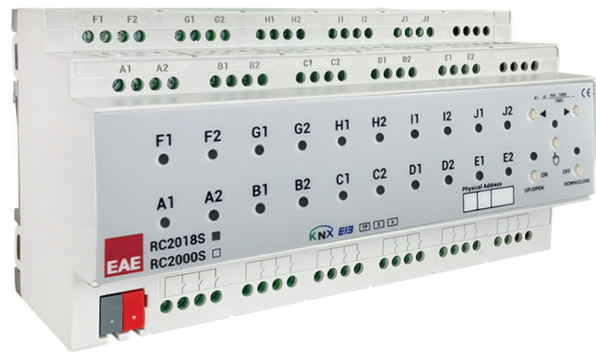


General Description



Available versions of EAE RC Series:

RC2018S	20 Output – 18 Input	48325
RC2000S	20 Output – No Input	48324
RC1616S	16 Output – 16 Input	48323
RC1600S	16 Output – No Input	48322
RC1212S	12 Output – 12 Input	48321
RC1200S	12 Output – No Input	48320
RC0808S	8 Output – 8 Input	48319
RC0800S	8 Output – No Input	48318

Note: RCXXYYSS where XX denotes the number of outputs, YY number of inputs and S denotes that it supports the KNX Data Secure protocol. 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

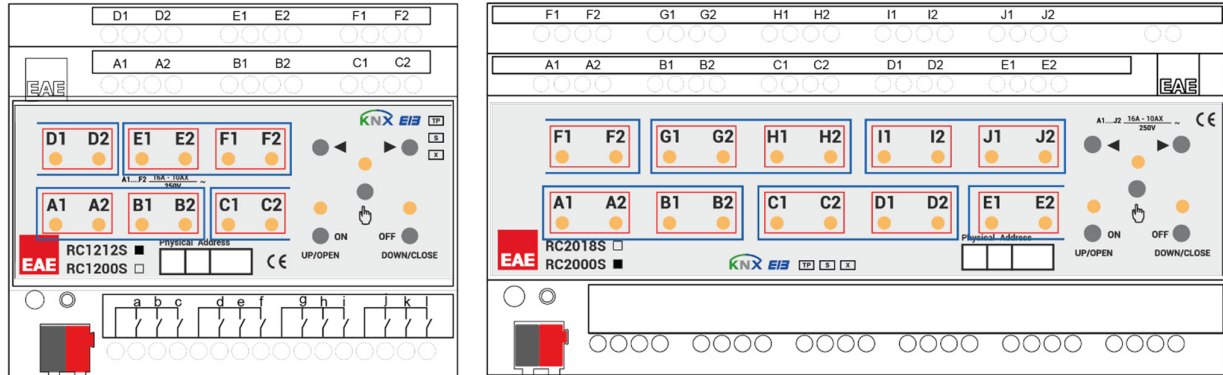
 All the RCUXYYSS series supports **KNX Data Secure**.

Technical Data RCXXYYs 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
Type of contact:	- Potential-free, bistable	
Input:	- Number	YY binary inputs
	- Scanning voltage	12 V
	- Current	0.3 mA
	- Cable length	< 300 m
Mechanical life:	- 2 x 10 ⁶	
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
Humidity:	- Max. Air. Humidity : 85% no moisture condenses	
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

