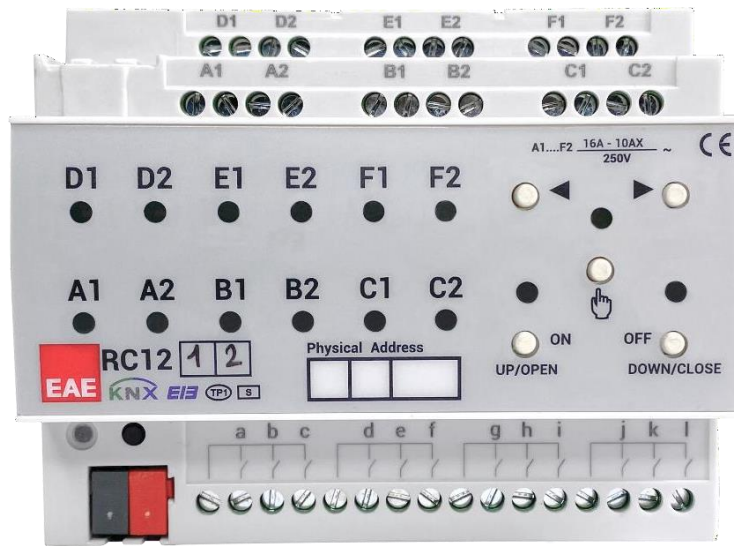


## General Description



Available versions of EAE RC Series:

RC1212	12 Output – 12 Input
RC1200	12 Output – No Input
RC0808	8 Output – 8 Input
RC0800	8 Output – No Input

**Note:** RCXXYY 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 RC 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.

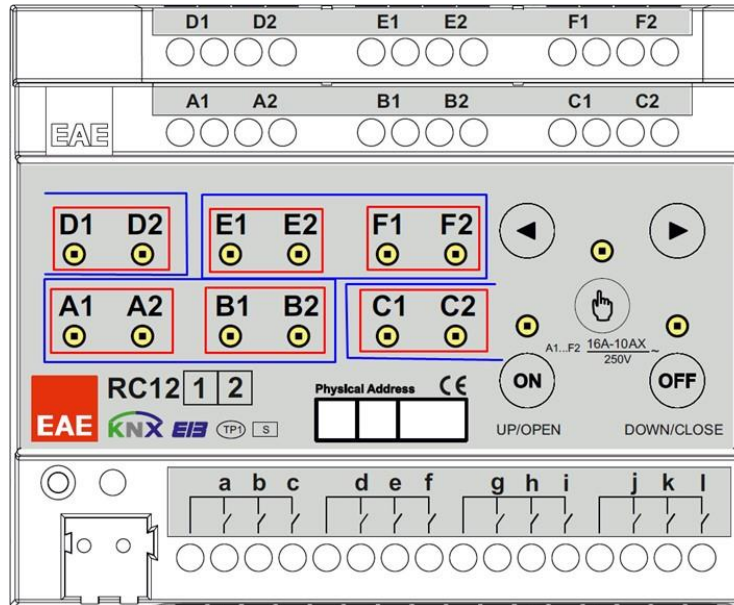
- 220V auxiliary power is NOT required.

## Technical Data

<b>Type of protection</b>	IP 20	EN 60 529
<b>Safety class</b>	II	EN 61 140
<b>Power supply :</b>	- Voltage	21V... 30V DC, SELV
	- Current consumption	<15 mA
<b>External supply</b>	-	-
<b>Connections</b>	- Screw terminals	0,05...4 mm solid and stranded wire 0,05...2,25 mm stranded wire with ferrule
	-Max tightening torque	0.8 Nm
<b>Output</b>	- KNX	Bus connect terminal
	- Number	XX output
	- Switching ratings	16A 250 VAC/6x 10 <sup>3</sup> OPS <sub>(Resistive)</sub> 3500W 277VAC/1.2x10 <sup>4</sup> OPS <sub>(Incandescent lamp)</sub>
	- Max. Inrush current	492A/1.5ms-165A/20ms
	- Max. switching power	4000VA
	- Mechanical life	2 x 10 <sup>6</sup>
<b>Type of contact</b>	- Potential-free, bistable	
<b>Input</b>	- Number	YY binary inputs
	- Scanning voltage	32 V pulsed
	- Current	0.1 mA
	- Cable length	< 300 m
<b>Installation</b>	- 35mm mounting rail	EN 60 715
<b>Operating elements</b>	- LED (red) and button	For physical address
<b>Temperature range</b>	- Operation	-5° C + 45° C
	- Storage	-25° C + 55° C
<b>Dimensions</b>		66 x W x 90mm
	Width W in mm	180 mm
	Width W in units (18 mm modules)	10x18 modules
<b>Weight</b>		0.45 kg
<b>Box</b>		Plastic, polycarbonate, colour grey
<b>CE</b>		In accordance with the EMC guideline and low voltage

