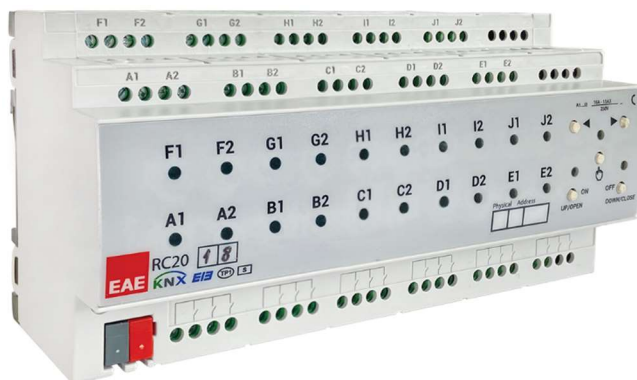


General Description



Available versions of EAE RC Series:

| | | |
|--------|----------------------|-------|
| RC2018 | 20 Output – 18 Input | 48287 |
| RC2000 | 20 Output – No Input | 48286 |
| RC1616 | 16 Output – 16 Input | 48285 |
| RC1600 | 16 Output – No Input | 48284 |
| RC1212 | 12 Output – 12 Input | 48283 |
| RC1200 | 12 Output – No Input | 48282 |
| RC0808 | 8 Output – 8 Input | 48281 |
| RC0800 | 8 Output – No Input | 48280 |

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
- Logic Function
- Priority
- Threshold

- Manual control is possible for each channel through the built- in button panel.

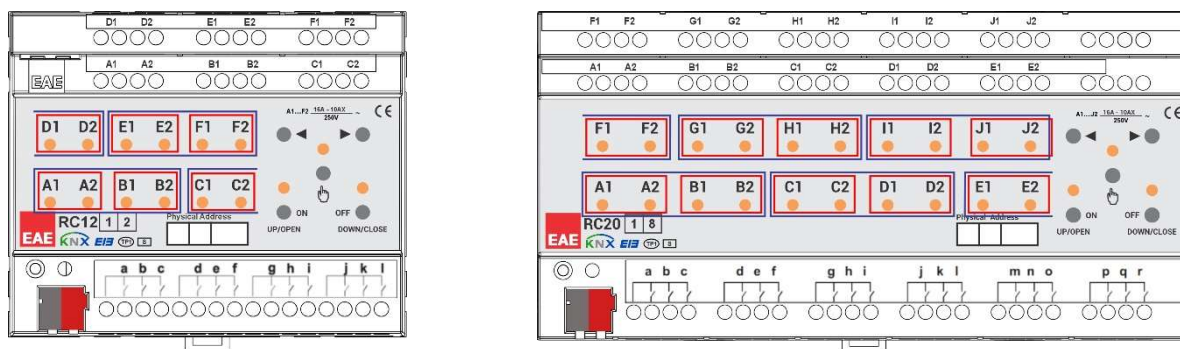
- 220V auxiliary power is NOT required

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 / 6x10 ³ OPS _(Resistive) |
| | - Incandescent lamp | 3500W |
| | - Halogen lamp | 3500W |
| | - Inductive load, transformer | 2000W |
| | - Electronic driver | 1500W |
| | - 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 | 12 V |
| | - Current | 0.3 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: | - RC2018/RC2000/RC1616/RC1600 | 66 x 180 x 90 mm |
| | - RC1212/RC1200/RC0808/RC0800 | 66 x 108 x 90 mm |
| 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



| | 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;

