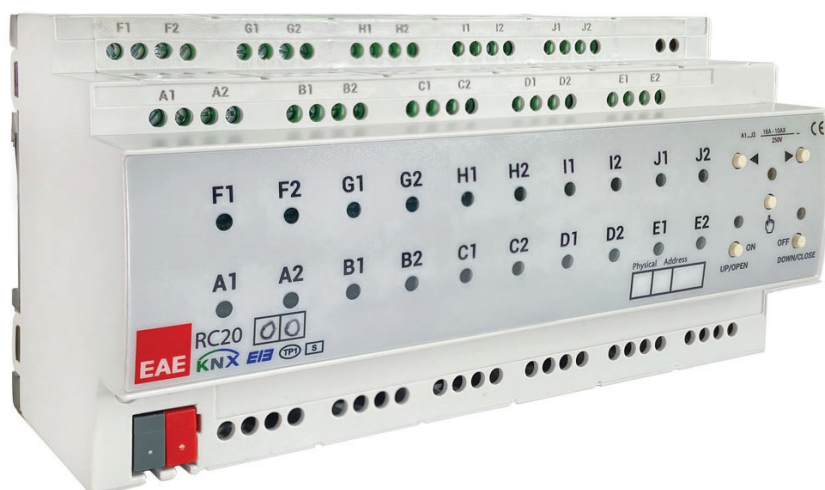


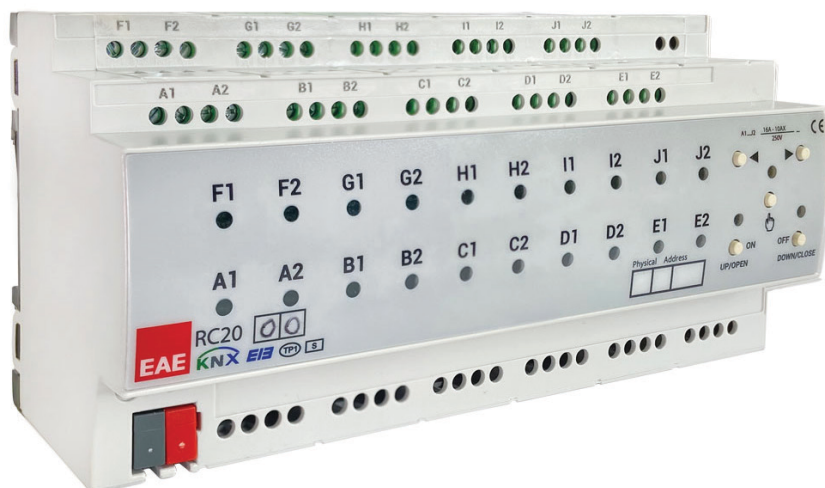
Datasheet RCXXYY

## **EAE KNX Room Control Unit**

*All you need is EAE*



## General Description



Available versions of EAE RC Series:

