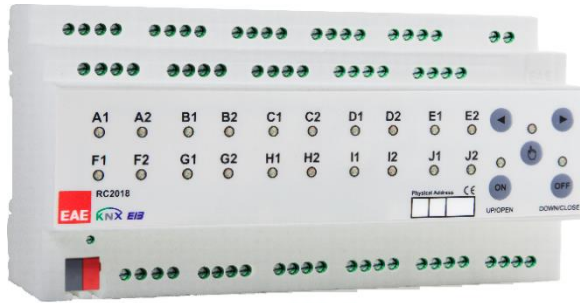


## General Description



Available versions of EAE RCU Series:

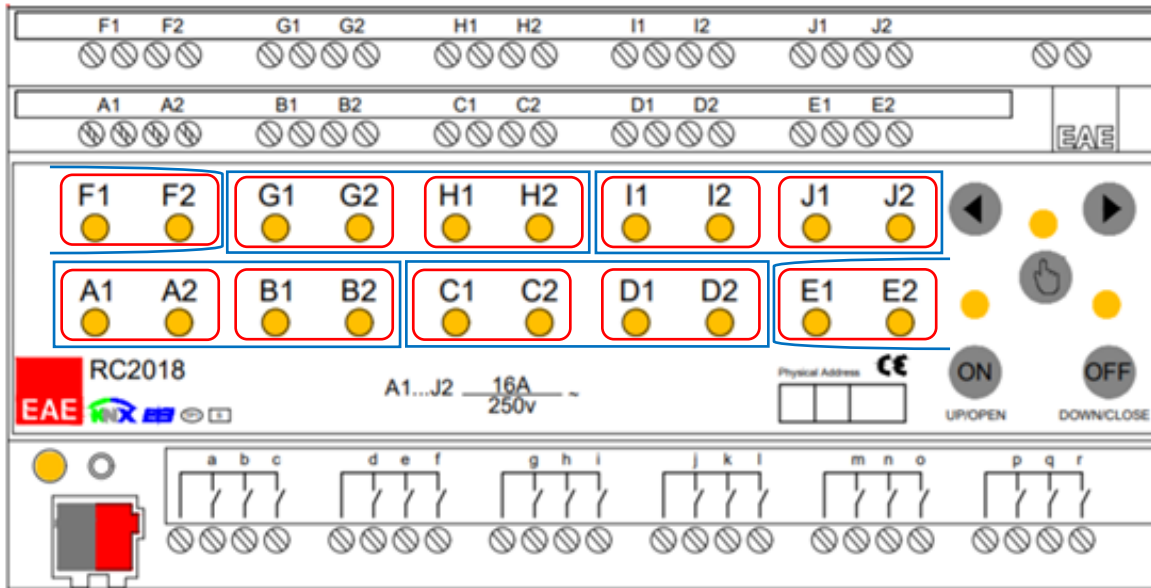
RCU2018	RCU2000
RCU2016	RCU2000
RCU1212	RCU1200
RCU0808	RCU0800

Note: RCUXYY where XX denotes the number of outputs and YY number of inputs.

- 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
  - ✓ Switching loads
  - ✓ Controlling AC/DC blinds
  - ✓ Controlling fan coils (2 & 3 point valve)
  - ✓ Dry contact inputs
- RCUXYY has XXx16A relay outputs. These outputs are grouped as 5/4/3/2 independent output channels for XX = 20/16/12/8 respectively. Each channel can be configured to have different modes of operation as follows,
  - Switching output x4
  - AC Blind x2
  - DC Blind x1
  - 2 Point valve x2
  - 3 point valve x2
- RCUXYY has YY independent input channels. Input channel operates as universal interface with following functions,
  - Switch / push button input
  - Dimmer control
  - Control of shutter/blinds
  - Value sending
  - Scene control
  - Counter for count pulse
- 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 RCUXYYY Series

<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	≤ 10 mA	
<b>External supply</b>	-	-	
<b>Connections</b>	- Screw terminals	0,5...3,31 mm <sup>2</sup> solid and stranded wire 0,5...3,31 mm <sup>2</sup> stranded wire with ferrule	
	- Max tightening torque	0.5 Nm	
	- KNX	Bus connect terminal	
<b>Output</b>	- Number	XX output	
	- Switching voltage	250 V AC; 50/60 Hz	
	- 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 <sup>6</sup>	
<b>Type of load</b>	- Incandescent lamp	4000 W	
	- Halogen lamp	4000 W	
	- Inductive loads, transformer	2000 W	
	- Electronic drivers	1500 W	
<b>Type of contact</b>	- Potential-free, bistable		
<b>Input</b>	- Number	YY binary inputs	
	- Scanning voltage	5 V pulsed	
	- Current	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>	- Ambient	-5° C + 45° C	
	- Storage	-25° C + 55° C	
<b>Humidity</b>	- max. air humidity	85 % no moisture condensation	
<b>Dimensions</b>		66 x W x 90mm	
	Width W in mm	180 mm	
	Width W in units (18 mm modules)	10 modules	
<b>Weight</b>	0,65 kg		
<b>Box</b>	Plastic, polycarbonate, colour grey		
<b>CE</b>	In accordance with the EMC guideline and low voltage		
<b>Application program</b>	Communications	Number of addresses(max)	Number of assignments(max)
	objects	255	255
	254		



