EAE
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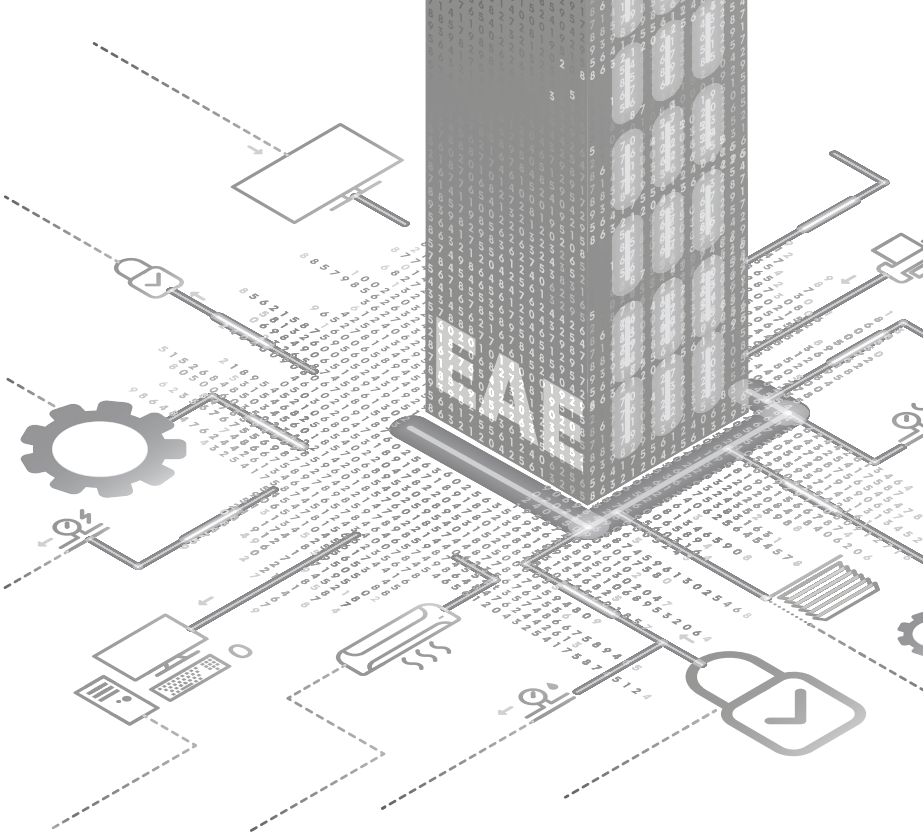
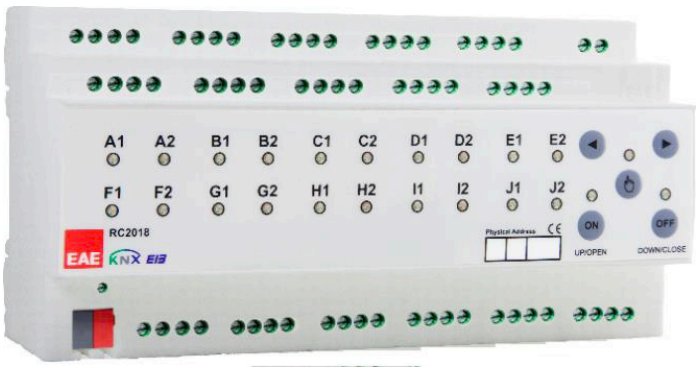


Datasheet RCUXXYY

EAE KNX Room Control Unit

All you need is EAE



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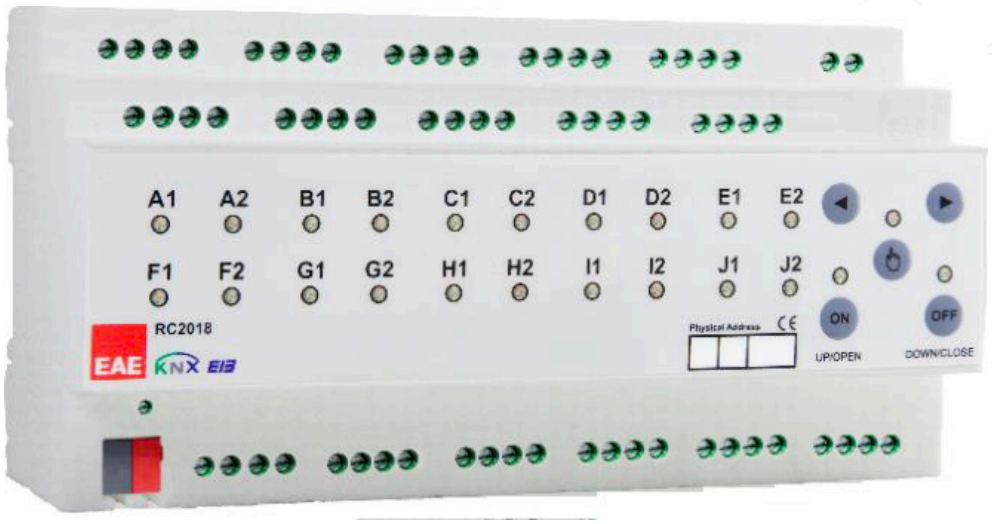
R1.0

Datasheet RCUXXYY

EAE KNX Room Control Unit

General Features



Available versions of EAE RCU Series:

RCU2018	RCU2000
RCU2016	RCU2000
RCU1212	RCU1200
RCU0808	RCU0800

Note: RCUXXYY 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.