**NOTE: Device factory default physical address is "15.15.255".**

Grouping Topology Visual



	Lighting	AC Blind	DC Blind	Fan Coil Fan Control	Valve Control
RC12YY	A1A2-B1B2... F1F2	A-B-C-D-E- F	AB - CD - EF	AB - CD - EF	AB - CD - EF
RC08YY	A1A2-B1B2... D1D2	A-B-C-D	AB - CD	AB - CD	AB - CD

**For lighting and AC Blinds;**

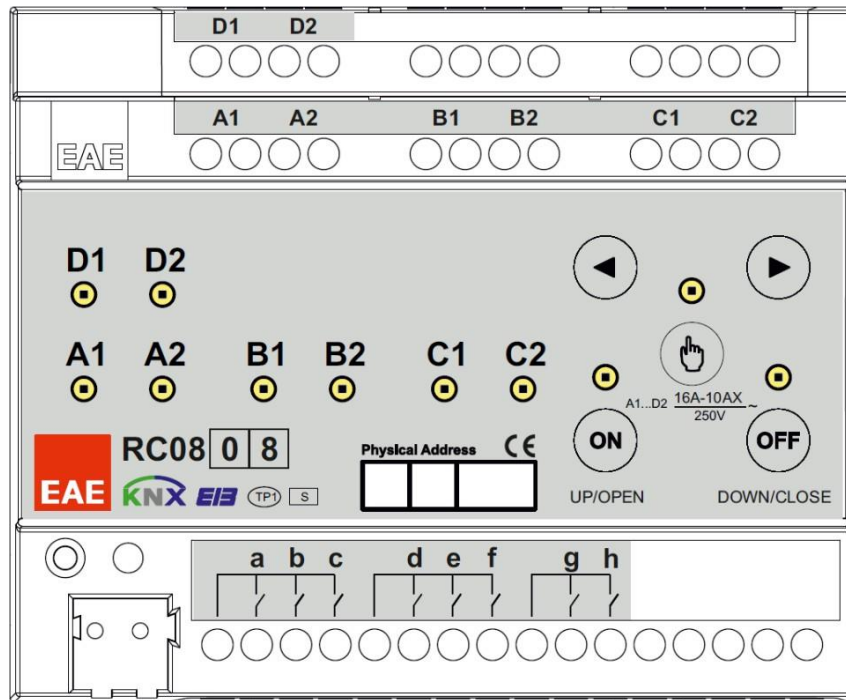
- Channels can be used individually, in example: A1 & A2 can be used as a switch for lighting and B1 & B2 can be used as an AC Blind etc. as shown with **red coloured** drawings in visual above.