Grouping Topology Visual

	Lighting	AC Blind	DC Blind	Fan Coil Fan Control	Valve Control
RCU20YY	A1A2-B1B2... J1J2	A-B-C-D-E- F-G-H-I-J	AB - CD - EF- GH - IJ	AB - CD - EF- GH - IJ	AB - CD - EF- GH - IJ
RCU16YY	A1A2-B1B2... H1H2	A-B-C-D-E- F-G-H	AB - CD - EF- GH	AB - CD - EF- GH	AB - CD - EF- GH
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;**

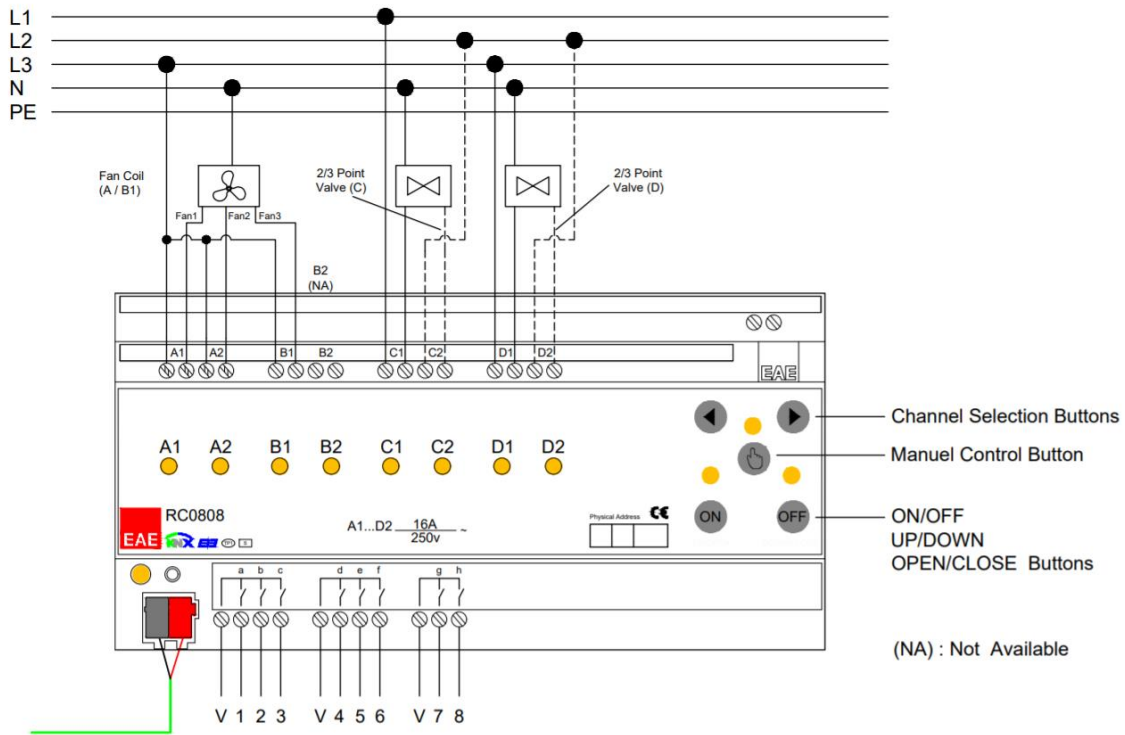
- channels can be used individually, in example: A1 & A2 can be used as a switch for lighting and B1 & B2 can be used as an AC Blind etc. **Red coloured** groups in above visual