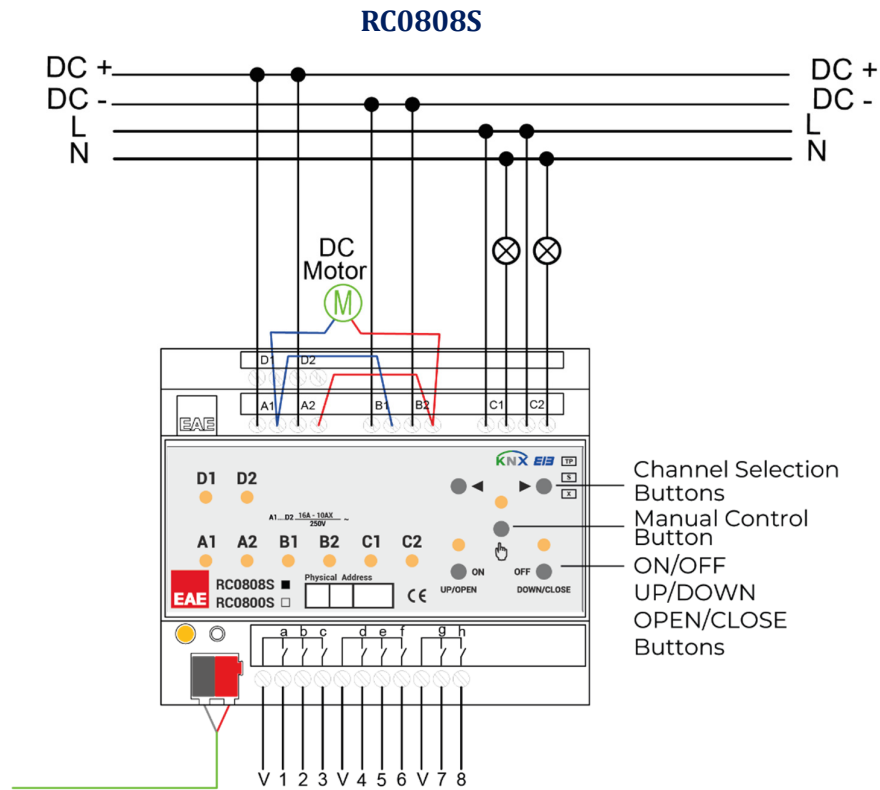
For lighting and AC Blinds;

- 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

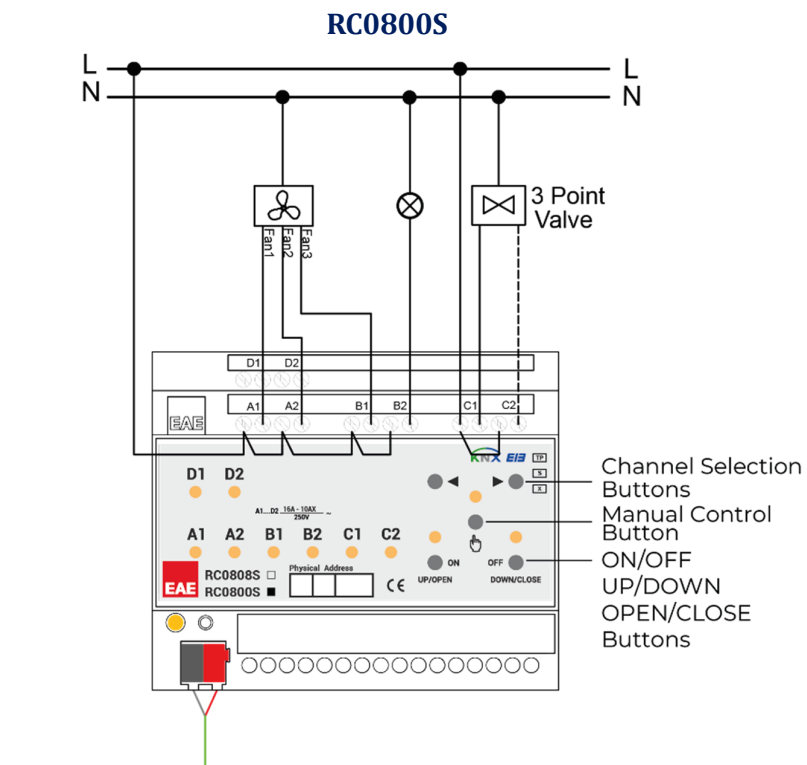
For DC Blind, Fan Coil Fan Control and Valve Control;