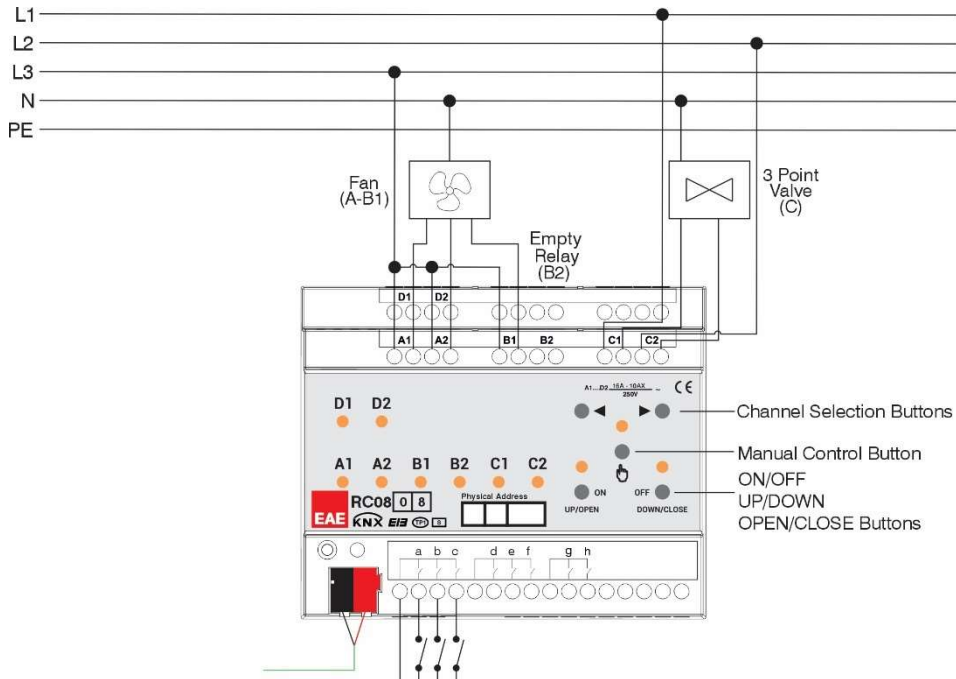
- Channels can be used individually, in example: A1 & A2 can be used as a switch for lighting and B1 & B2 can be used as an AC Blind etc. as shown with **red coloured** drawings in above visual

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

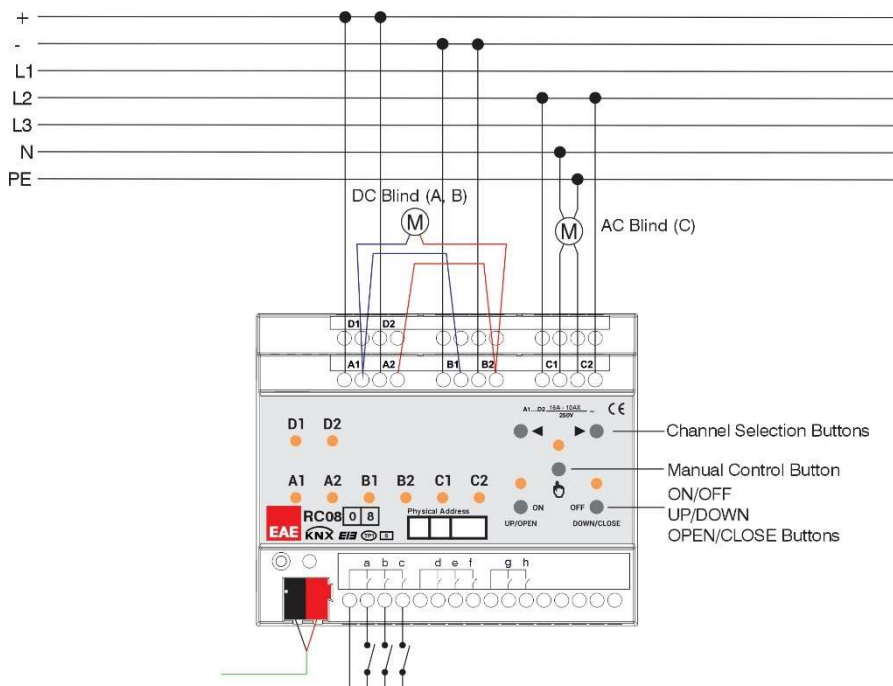
- Subsequent channels are linked together, in example: G1G2 and H1H2 have to be used together for DC Blind etc. as shown with **blue coloured** drawings in above visual