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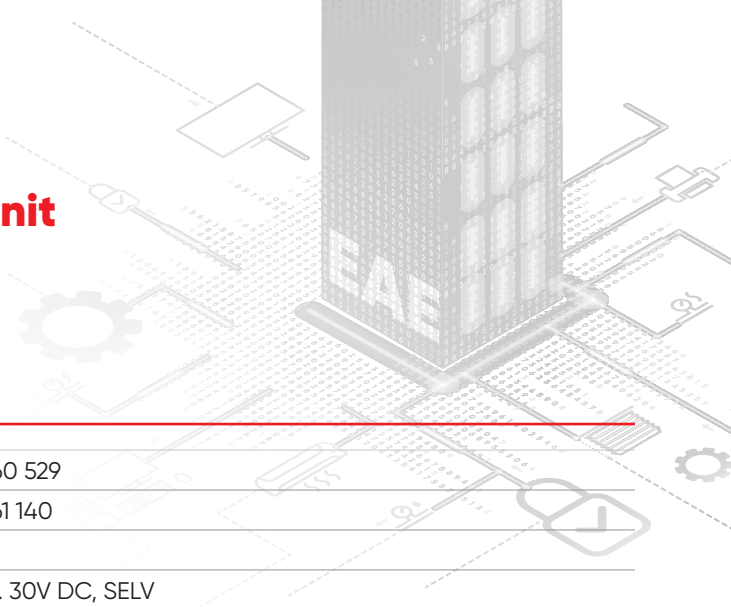
EAE KNX Room Control Unit



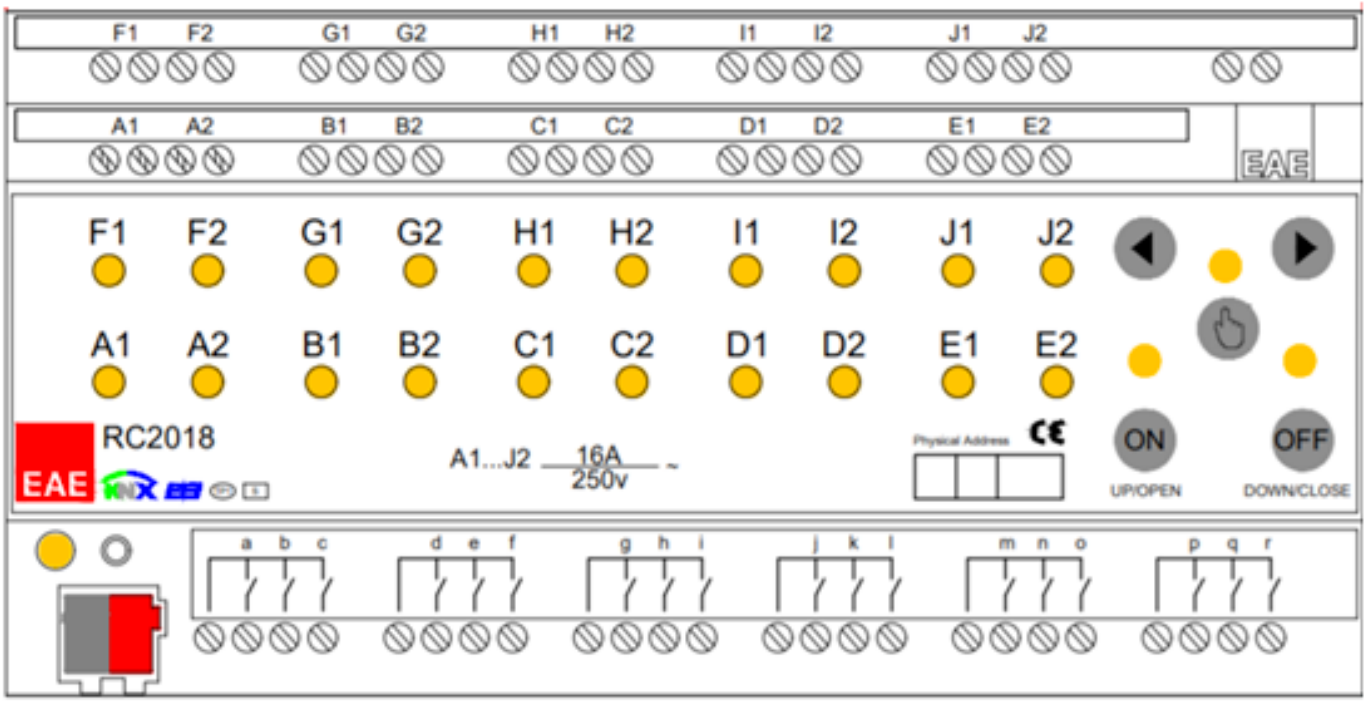
Technical Data RCU Series

Protection Grade	IP 20	EN 60 529
Safety Class	II	EN 61 140
Power Supply	Voltage	21V... 30V DC, SELV
	Current consumption	≤ 10 mA
External Supply	-	-
Connections	Screw terminals	0,5...3,31 mm² solid and stranded wire 0,5...3,31 mm² stranded wire with ferrule
	Max tightening torque	0.5 Nm
	KNX	Bus connect terminal
Output	Number	XX output
	Switching voltage	250 V AC; 50/60 Hz
	Switching current 250 V AC Switching current 250 V AC, capacitive loads	16A / AC 1 16A (200µF)
	Maximum switching power	4000 VA
	Mechanical life	> 1 x 106
Type of load	Incandescent lamp	4000 W
	Halogen lamp	4000 W
	Inductive loads, transformer	2000 W
	Electronic drivers	1500 W
Type of contact	Potential-free, bistable, isolated	
Input	Number	YY binary inputs
	Scanning voltage	5 V
	Current	1 mA
	Cable length	< 300 m
Installation	35mm mounting rail	EN 60 715
Operating Elements	LED (red) and button	For physical address
Temperature Range	Ambient	-5° C + 45° C
	Storage	-25° C + 55° C
Humidity	max. air humidity	85 % no moisture condensation
Dimensions		66 x W x 90mm
	Width W in mm	180 mm
	Width W in units (18 mm modules)	10 units
Weight	0,65 kg	
Material	Plastic, polycarbonate, colour grey	
CE	In accordance with the EMC guideline and low voltage	

Datasheet RCUXXYY

EAE KNX Room Control Unit

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. 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