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

Connection Examples

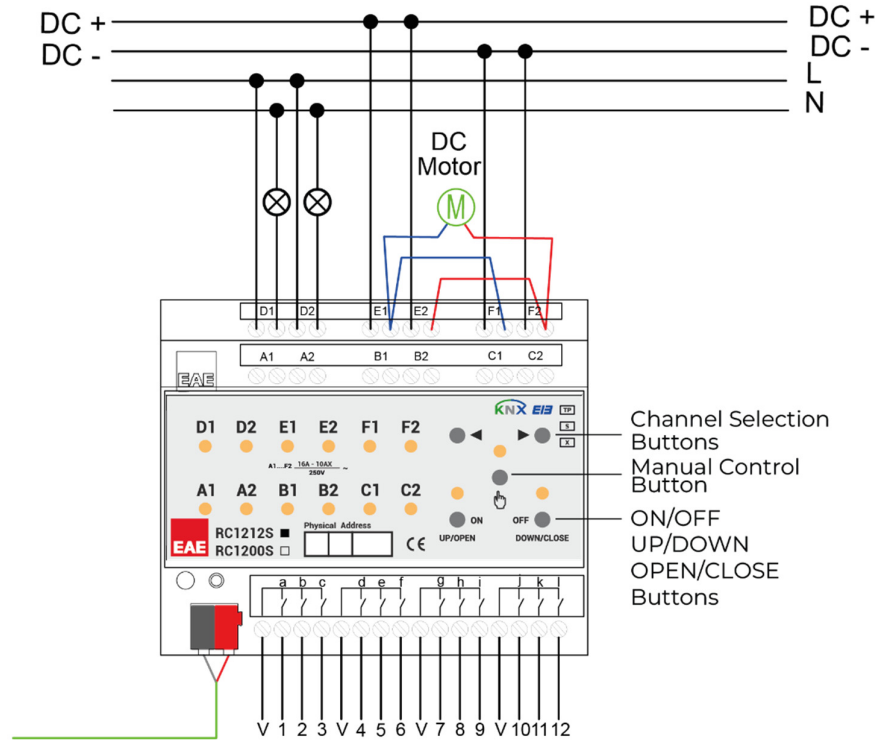