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

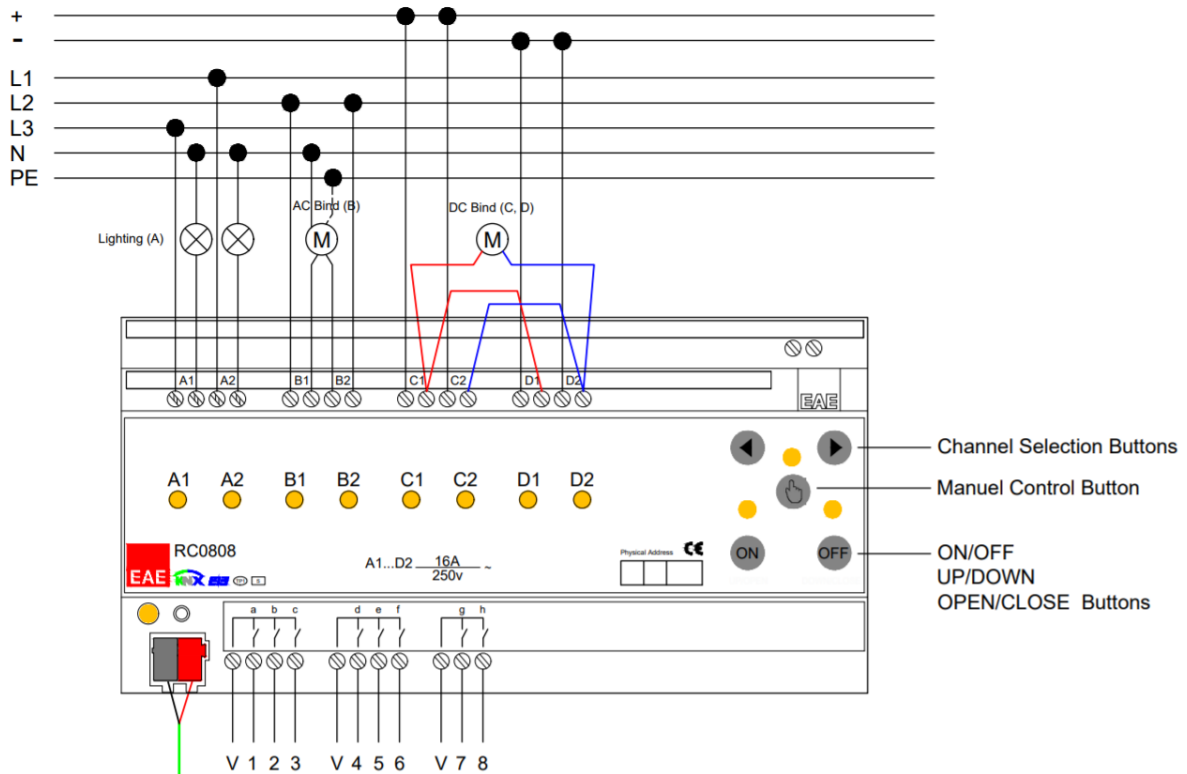
- subsequent channels are linked together, in example: G1G2 and H1H2 have to be used together for DC Blind etc. **Blue coloured** groups in above visual