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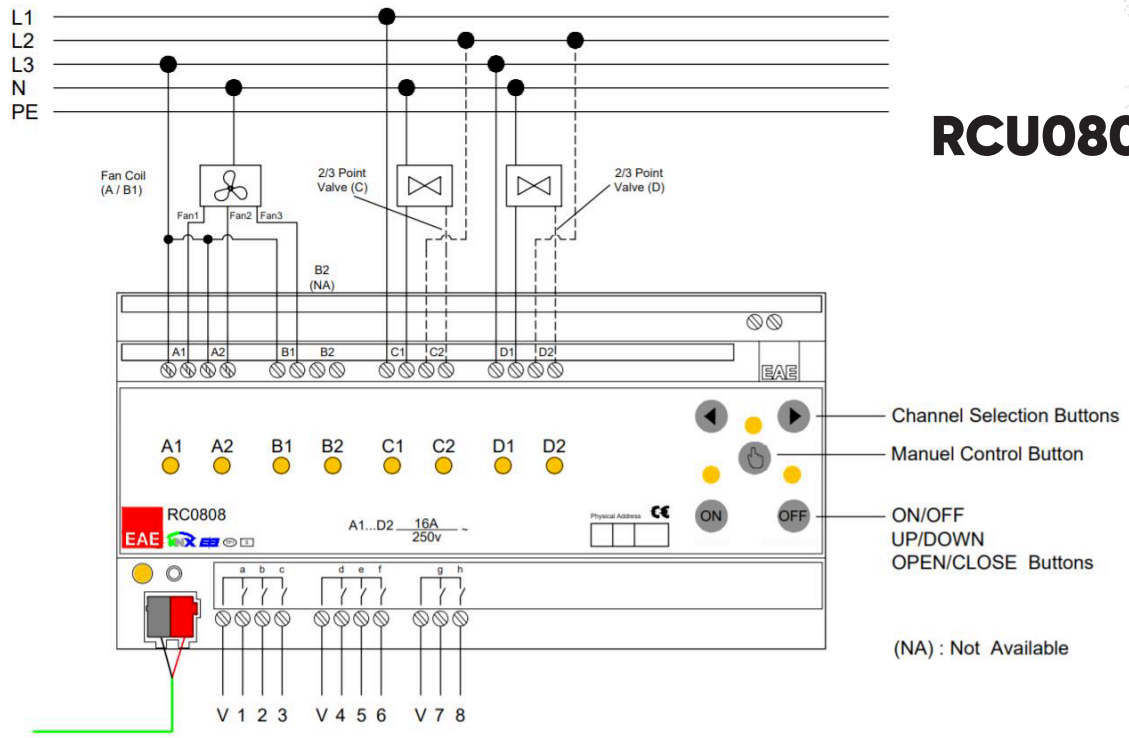
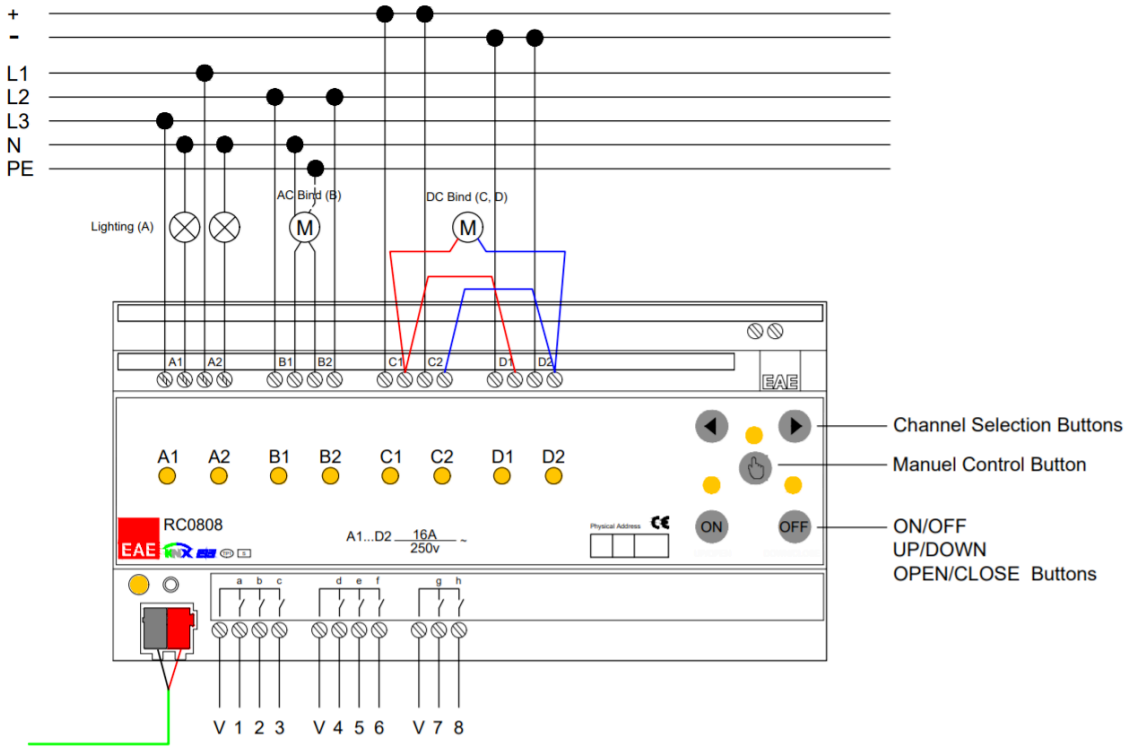
EAE KNX Room Control Unit