Connection Diagram 1



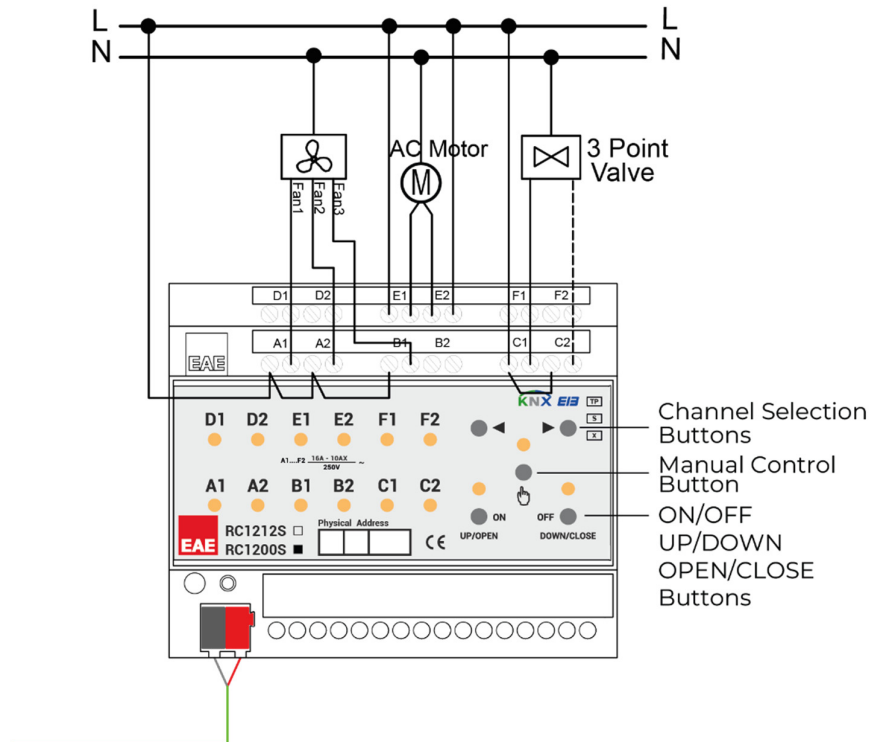
Connection Diagram 2

RC1212S