**Connection Examples**

**RCU0808**

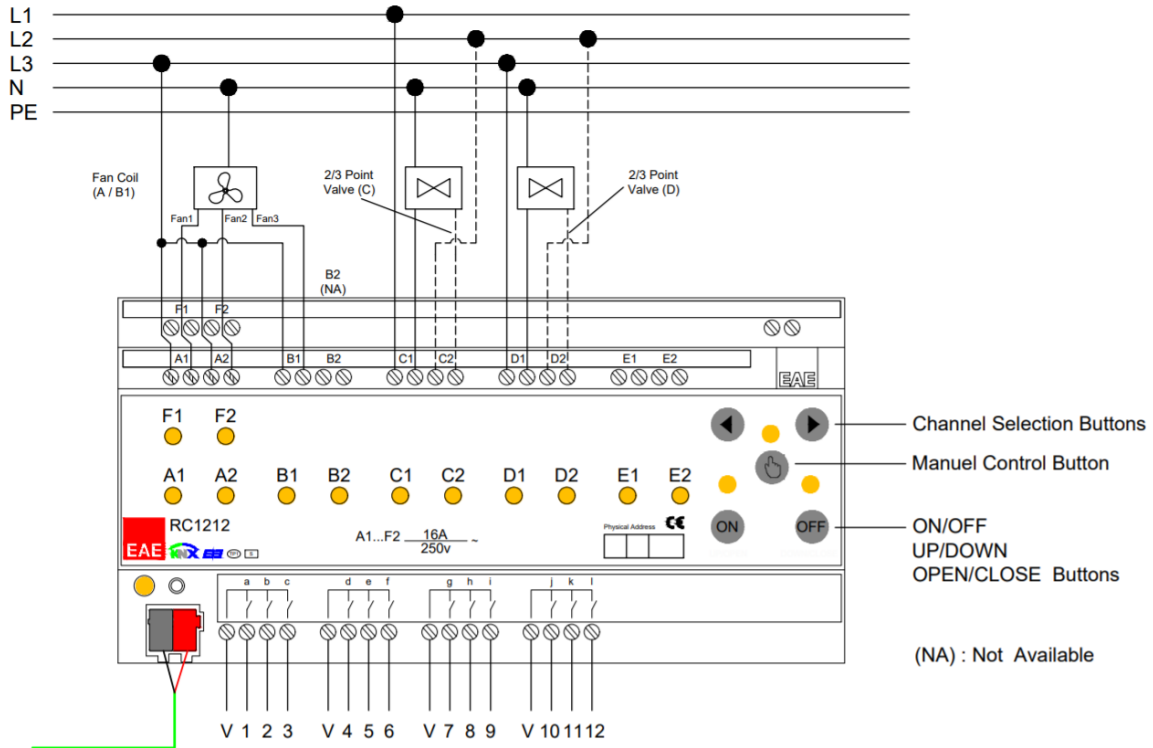


Connection Diagram 1

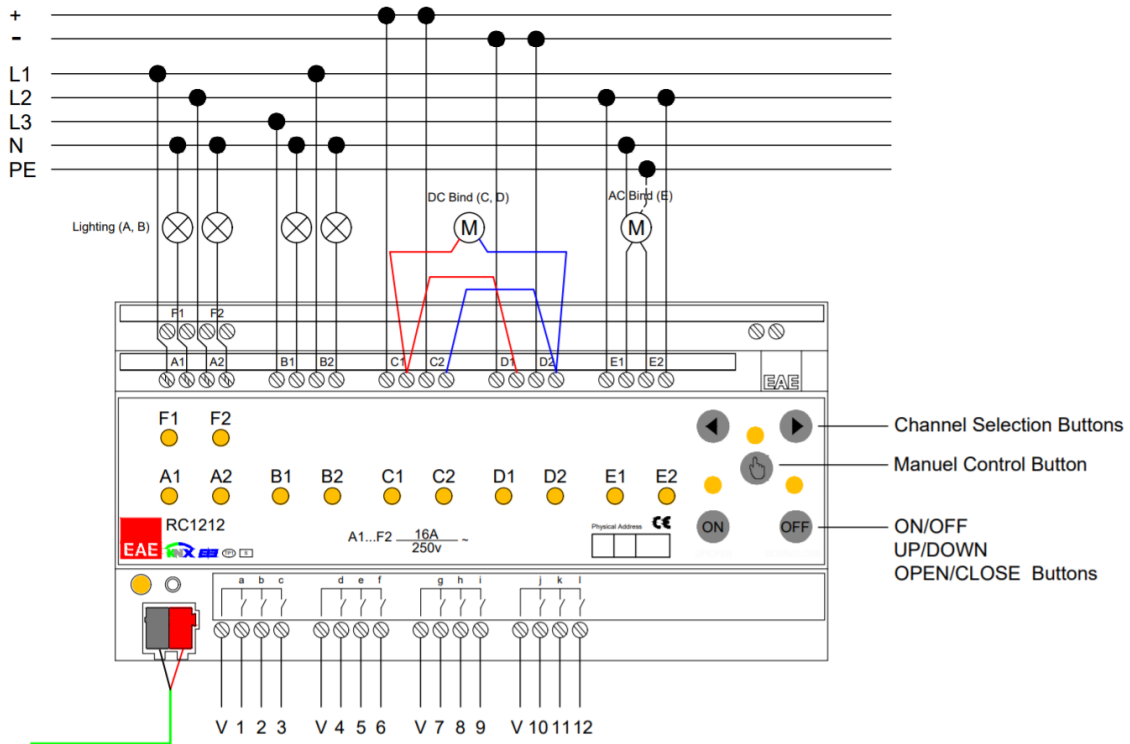