Connections



RCU0808

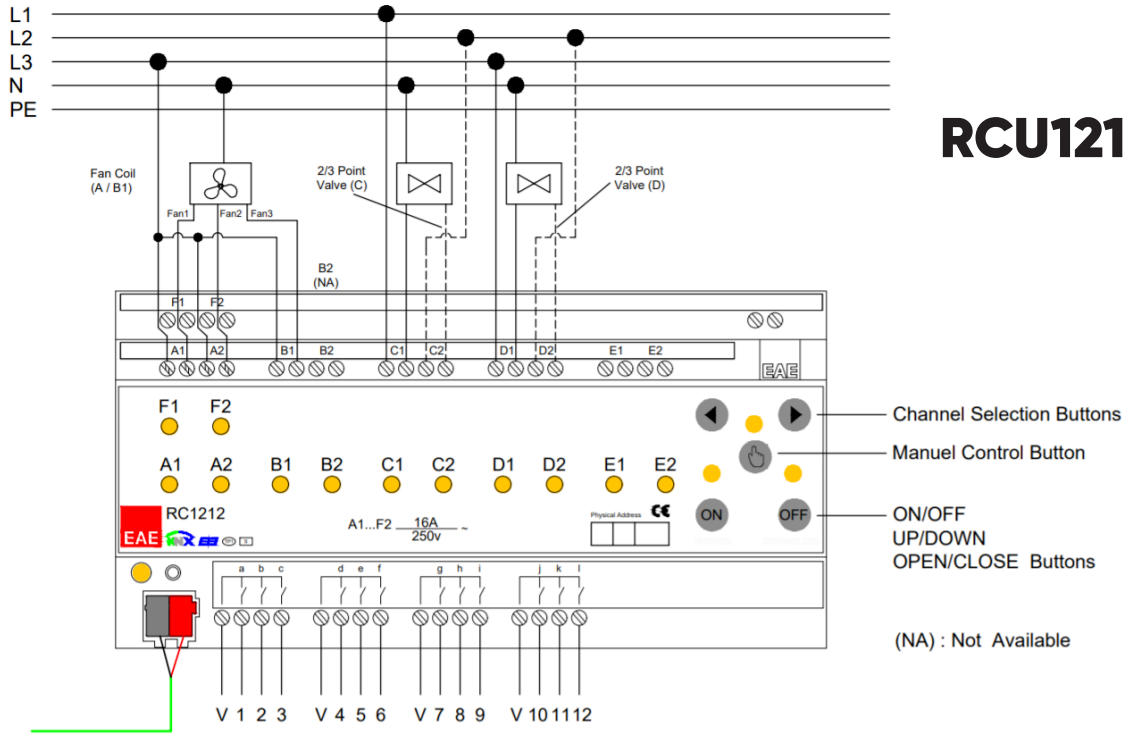
Connections 1



Connections 2

Datasheet RCUXXYY
EAE KNX Room Control Unit

Connections



RCU1212

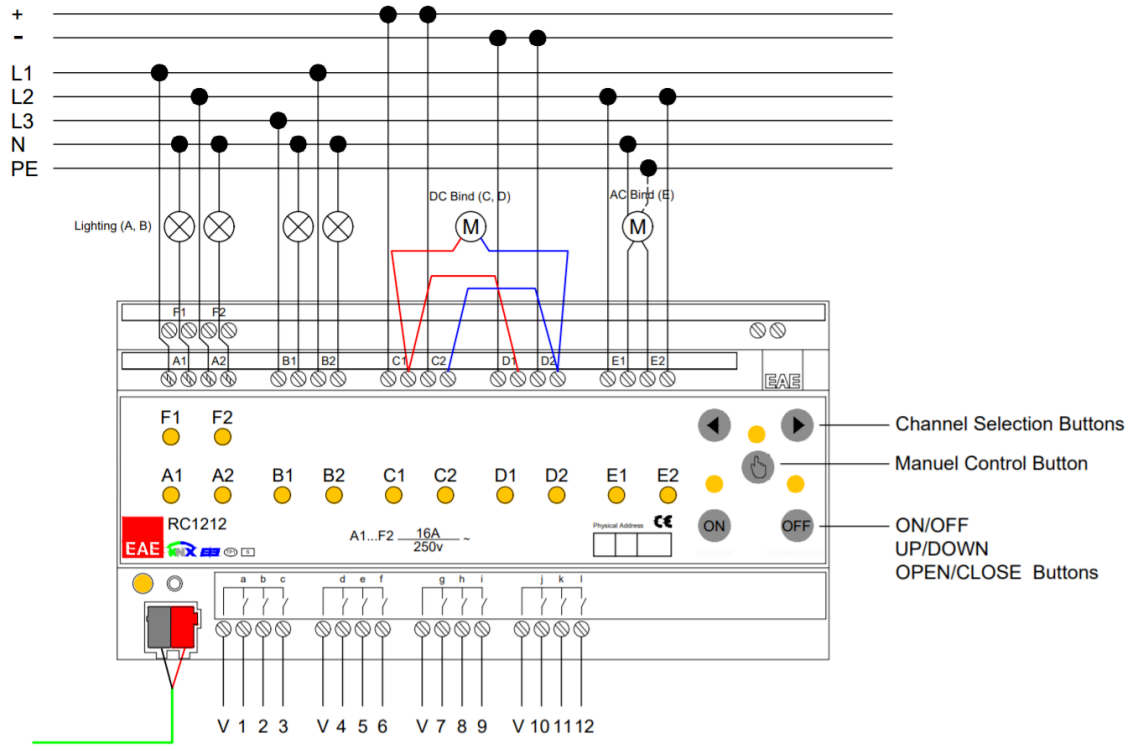
Channel Selection Buttons

Manuel Control Button

ON/OFF
UP/DOWN