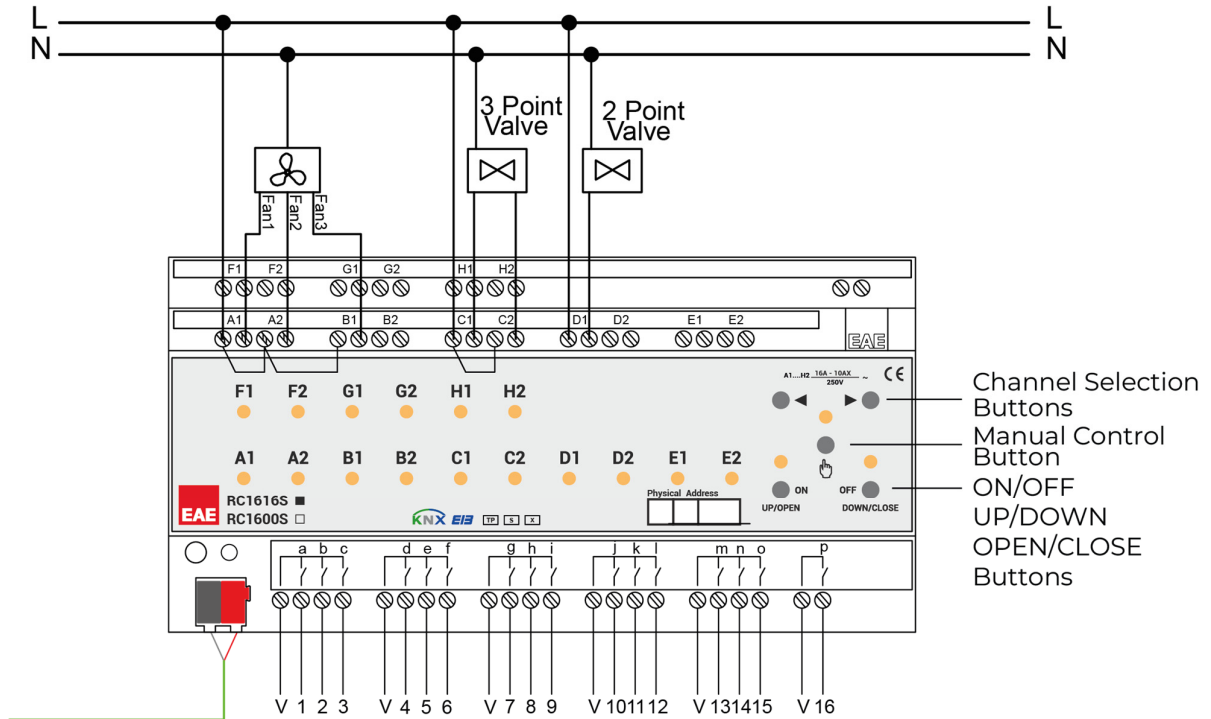
Connection Diagram 3

RC1200S



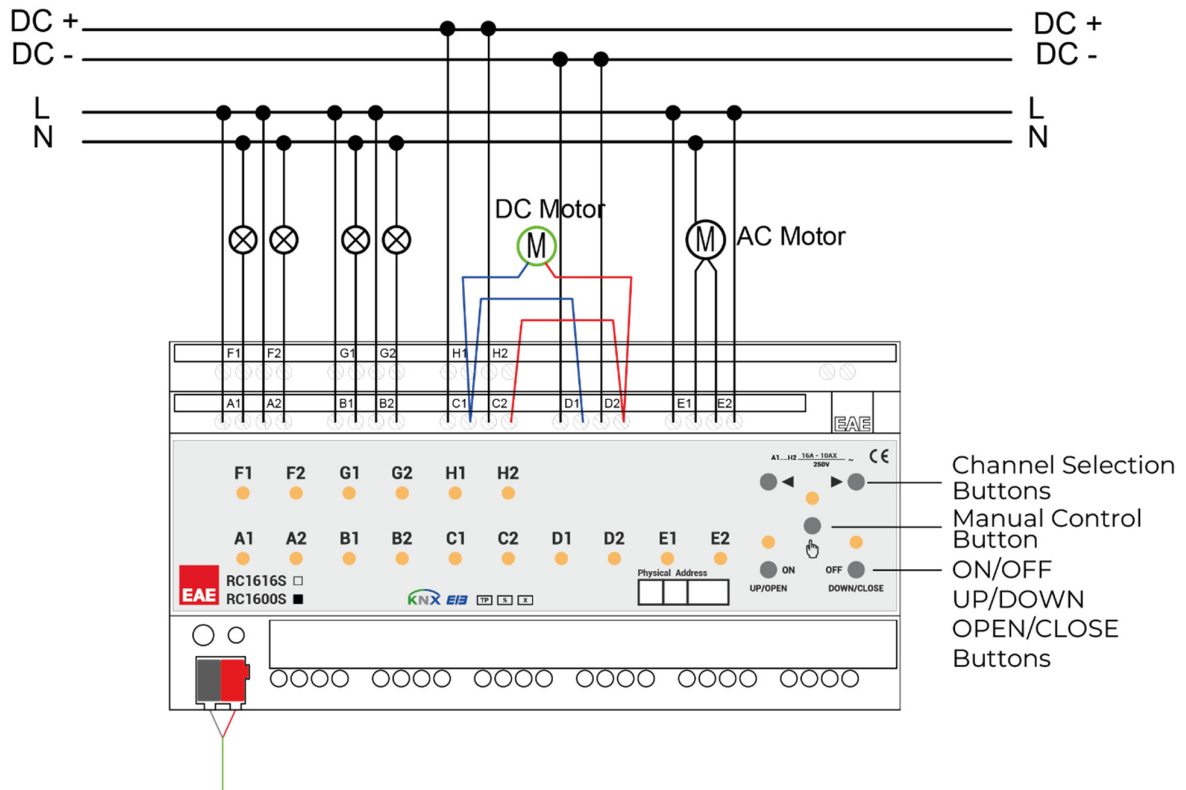