Connection Diagram 2

RCU1212

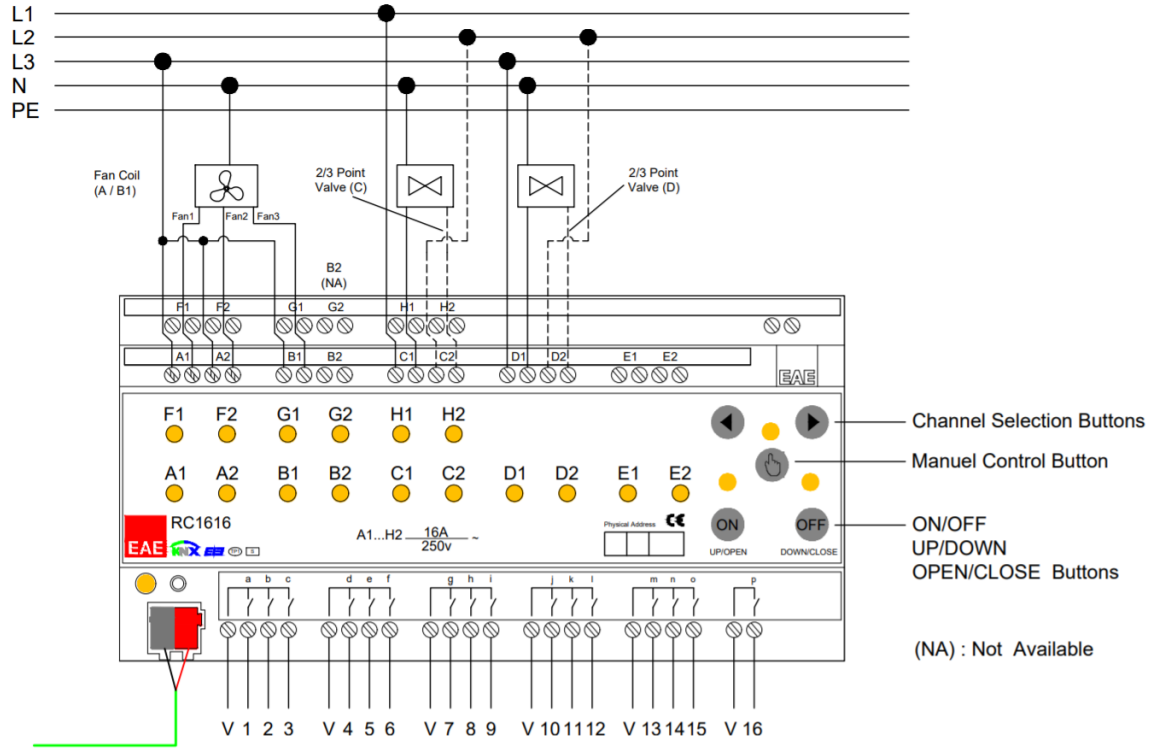


Connection Diagram 3

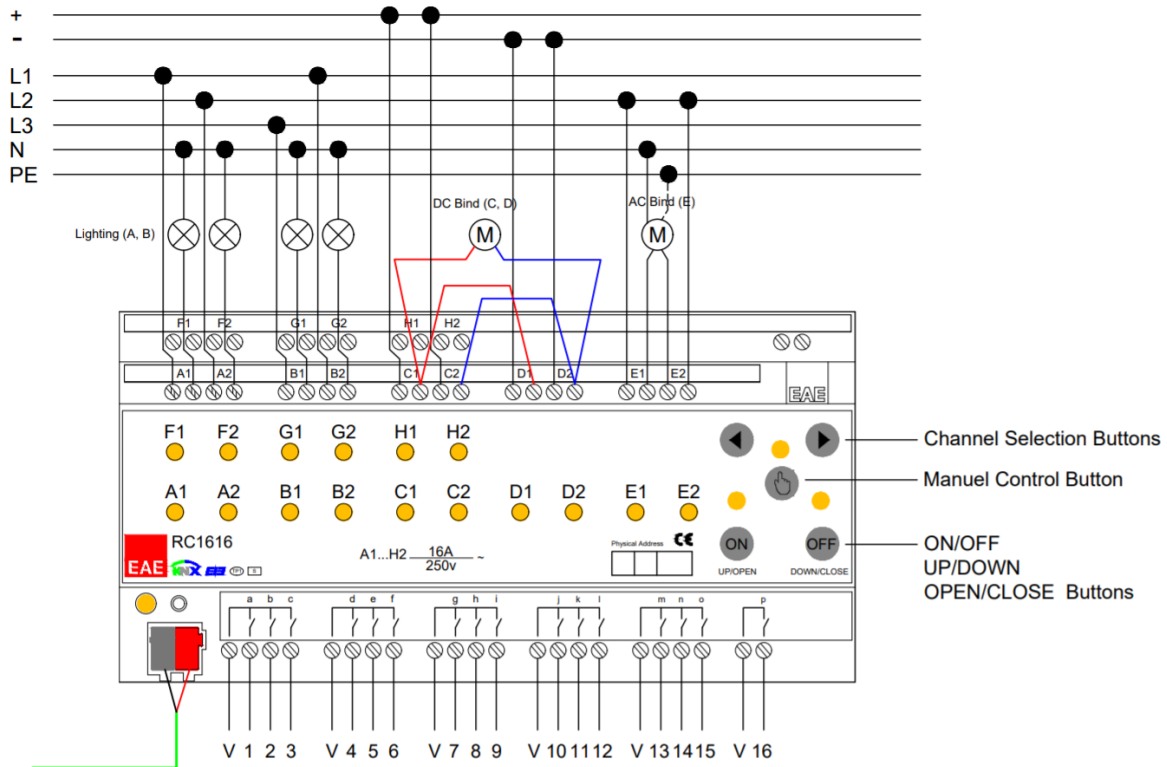


Connection Diagram 4