Connection Example

RC0808

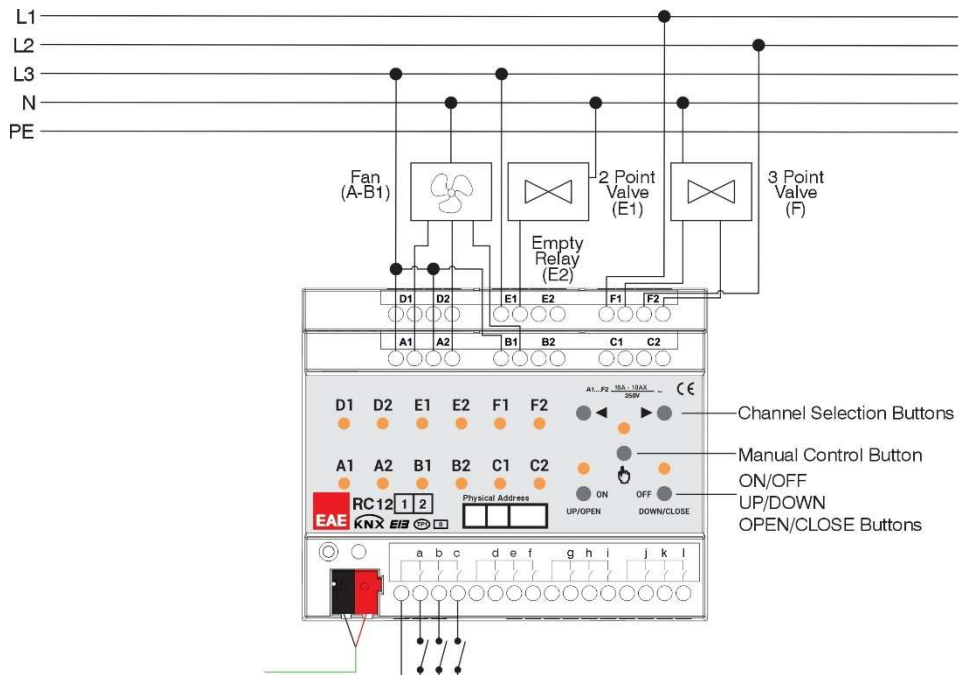


Connection Diagram 1

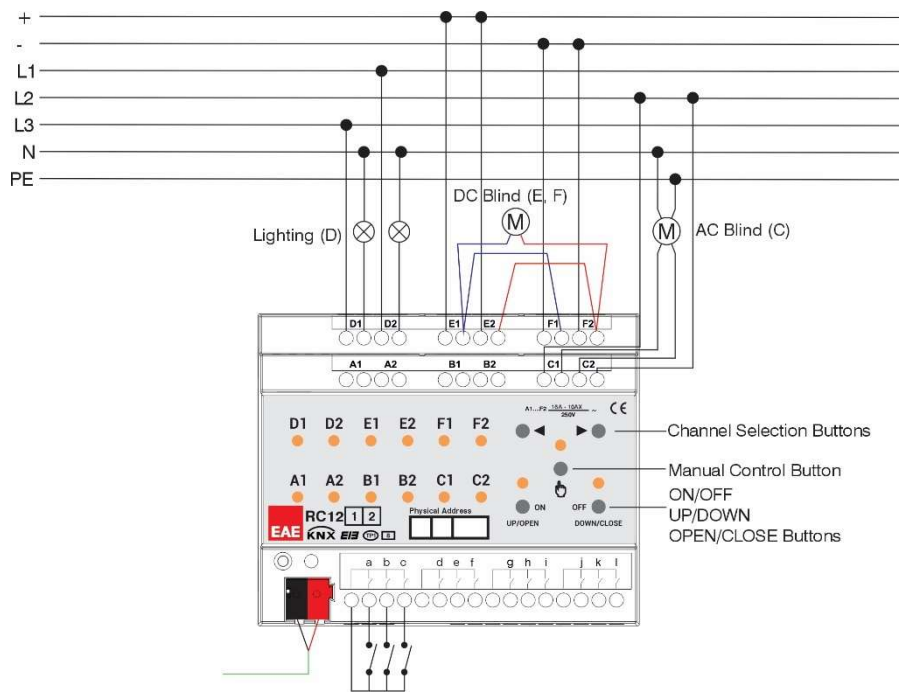