Connection Diagram 4

RC1616S

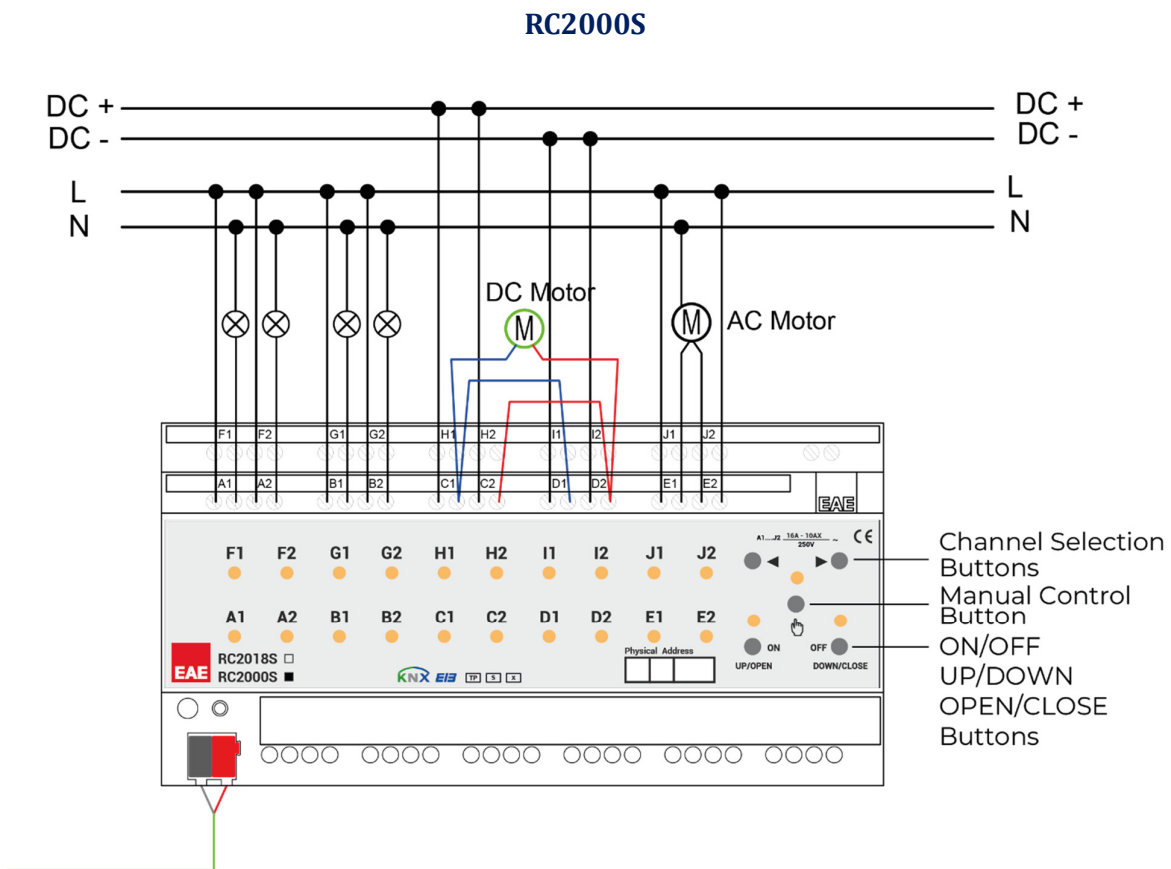
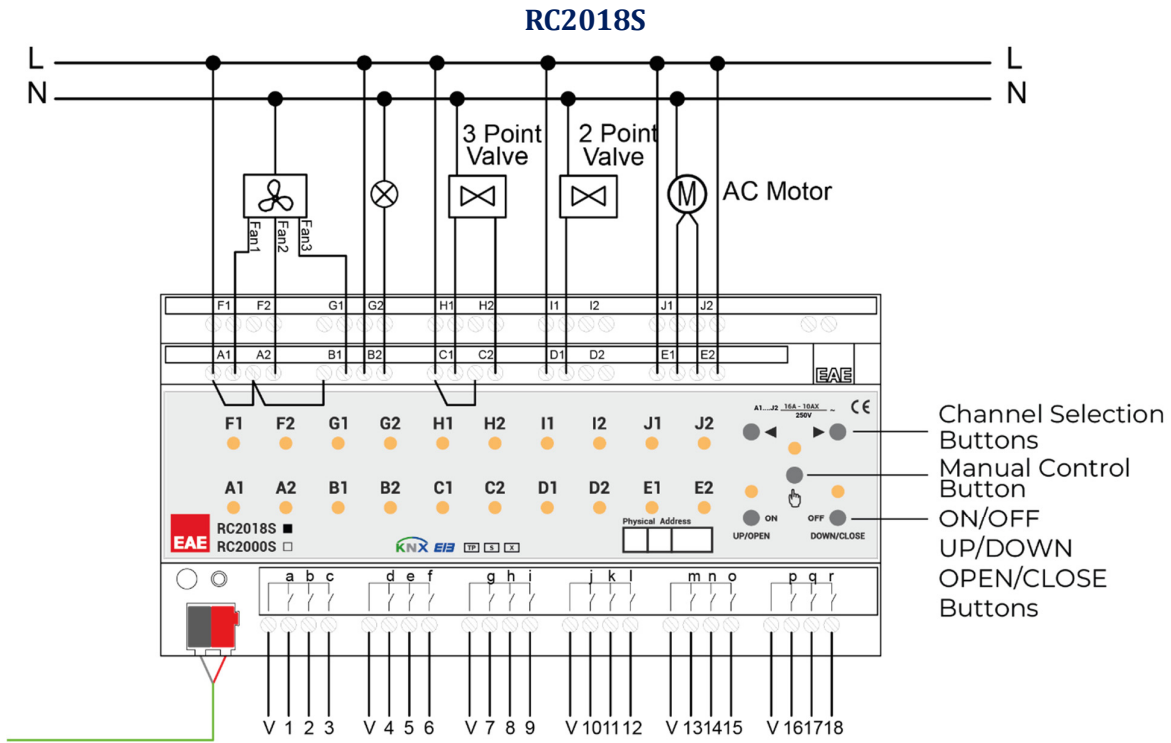