RCU1616

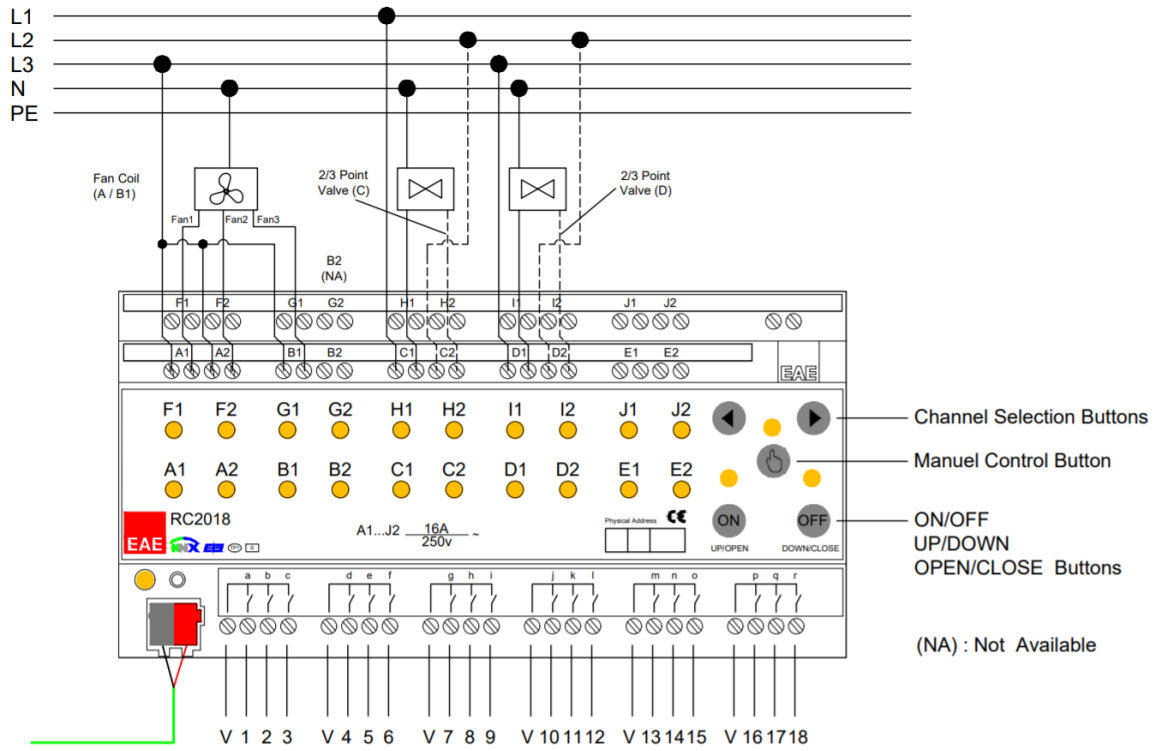


Connection Diagram 5

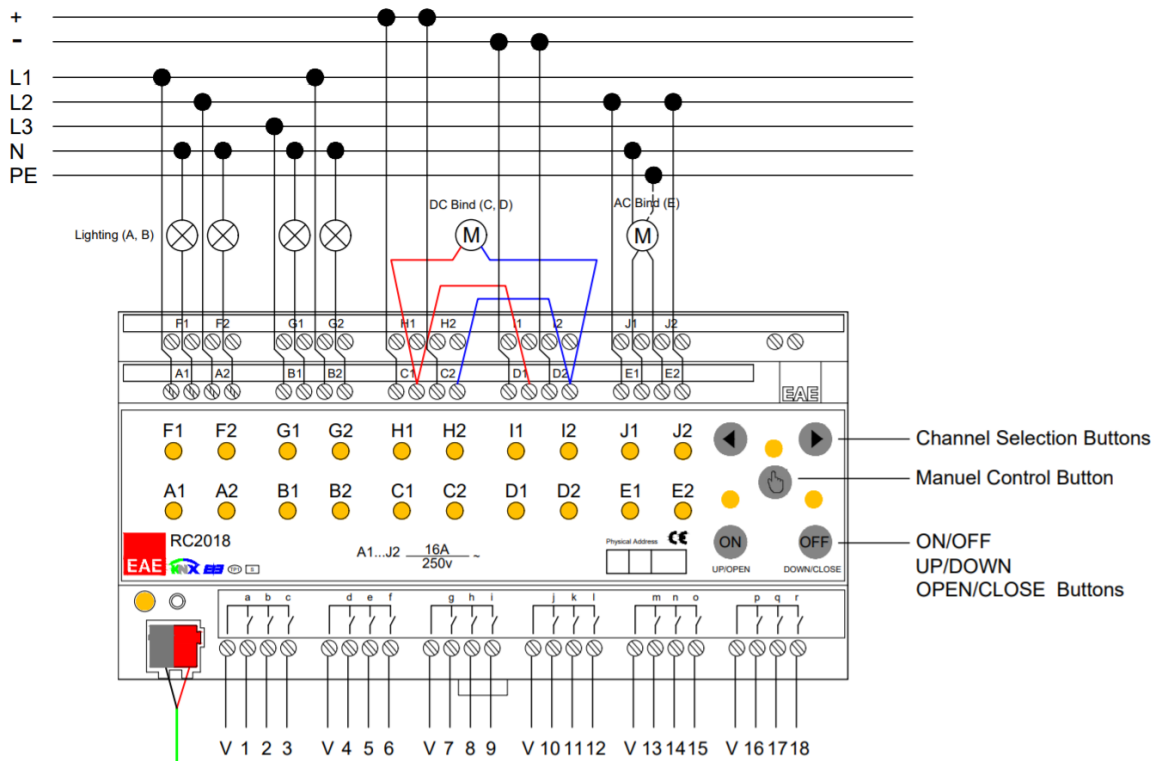


Connection Diagram 6

RCU2018



