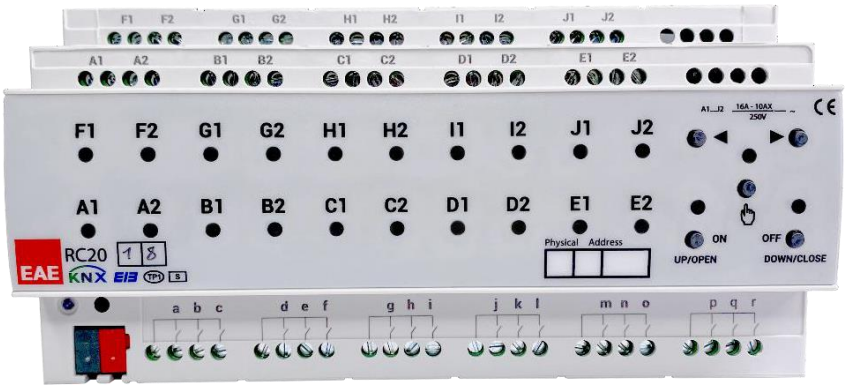
General Description



Available versions of EAE RC Series:

RC2018	20 Output – 18 Input
RC2000	20 Output – No Input
RC1616	16 Output – 16 Input
RC1600	16 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.

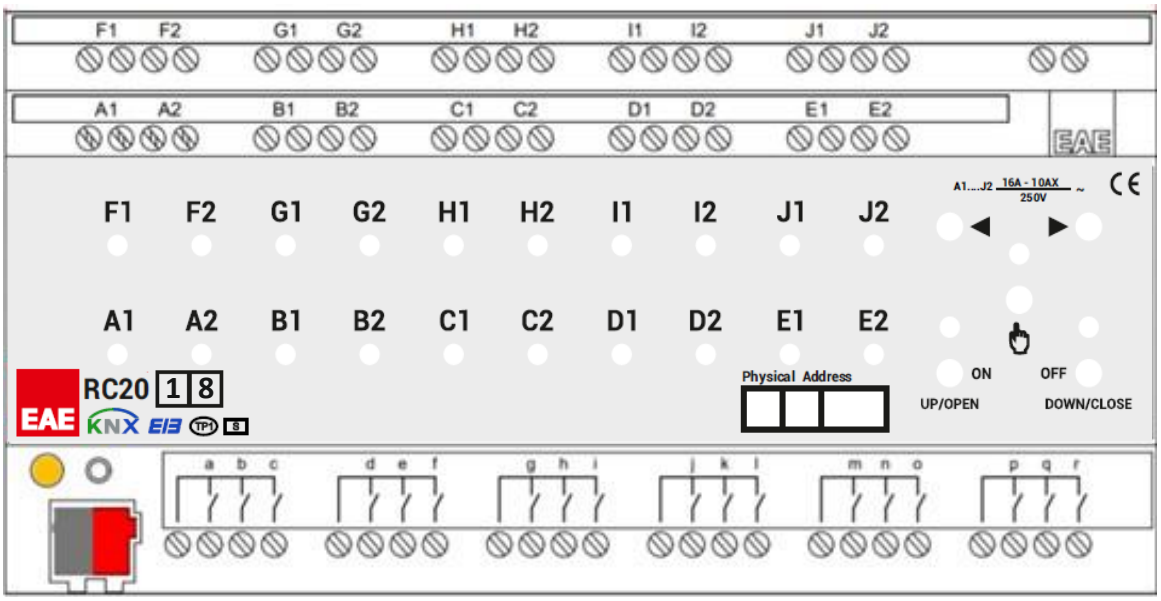
- 220V auxiliary power is NOT required.