Connection Diagram 5

RC1600S

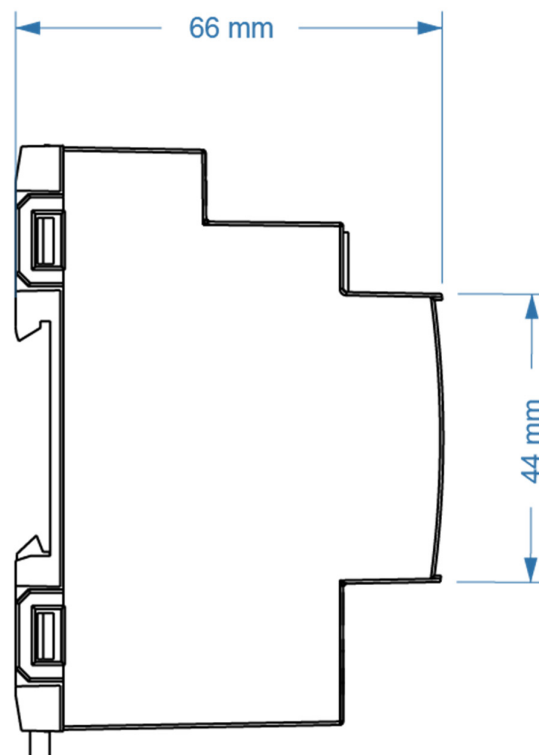
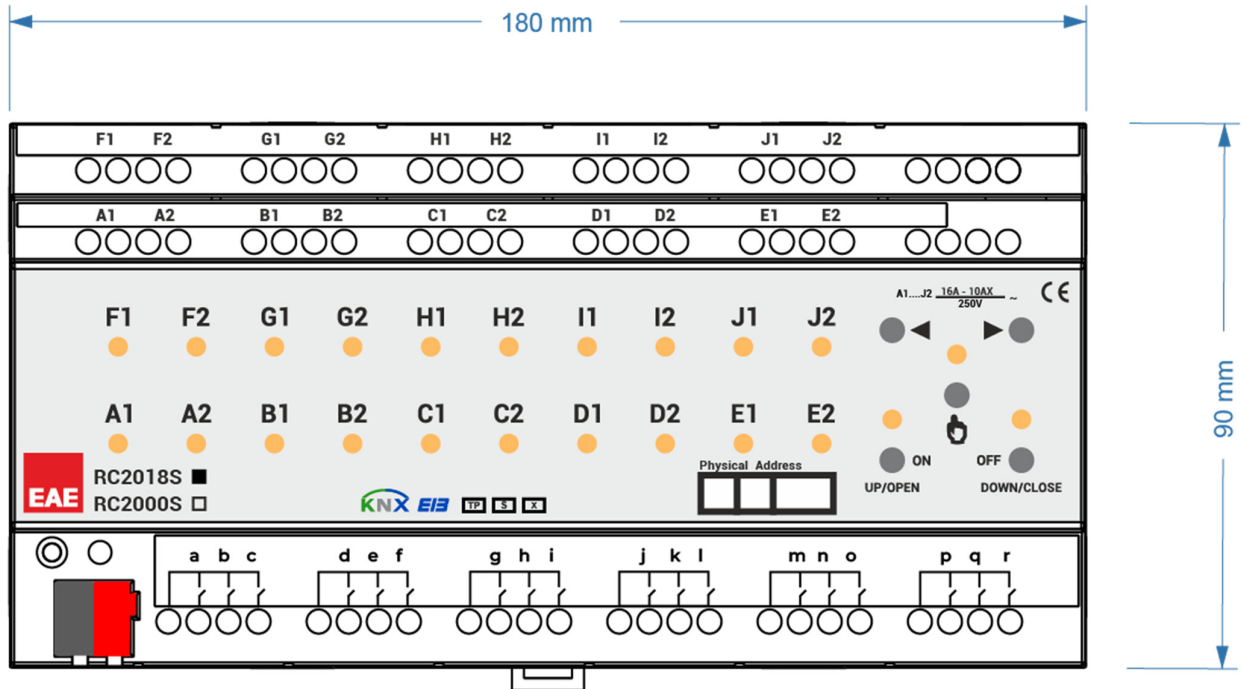


Connection Diagram 6



Scale Drawings

RC2018S / RC2000S / RC1616S / RC1600S



RC1212S / RC1200S / RC0808S/ RC0800S