Connection Diagram 2

RC1212

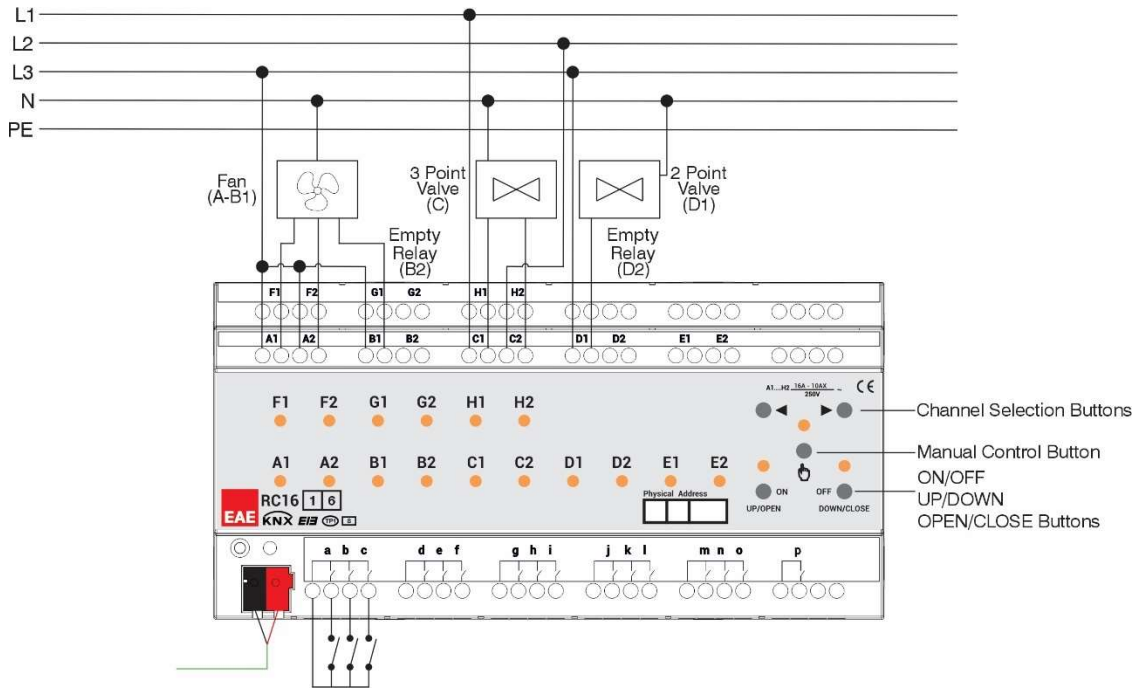


Connection Diagram 3

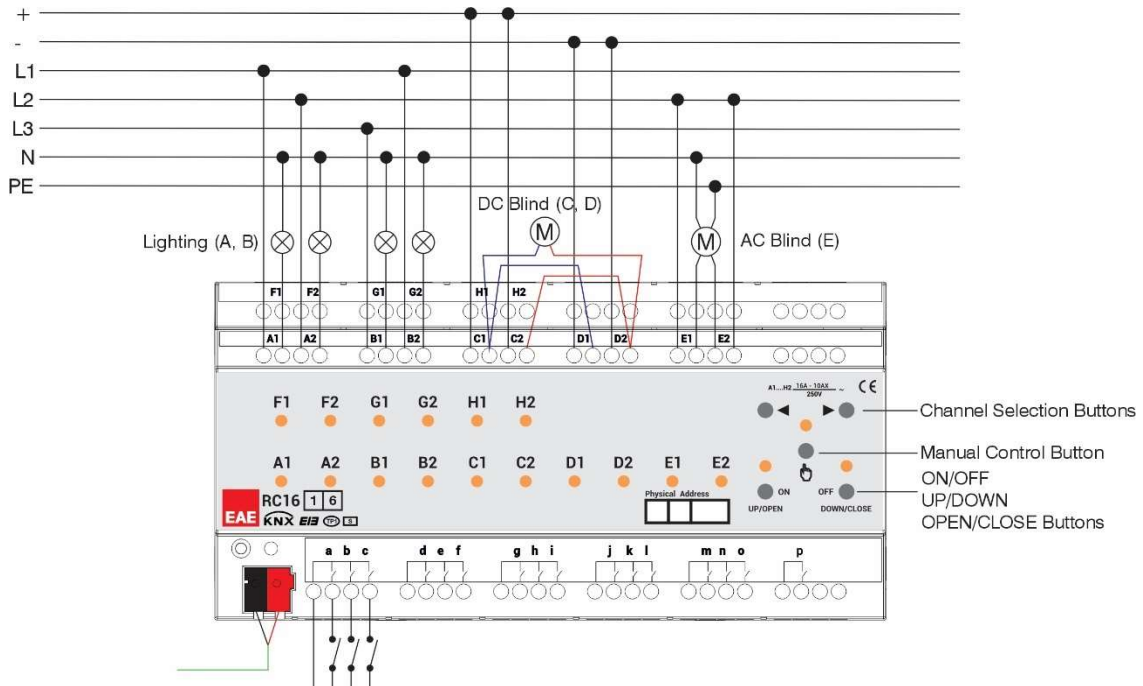


