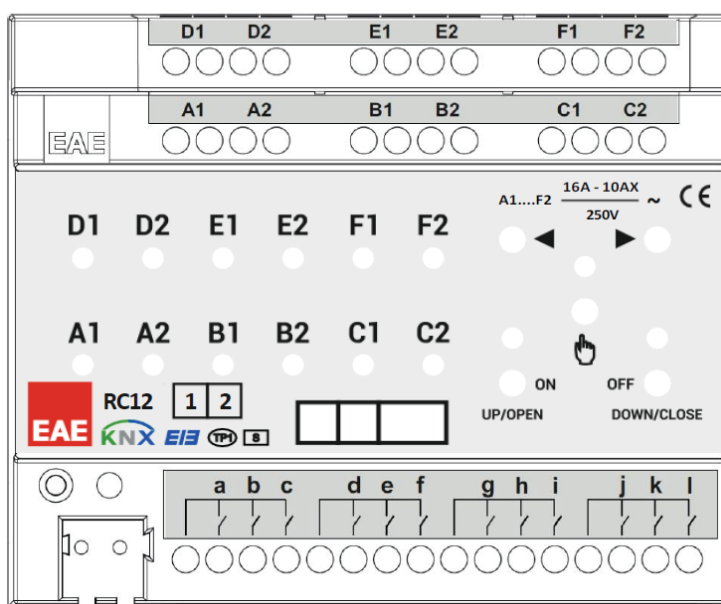


RC0800

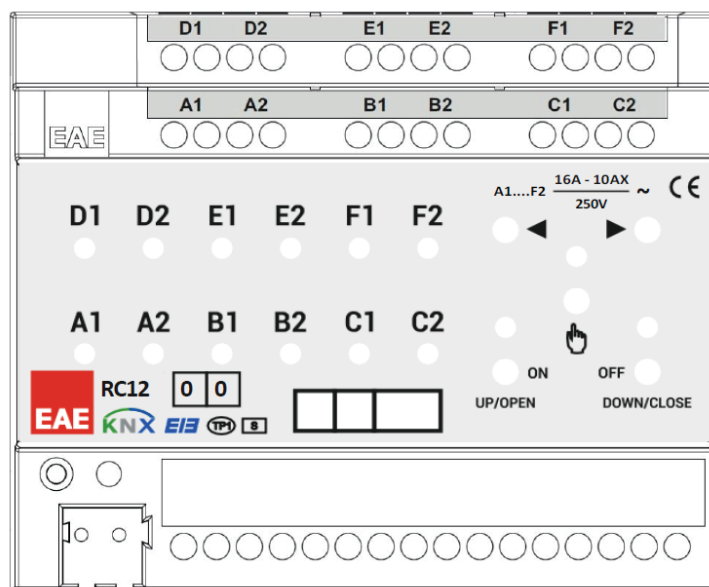


Scale Drawings

RC1212

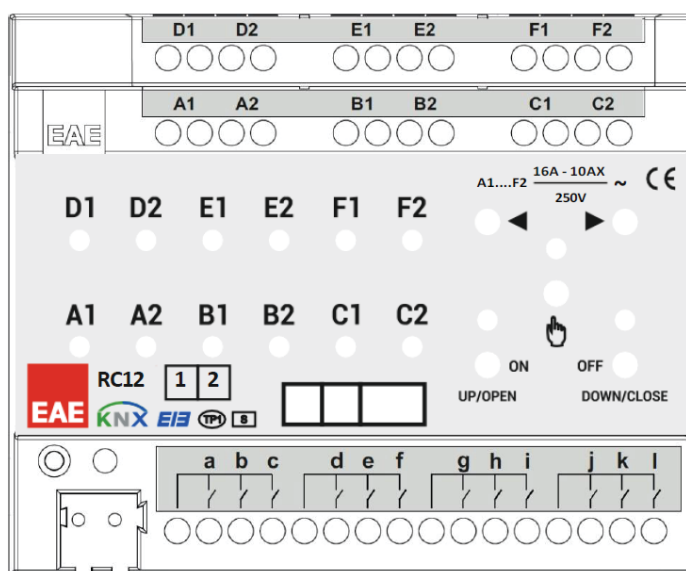


RC1200

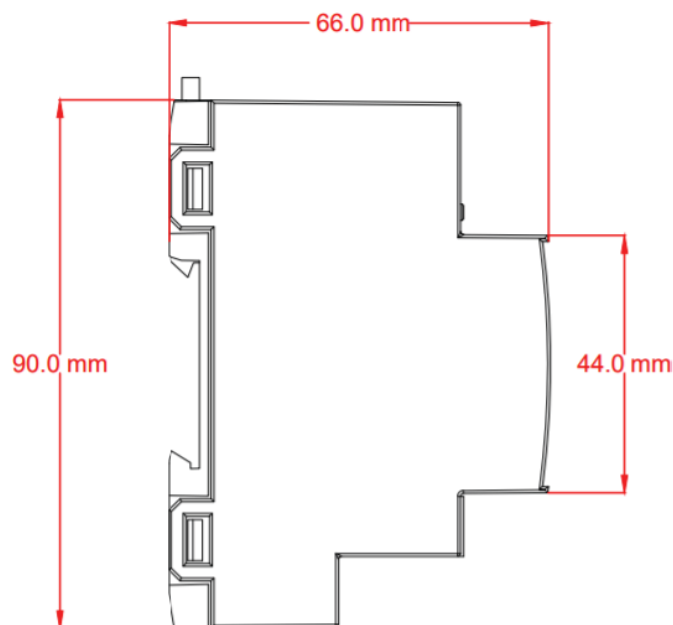


Scale Dimensions RCXXYY

<----- 108 mm ----->



Front View



Side View