Technical Data RCXXYY Series

Type of protection	IP 20	EN 60 529
Safety class	II	EN 61 140
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…2,25 mm stranded wire with ferrule
	-Max tightening torque	0.8 Nm
	- KNX	Bus connect terminal
Output	- Number	XX output
	- Switching ratings	16A 250 VAC/6x 10^3 OPS(Resistive) 3500W 277VAC/1.2x10^4 OPS(Incasdent lamp)
	- Max. Inrush current	492A/1.5ms-165A/20ms
	- Max. switching power	4000VA
	- Mechanical life	2 x 10^6
Type of contact	- Potential-free, bistable	
Input	- Number	YY binary inputs
	- Scanning voltage	32 V pulsed
	- Current	0.1 mA
	- Cable length	< 300 m
Installation	- 35mm mounting rail	EN 60 715
Operating elements	- LED (red) and button	For physical address
Temperature range	- Operation	-5° C + 45° C
	- Storage	-25° C + 55° C
Dimensions		66 x W x 90mm
	Width W in mm	180 mm
	Width W in units (18 mm modules)	10x18 modules
Weight	0.65 kg	
Box	Plastic, polycarbonate, colour grey	
CE	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
RC20YY	**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**
RC16YY	**A1A2-B1B2…H1H2**	**A-B-C-D-E-F-G-H**	**AB – CD – EF-GH**	**AB – CD – EF-GH**	**AB – CD – EF-GH**
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;

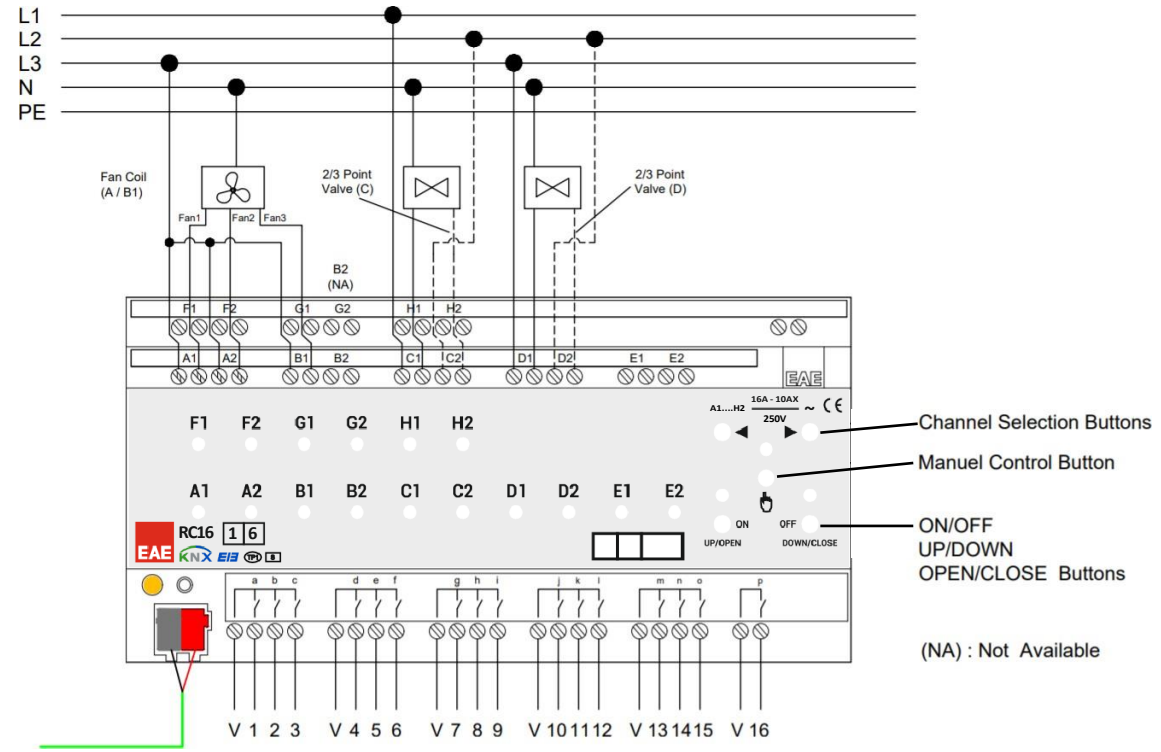
- Channels can be used individually, in example: A1 & A2 can be used as a switch for lighting and B1 & B2 can be used as an AC Blind etc. as shown with **red coloured** drawings in above visual