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

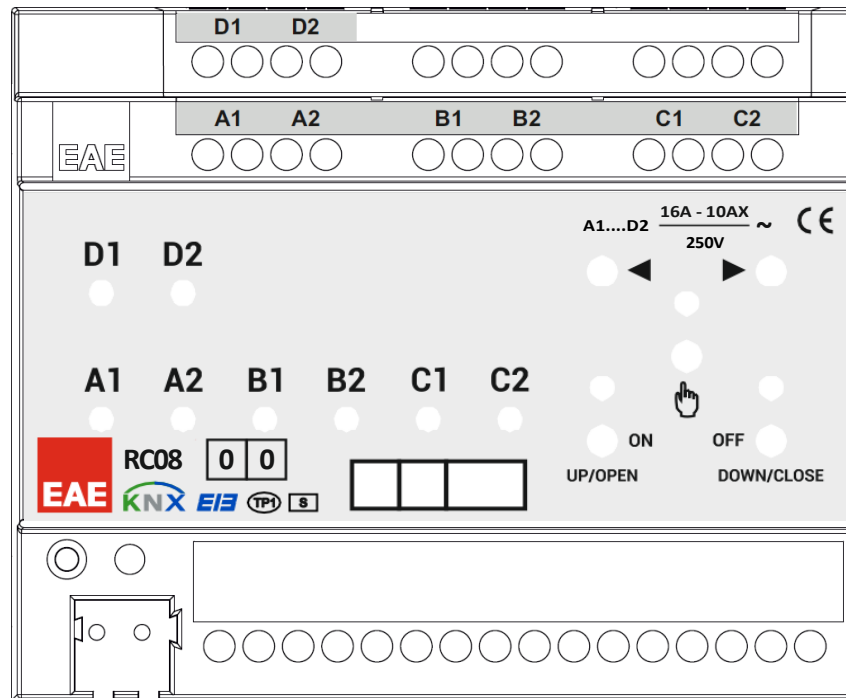
- Subsequent channels are linked together, in example: E1E2 and F1F2 have to be used together for DC Blind etc. as shown with **blue coloured** drawings in visual above.