Connection Diagram 4

RC1616

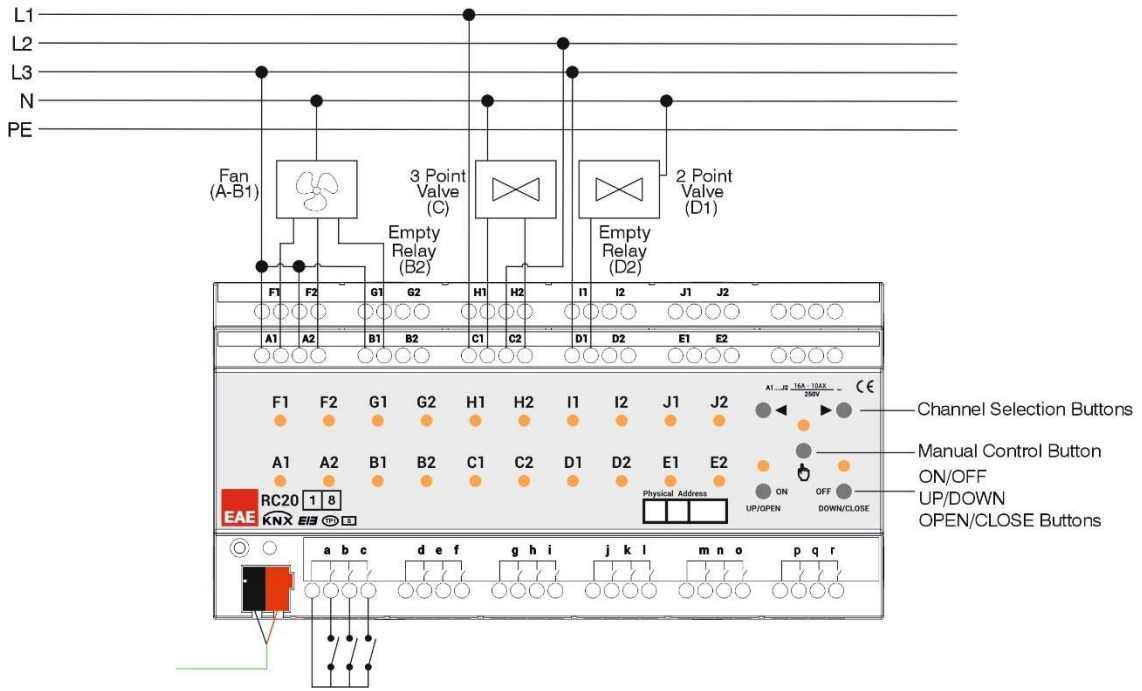


Connection Diagram 5

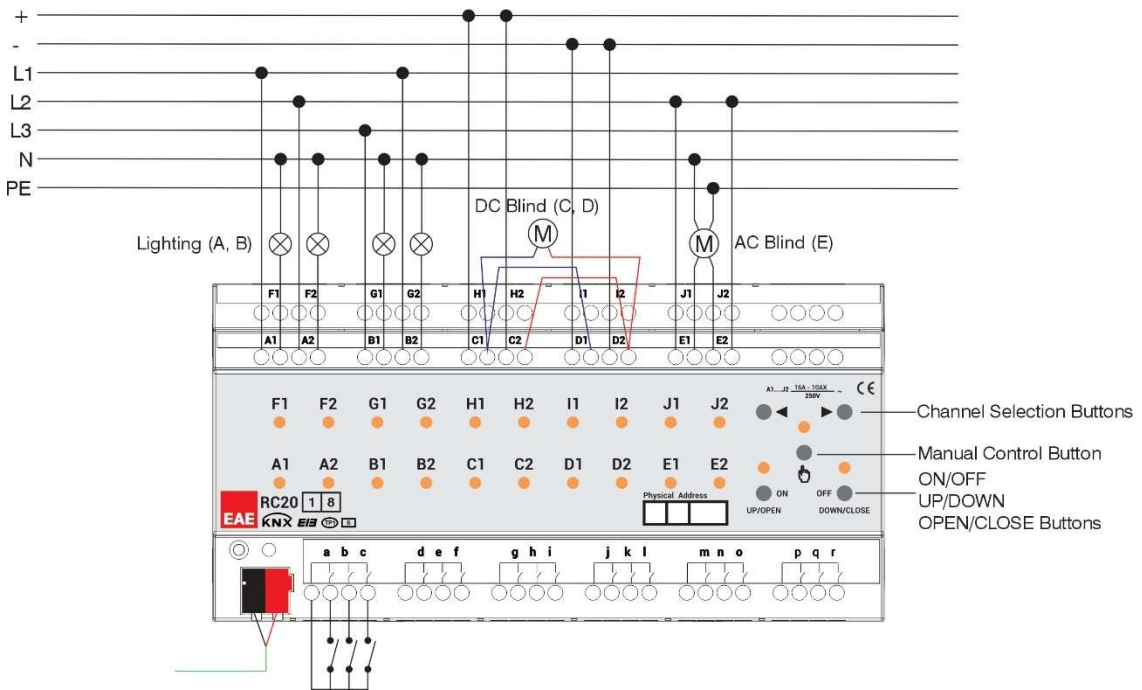