RCU2018	RCU2000
RCU2016	RCU2000
RCU1212	RCU1200
RCU0808	RCU0800

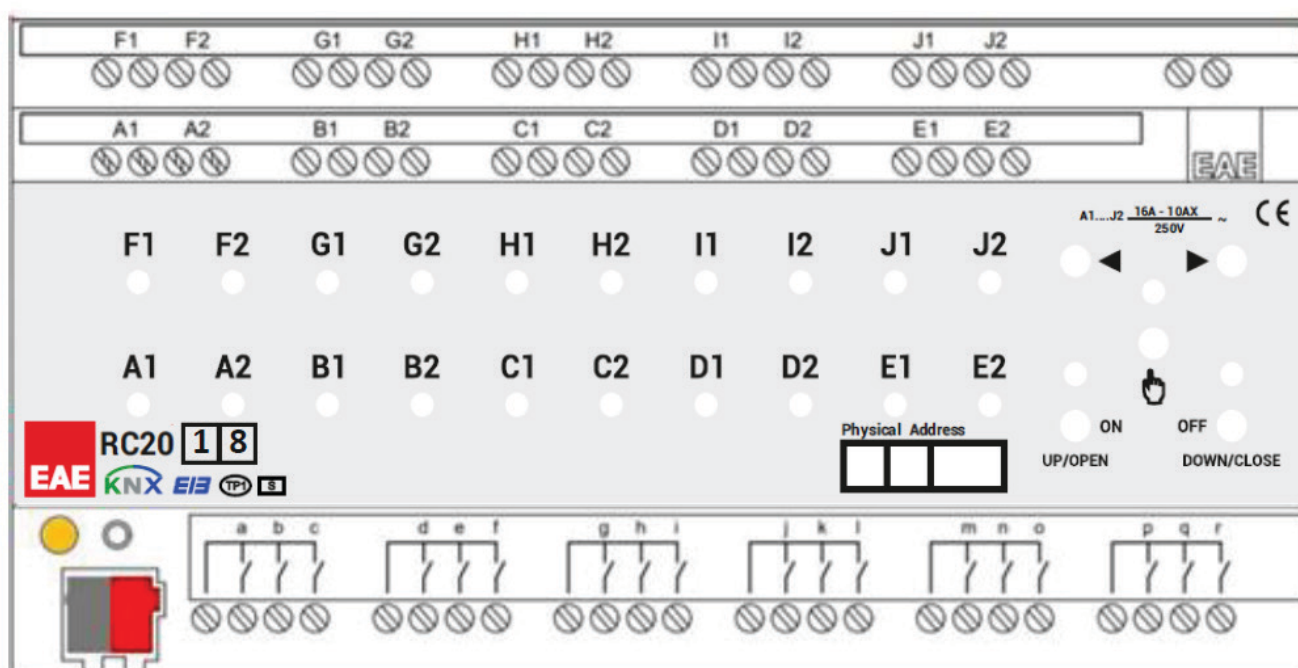
Note: RCXXYY where XX denotes the number of outputs and YY number of inputs.

- 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	20 output (RCU2018, RCU2000) 16 output (RCU1616, RCU1600)	
	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	18 binary inputs 16 binary input	
	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	0.65 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
<b>RCU20YY</b>	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
<b>RCU16YY</b>	A1A2-B1B2... H1H2	A-B-C-D-E-F-G-H	AB - CD - EF- GH	AB - CD - EF- GH	AB - CD - EF- GH
<b>RCU12YY</b>	A1A2-B1B2... F1F2	A-B-C-D-E-F	AB - CD - EF	AB - CD - EF	AB - CD - EF
<b>RCU08YY</b>	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.

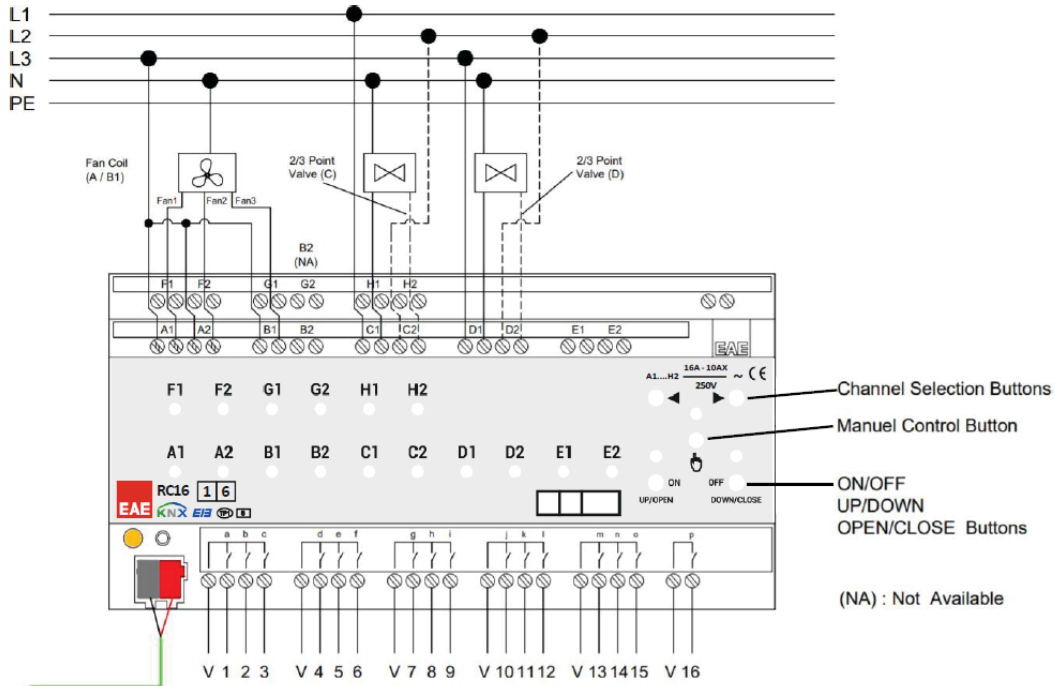
#### For DC Blind, Fan Coil Fan Control and Valve Control;