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

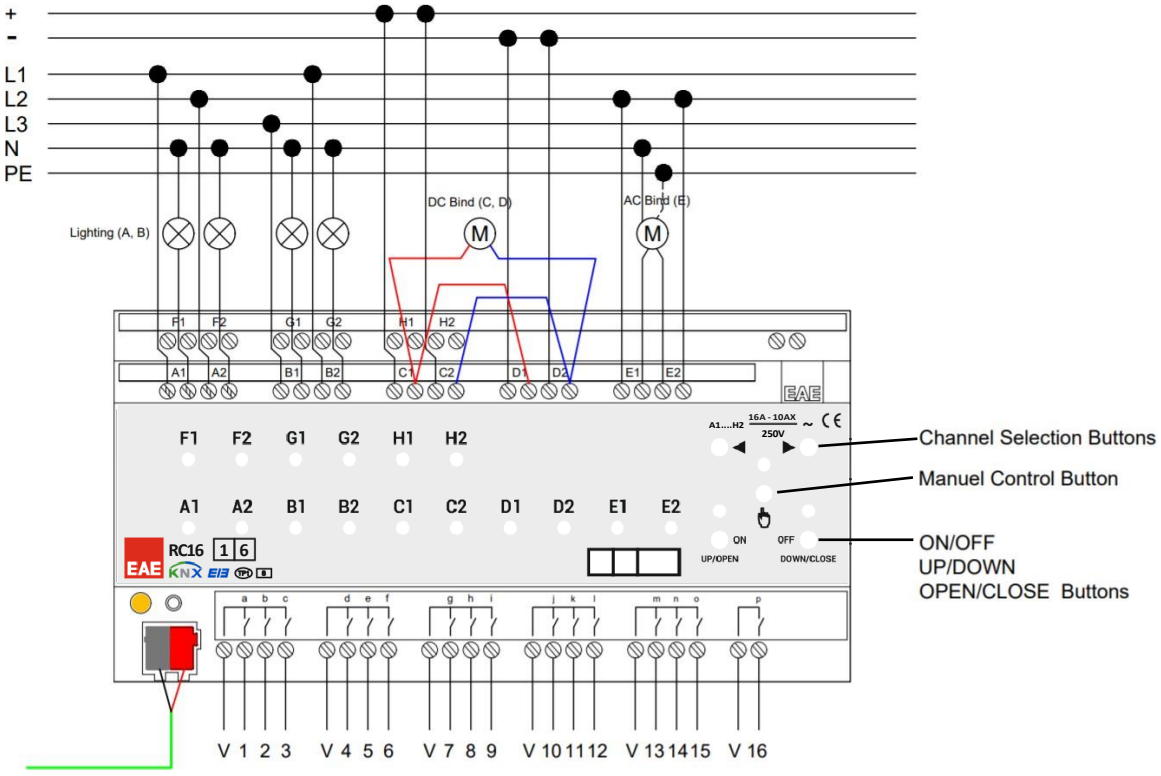
- Subsequent channels are linked together, in example: G1G2 and H1H2 have to be used together for DC Blind etc. as shown with **blue coloured** drawings in above visual