OPEN/CLOSE Buttons

(NA) : Not Available

Connections 3



Channel Selection Buttons

Manuel Control Button

ON/OFF
UP/DOWN
OPEN/CLOSE Buttons

Connections 4

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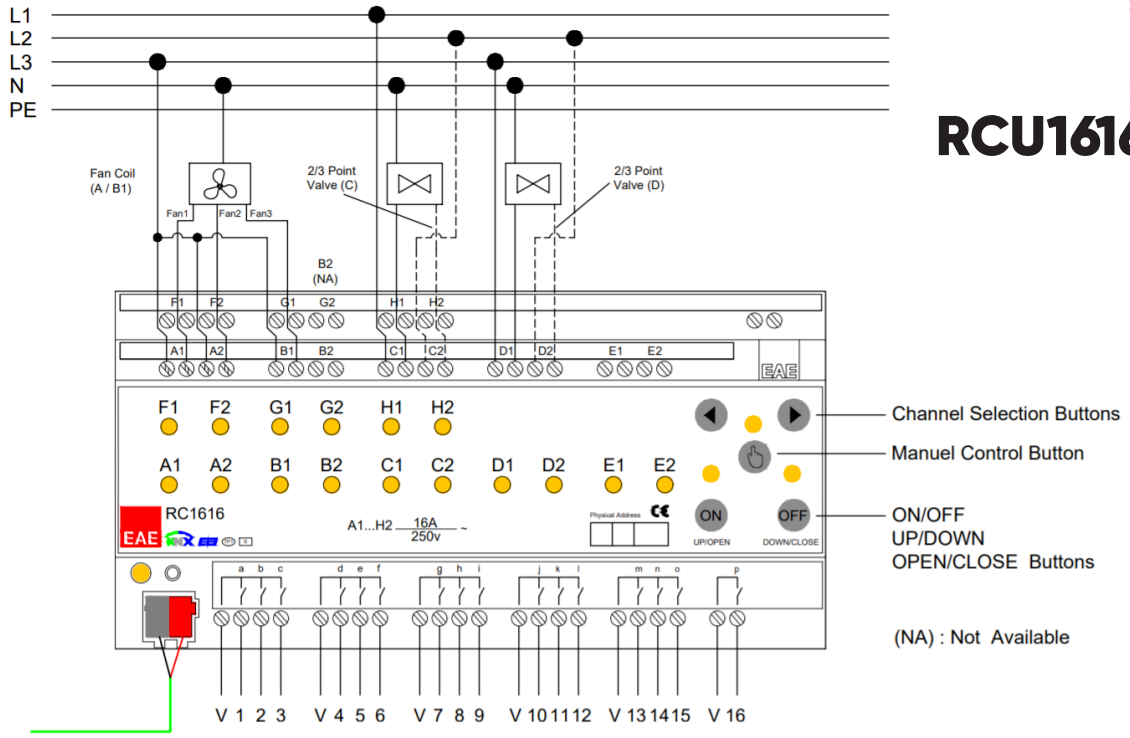
EAE KNX Room Control Unit