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

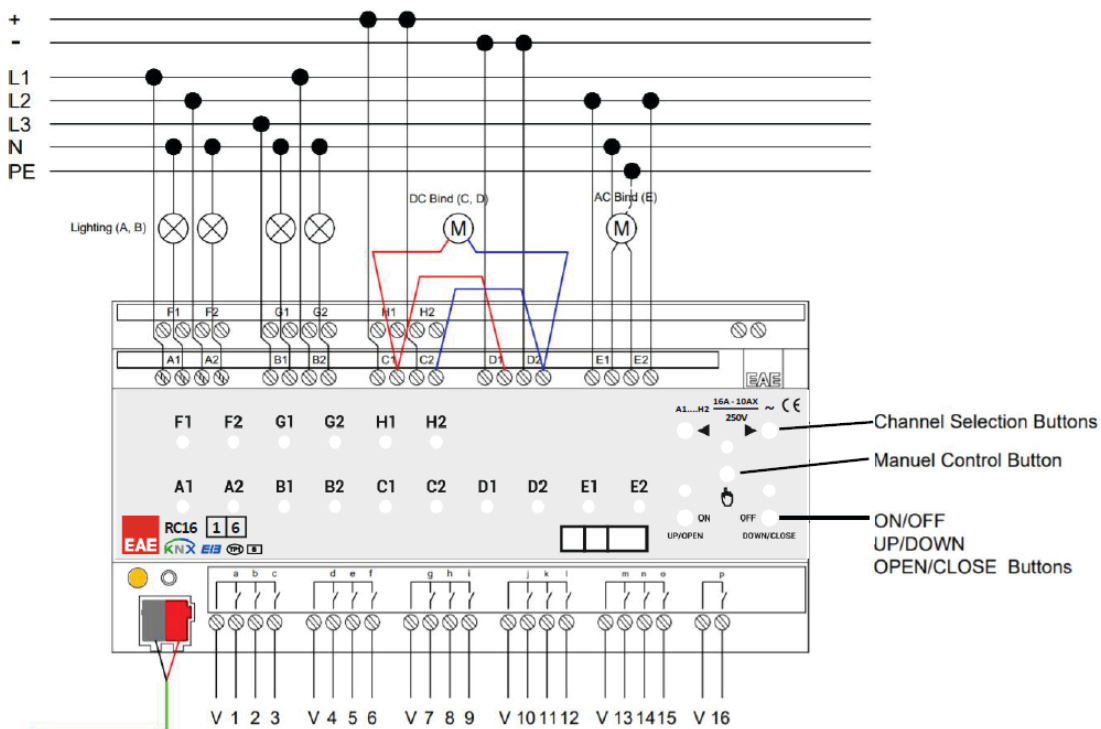


## Connection Examples