Connection Examples

RC1616

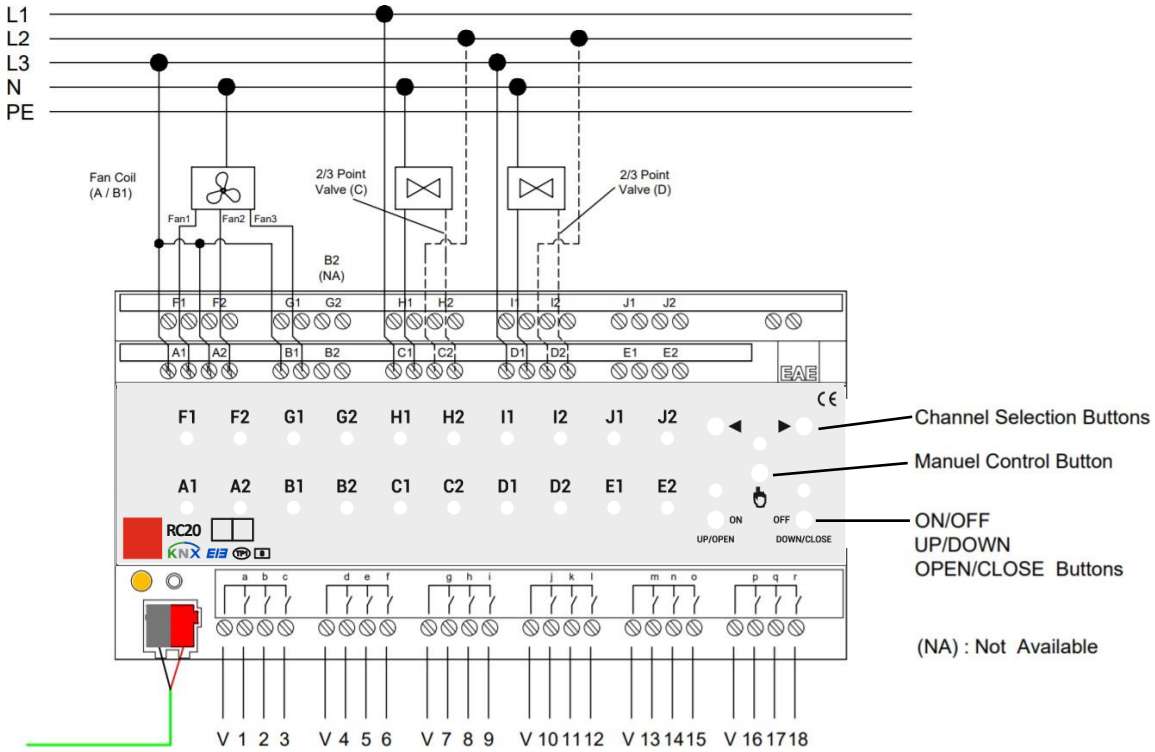


Connection Diagram 5

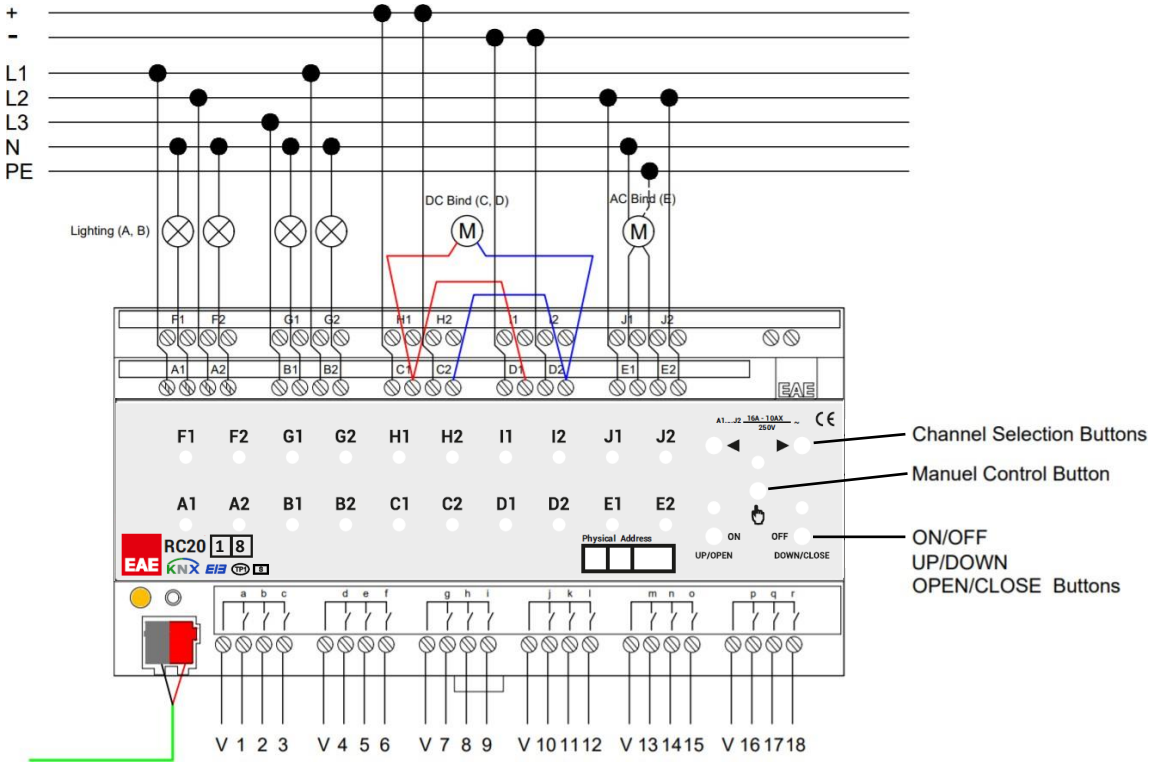