Connections



RCU1616

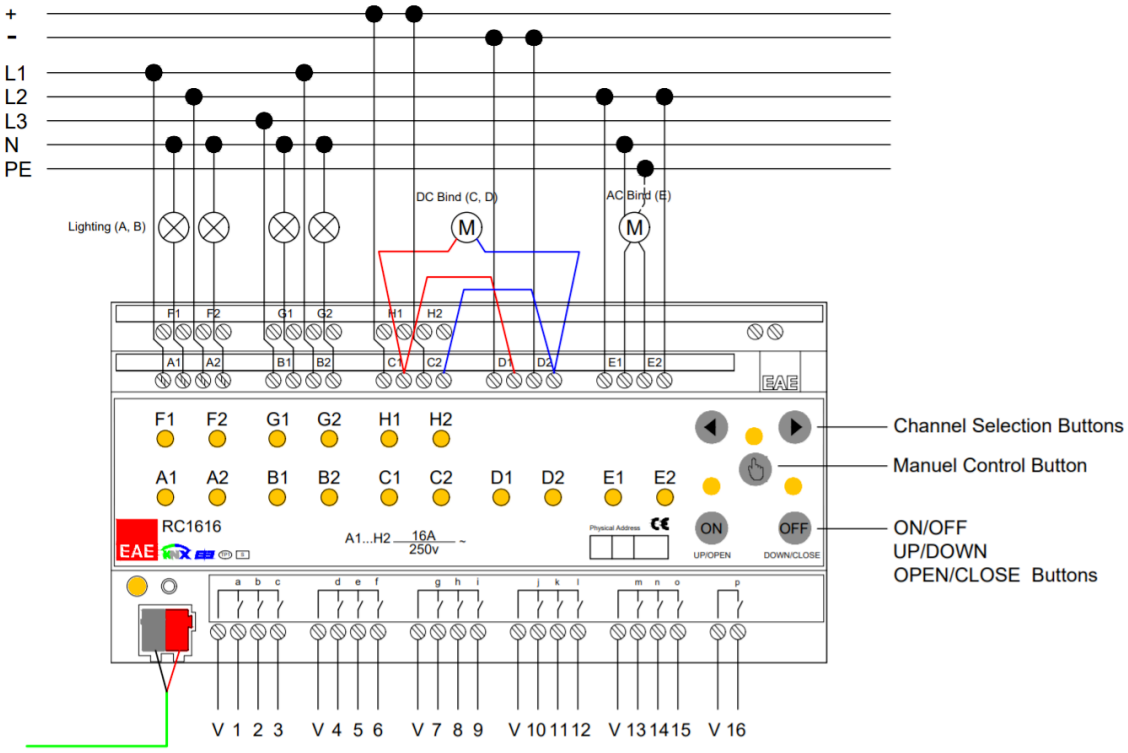
Channel Selection Buttons

Manuel Control Button

ON/OFF
UP/DOWN
OPEN/CLOSE Buttons

(NA) : Not Available

Connections 5



Channel Selection Buttons

Manuel Control Button

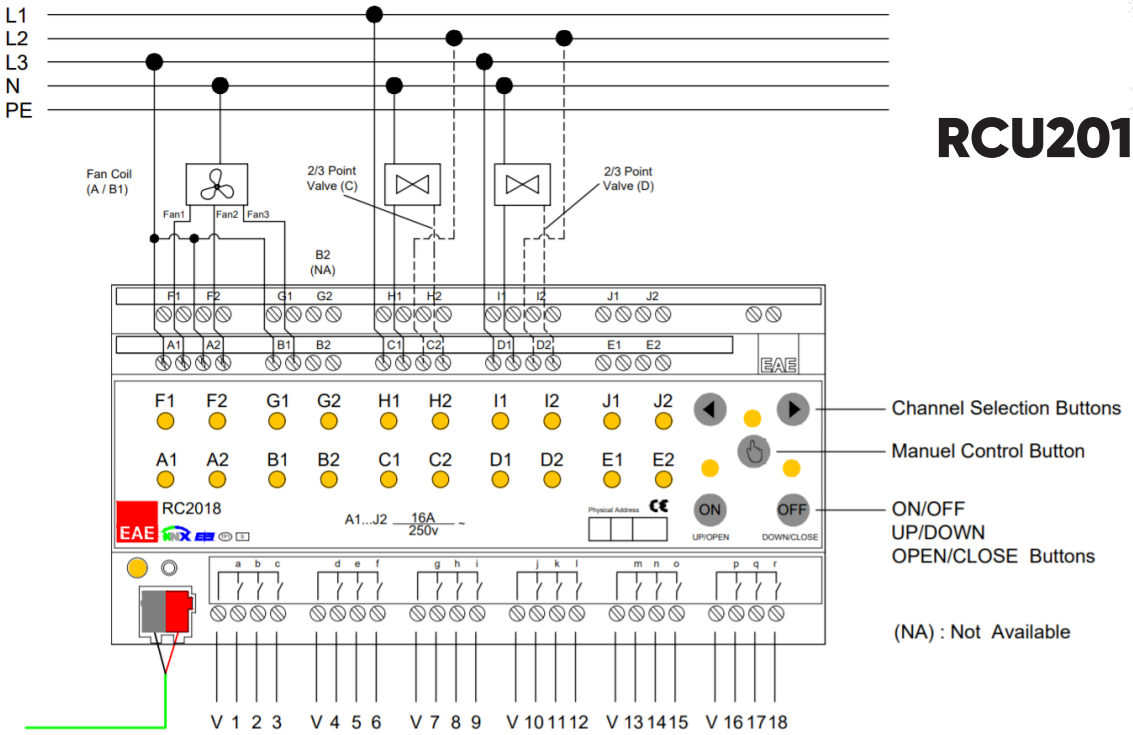
ON/OFF
UP/DOWN
OPEN/CLOSE Buttons

Connections 6

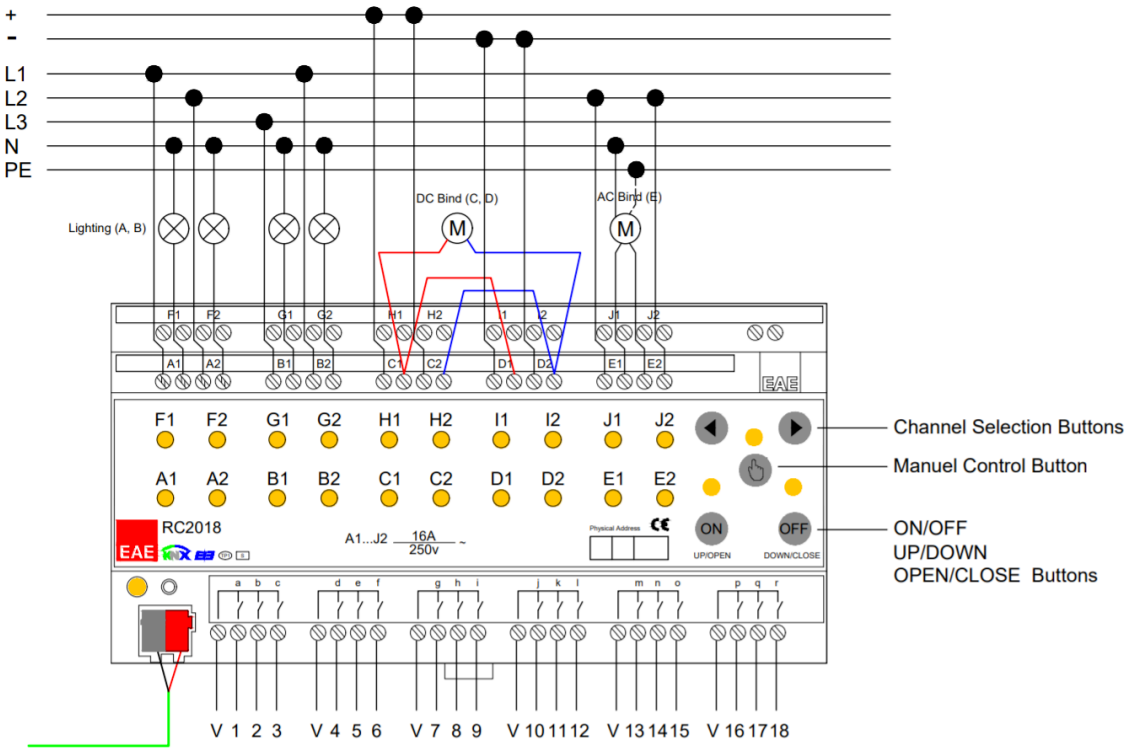
Datasheet RCUXXYY
EAE KNX Room Control Unit