### RC1616



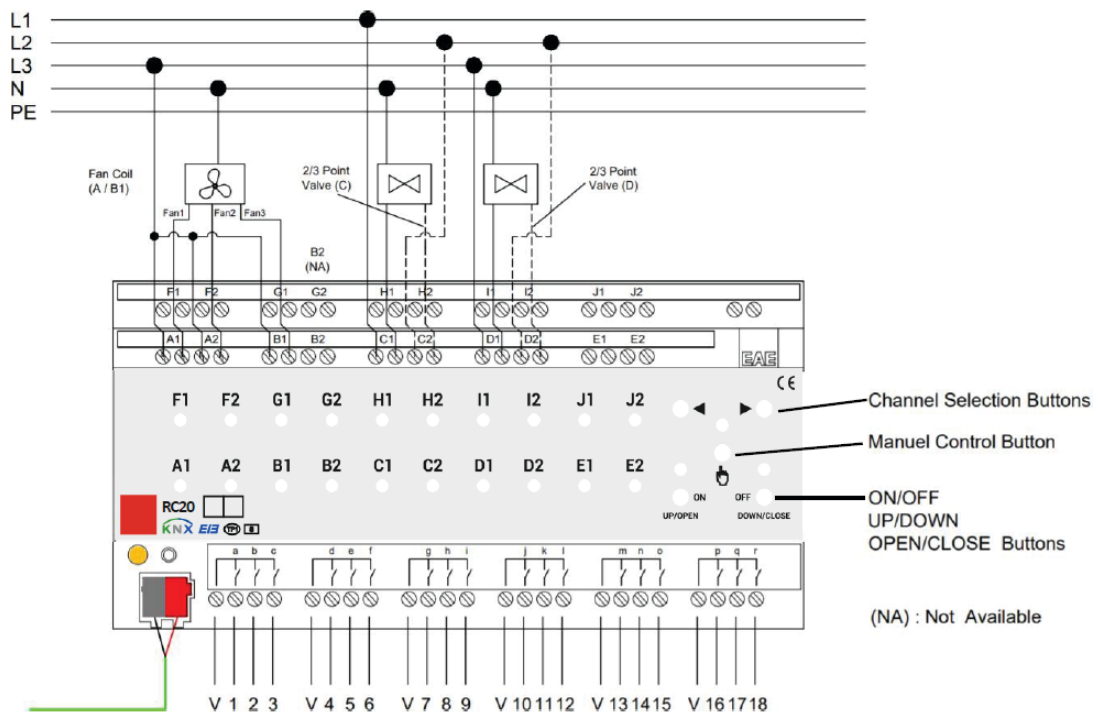
Connection Diagram 5



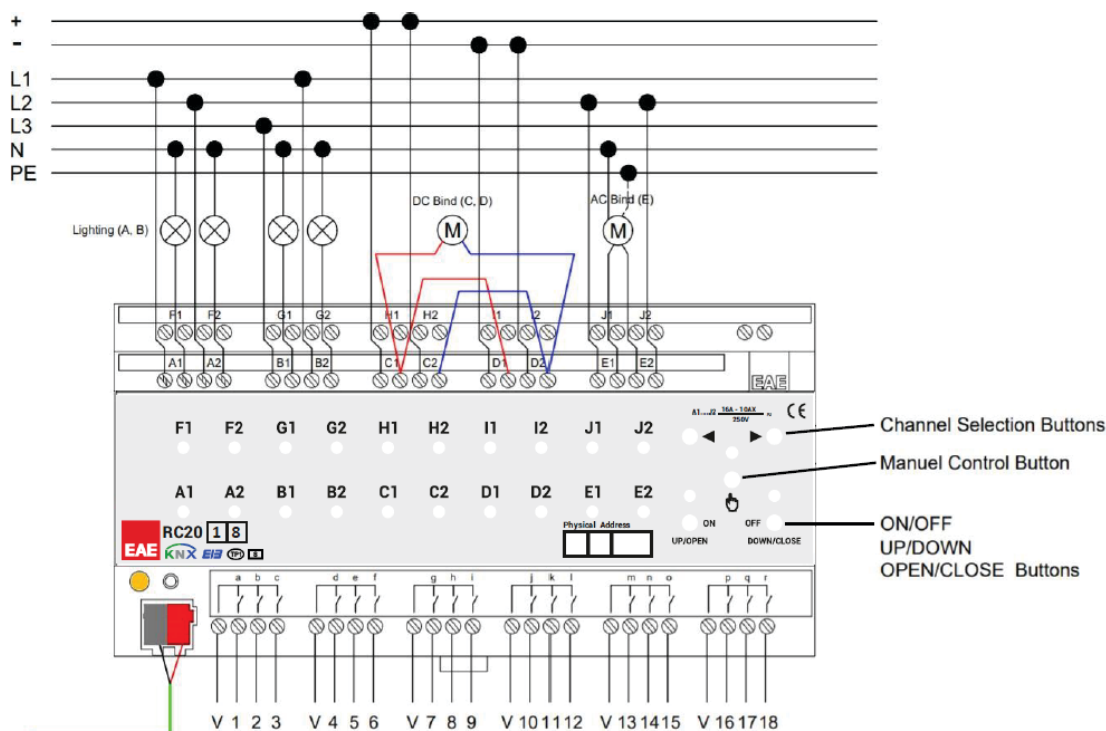