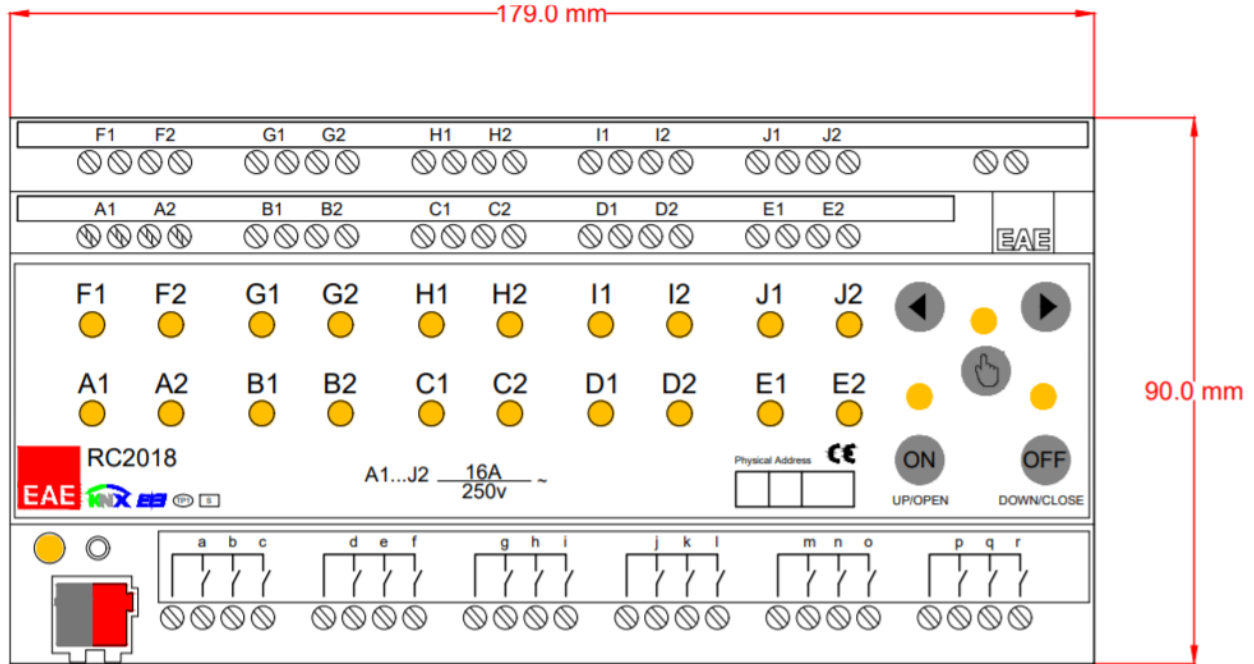
Connection Diagram 7



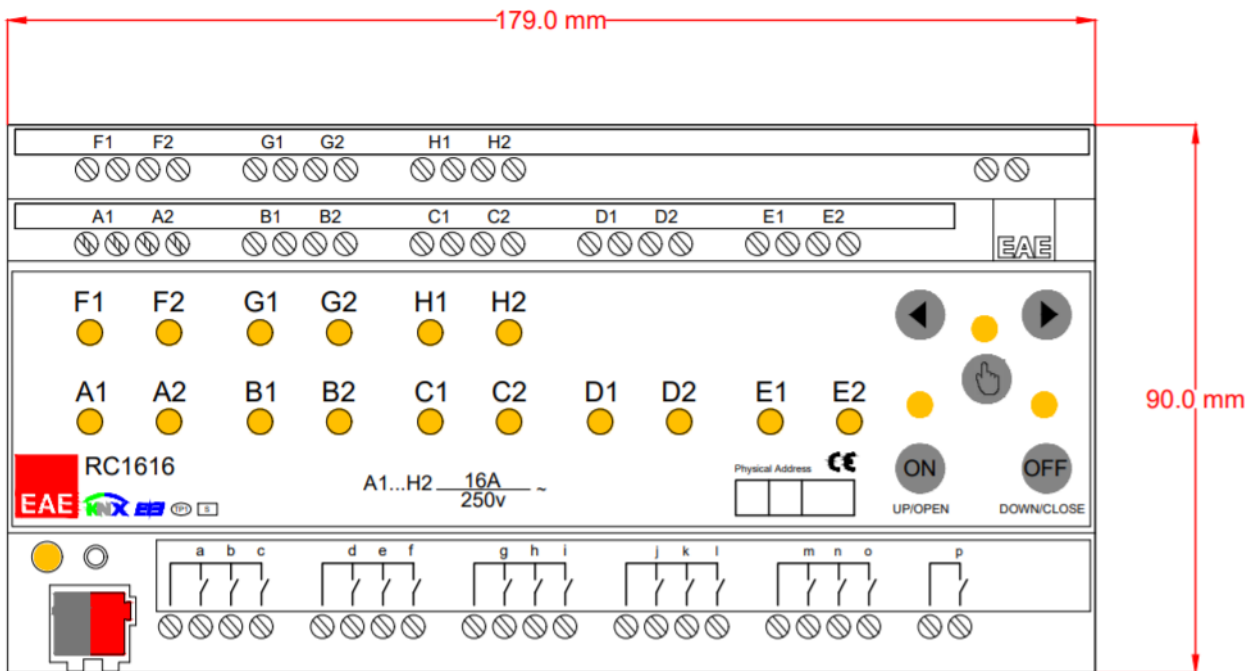
Connection Diagram 8

Scale Drawings RCUXYYY

RCU2018