Connections

RCU2018



Connections 7



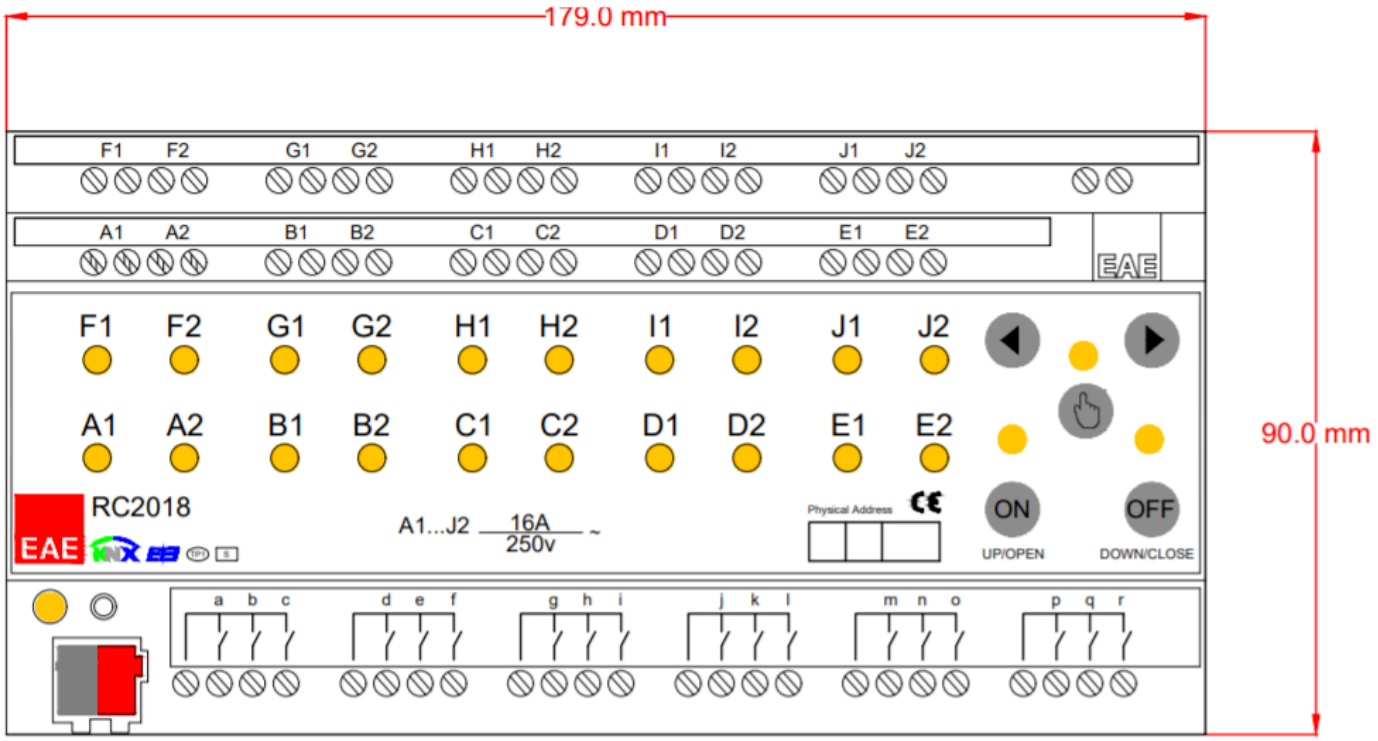
Connections 8

Datasheet RCUXXYY

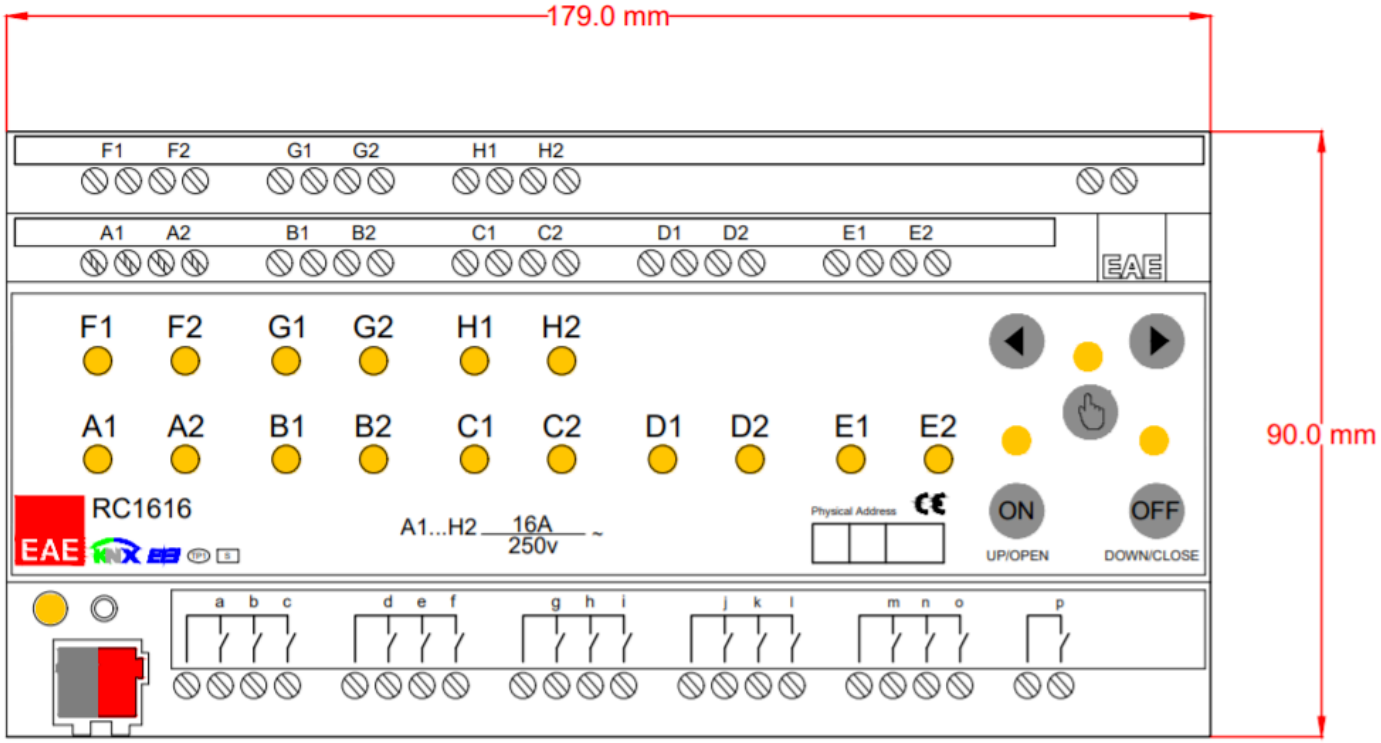
EAE KNX Room Control Unit

Technical Drawings RCUXXYY

RCU2018



RCU1616