Connection Diagram 6

### Connection Examples

#### RC2018



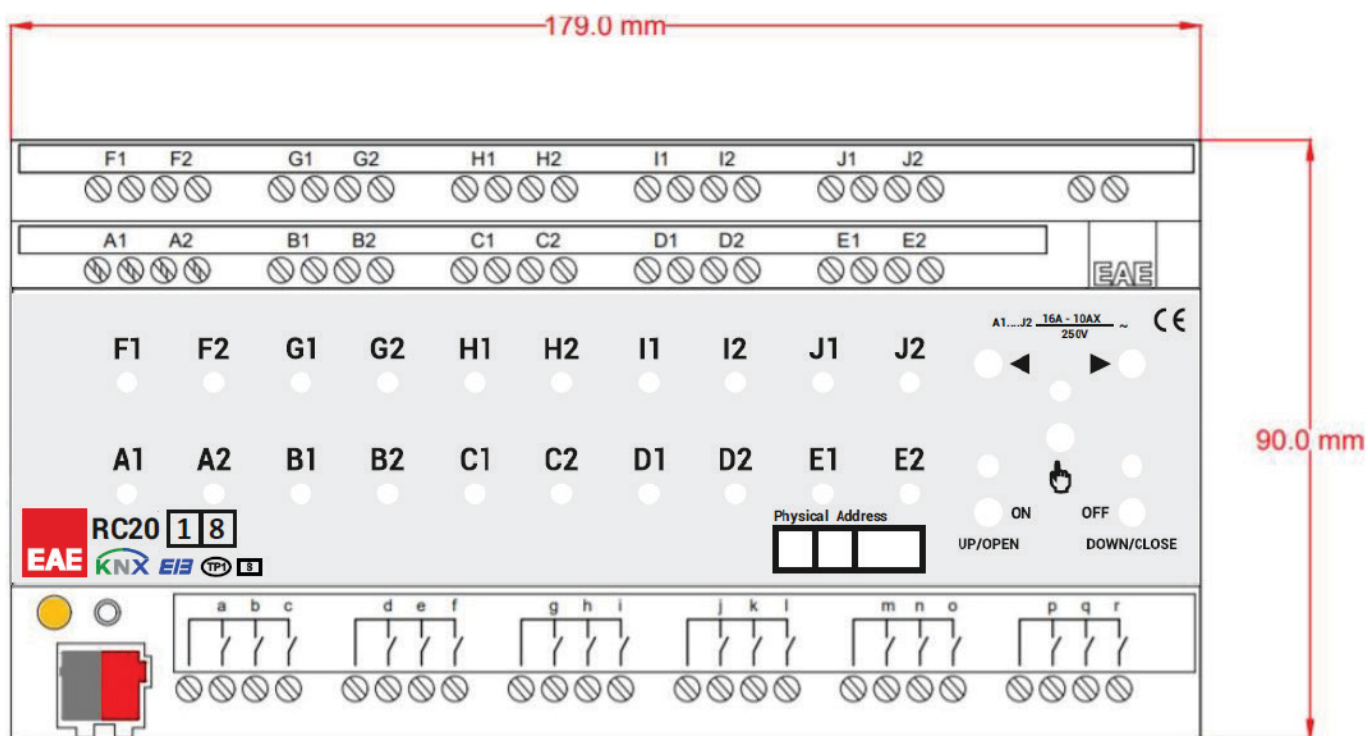
Connection Diagram 7