Scale Drawings

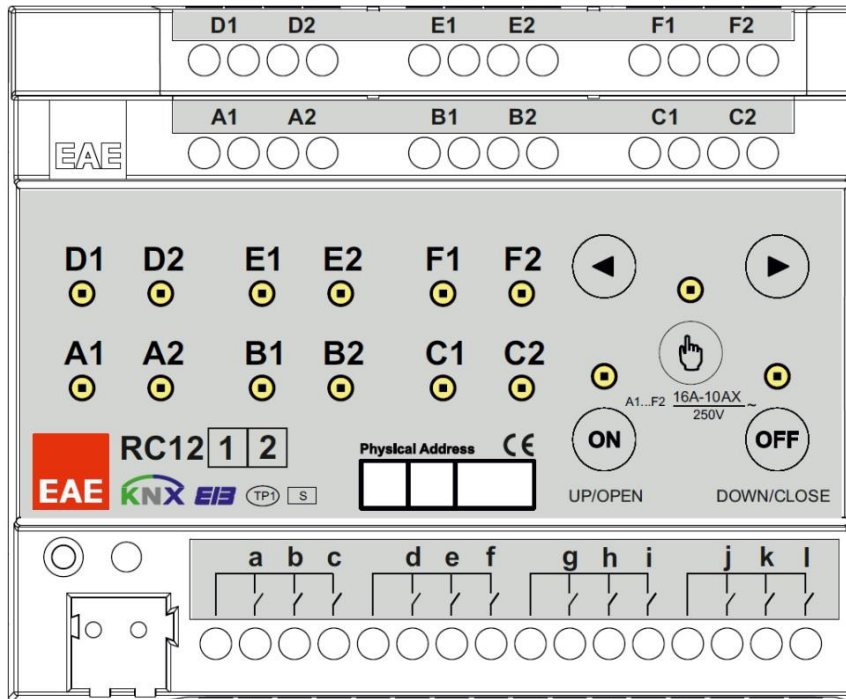
RC0808



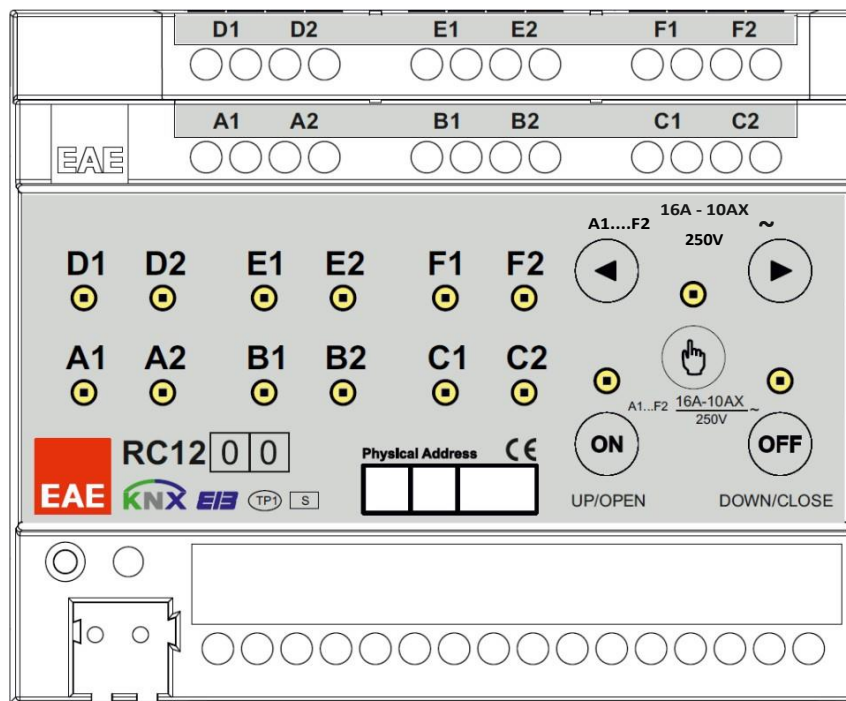
RC0800



RC1212

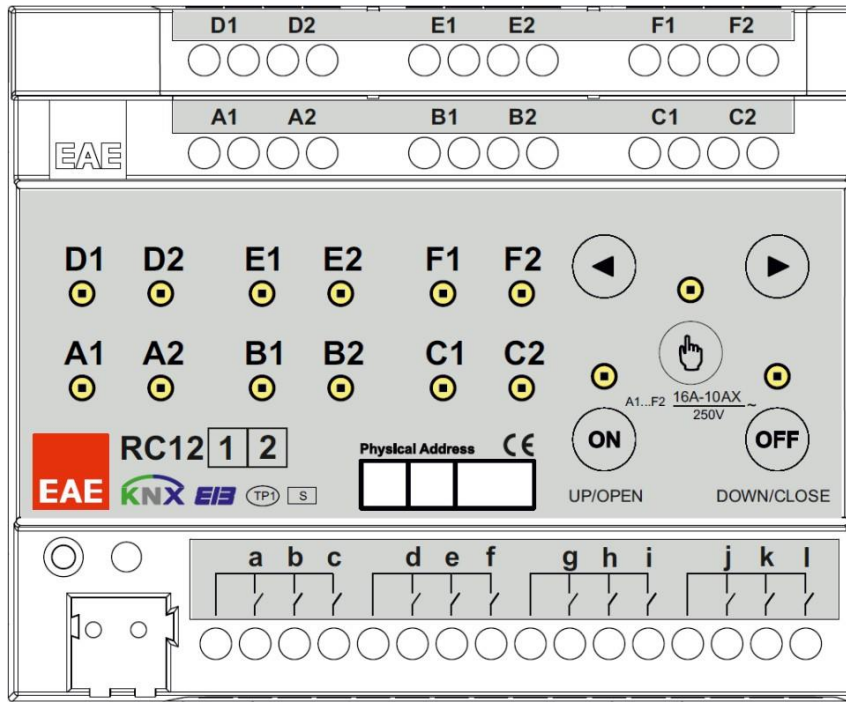


RC1200

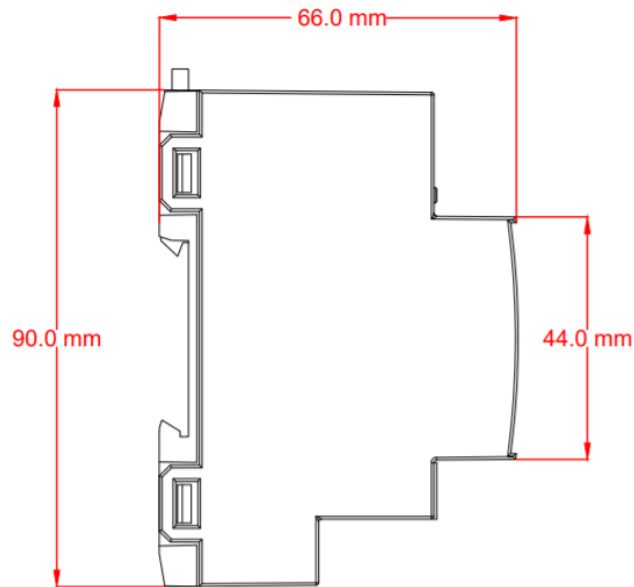


Scale Dimensions

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



Front View



Side View