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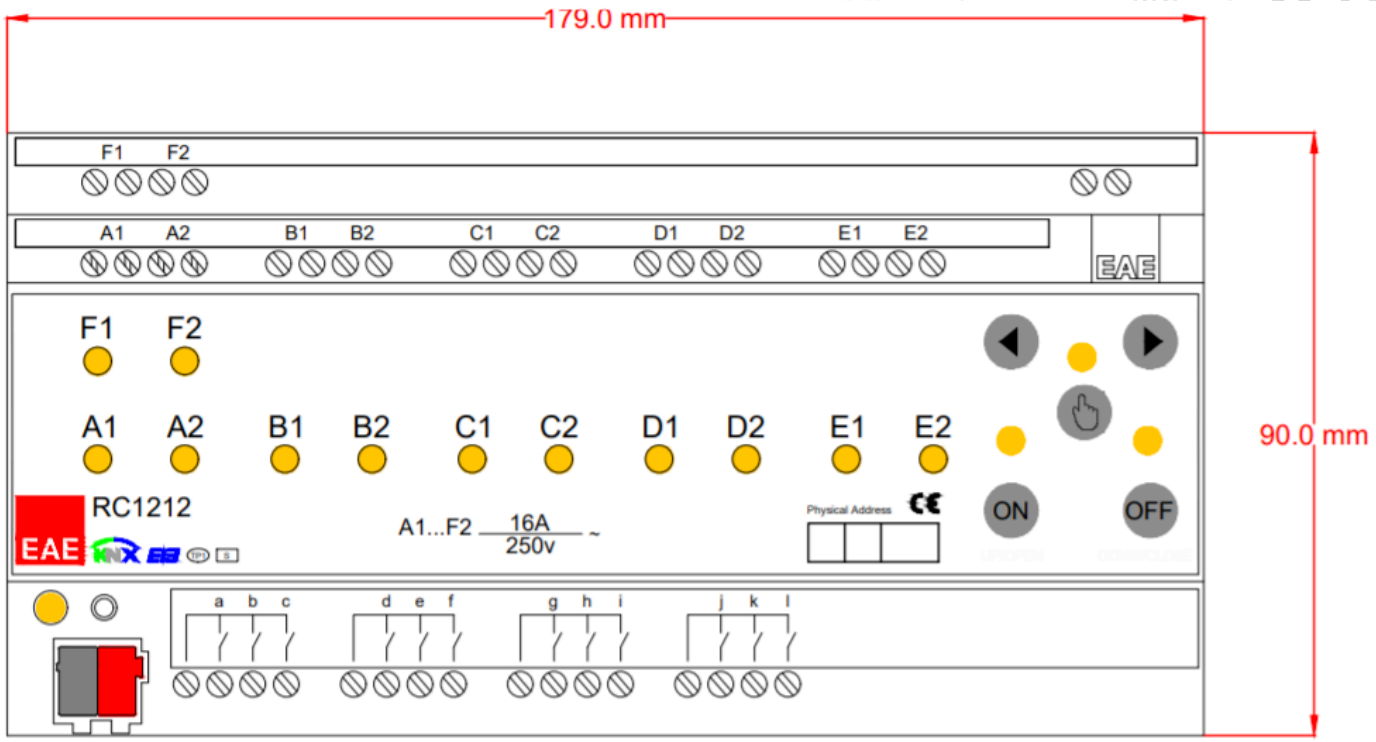
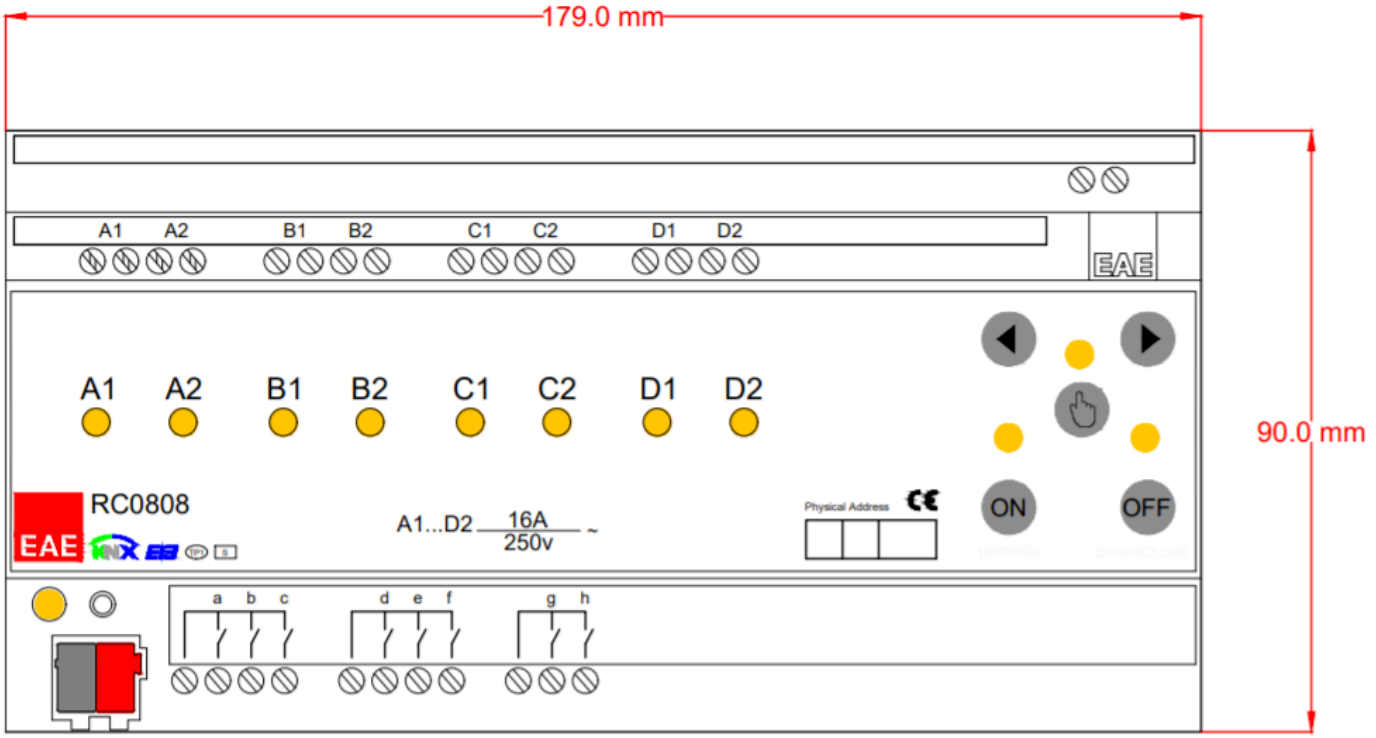
EAE KNX Room Control Unit

Technical Drawings RCUXXYY

RCU1212



RCU0808



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EAE KNX Room Control Unit

Scale Dimensions RCUXXYY