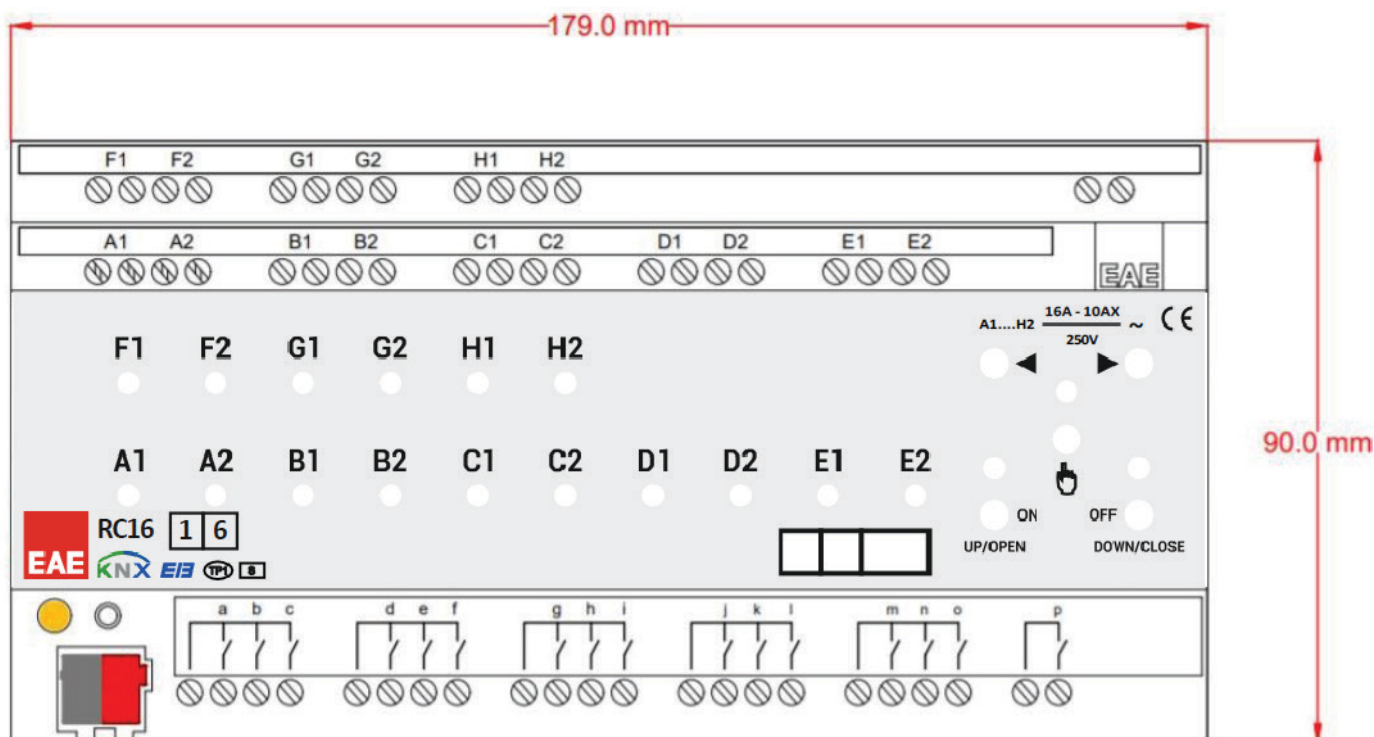
Connection Diagram 8

## Scale Drawings RCUXYY

RC2018



RC1616



## Scale Dimensions RCUXYY