Connection Diagram 6

RC2018



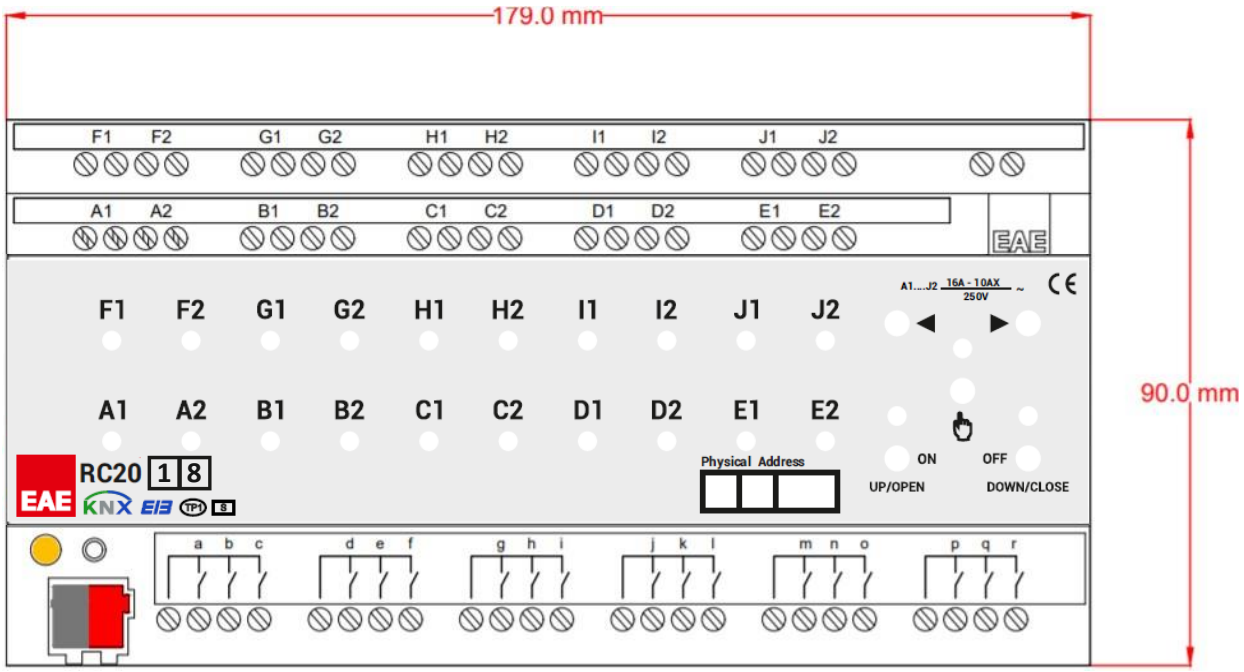
Connection Diagram 7



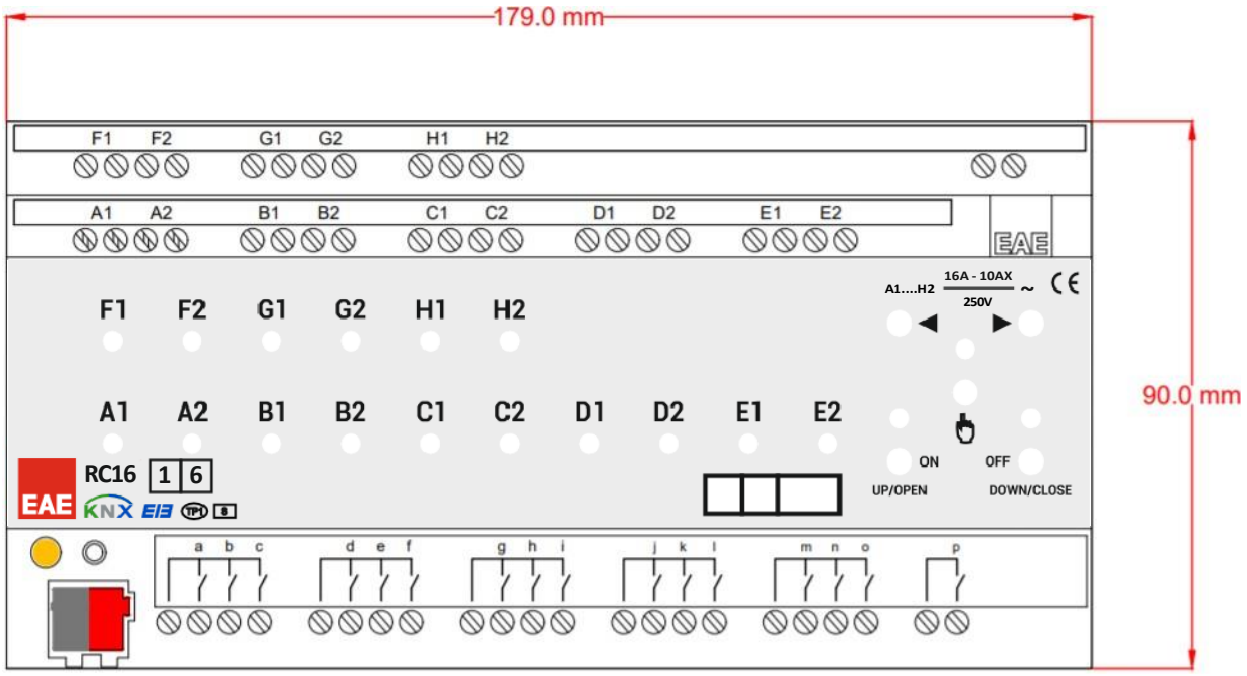
Connection Diagram 8

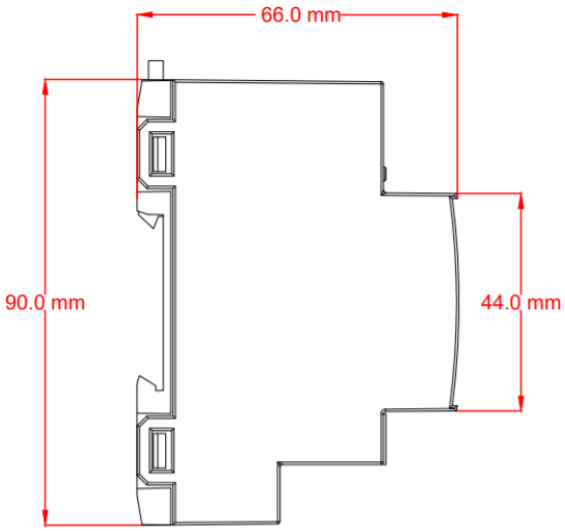
Scale Drawings RCXXYY

RC2018



RC1616




66.0 mm
90.0 mm
44.0 mm