Connection Diagram 6

RC2018



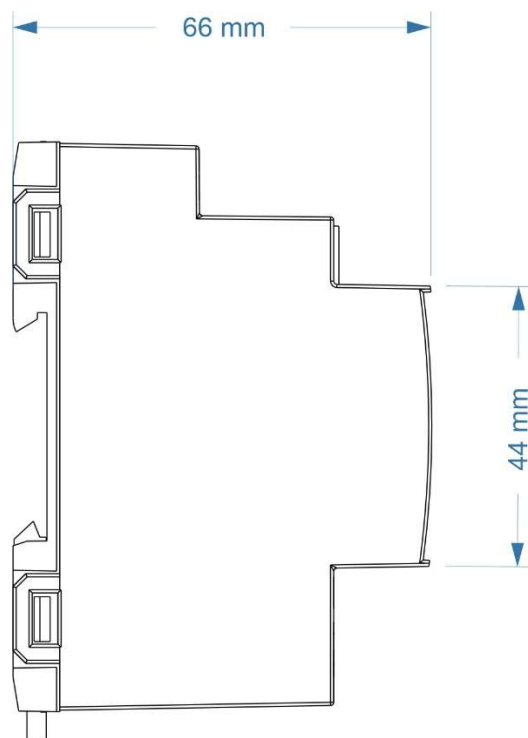
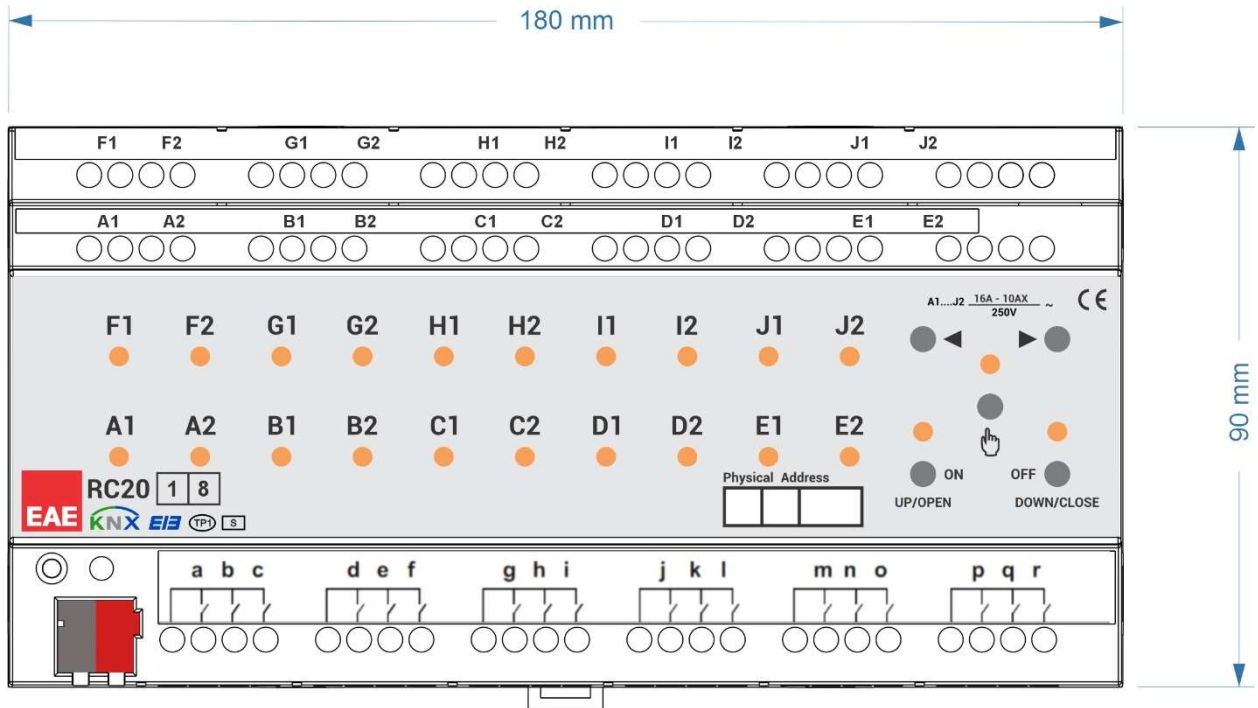
Connection Diagram 7



Connection Diagram 8

Scale Drawings

RC2018 / RC2000/RC1616/RC1600



RC1212 / RC1200/RC0808/RC0800