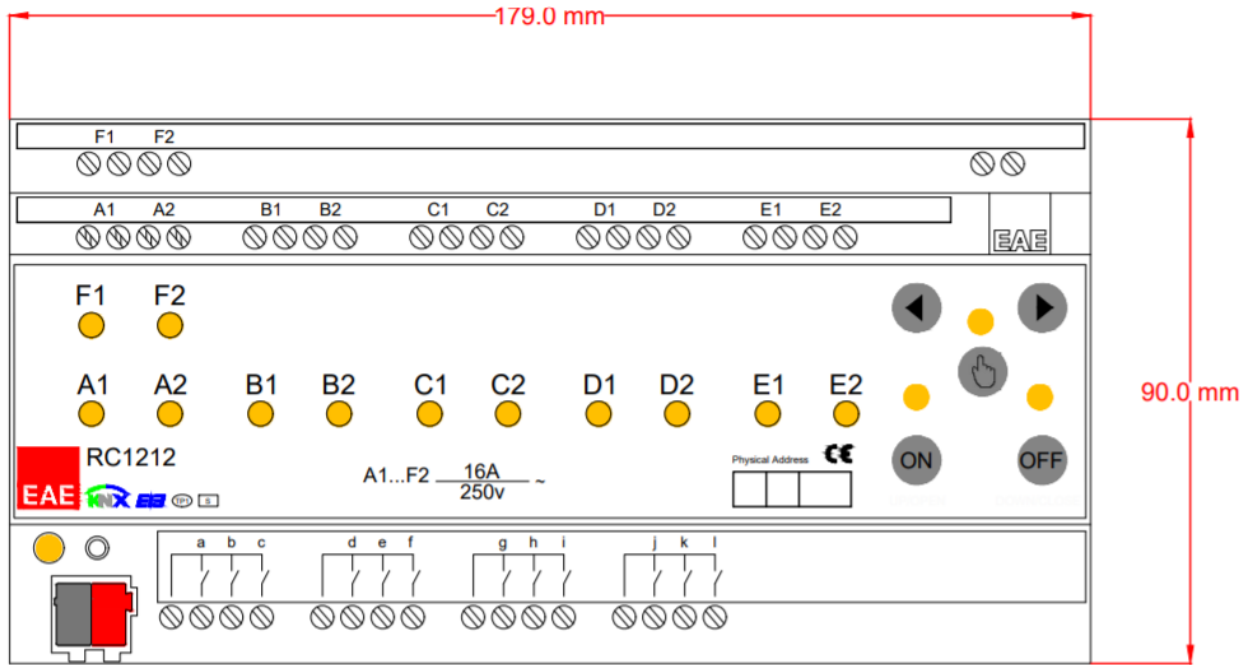


RCU1616

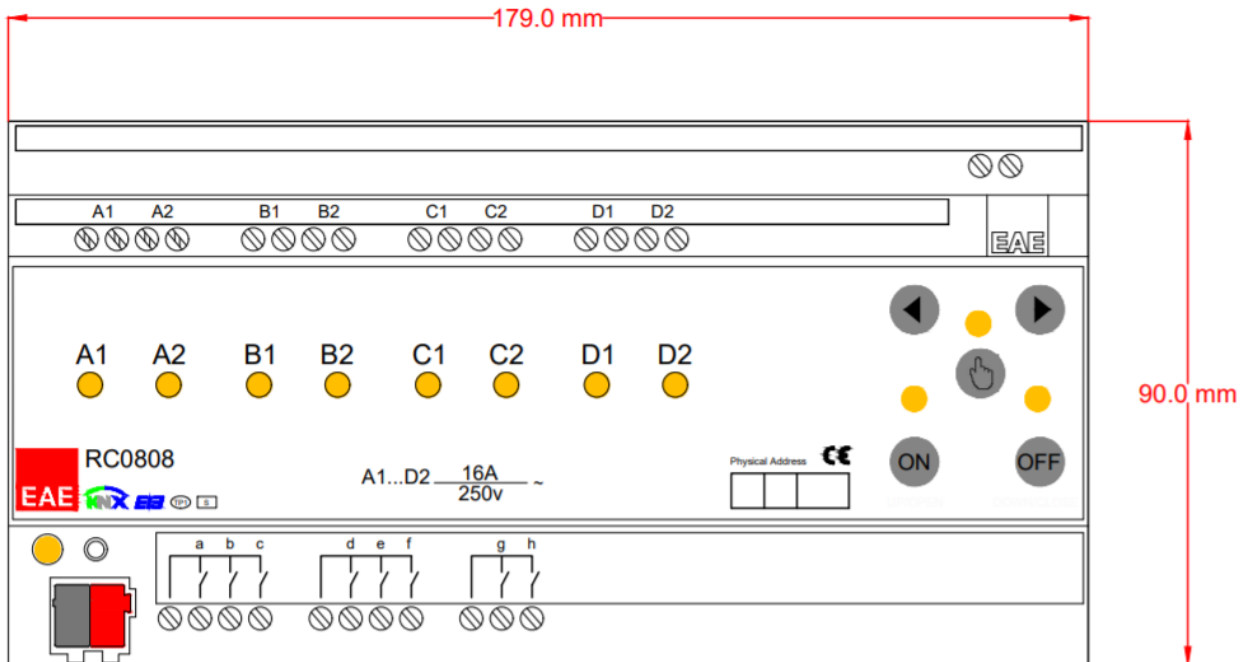




**RCU1212**



**RCU0808**



Scale Dimensions RCUXYY

