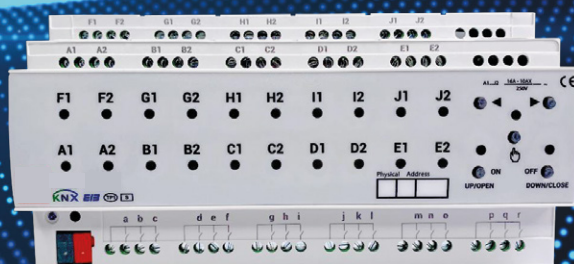


RCU Series

KNX Room Control Unit

1
0
4
5
8
1
1



Overview

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



RCU Series

KNX Room Control Unit

Specification

Model	RCU Series
Supply Voltage	21V... 30V DC, SELV
Current consumption	≤ 10 mA
Screw terminals	0,5...3,31 mm ² solid and stranded wire 0,5...3,31 mm ² stranded wire with ferrule
Max tightening torque	0.5 Nm
KNX	Bus connect terminal
Number	XX output
Switching voltage	250 V AC; 50/60 Hz
Switching current 250 V AC	16A / AC 1 16A (200μF)
Maximum switching power	4000 VA
Mechanical life	> 1 x 10 ⁶
Incandescent lamp	4000 W
Halogen lamp	4000 W
Inductive loads, transformer	2000 W
Electronic drivers	1500 W
Scanning voltage	5 V
Current	1 mA
Cable length	< 300 m
35mm mounting rail	EN 60 715

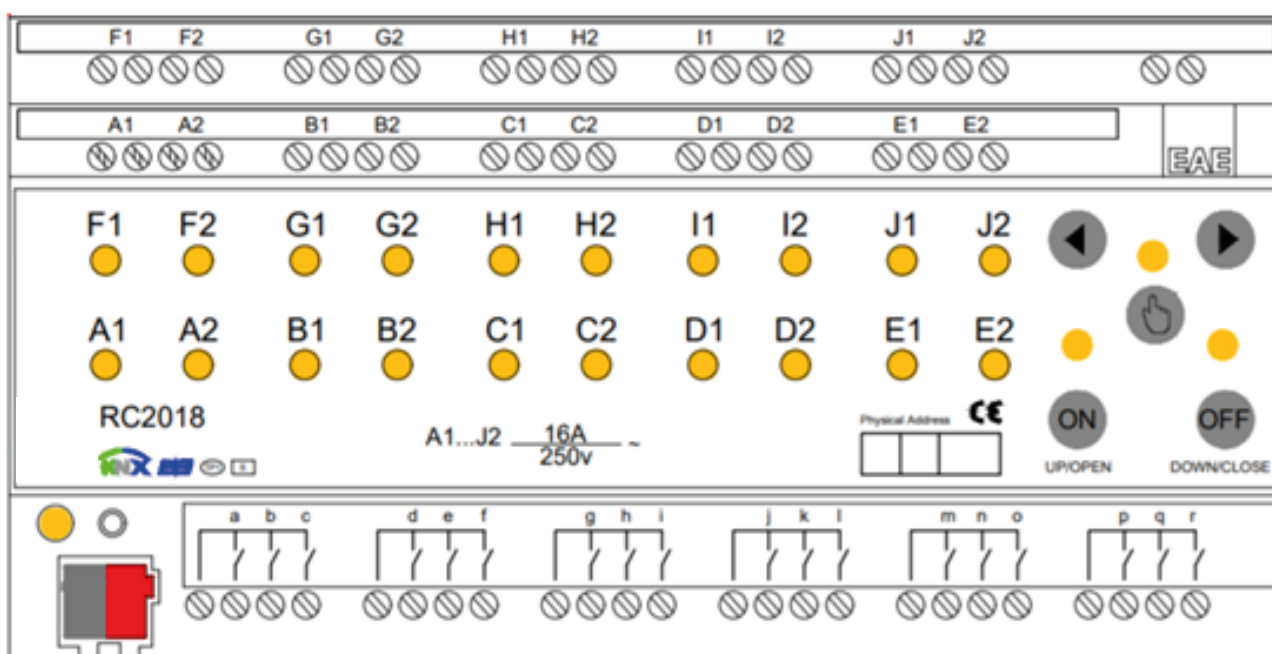
RCU Series

KNX Room Control Unit

Specification

Model	RCU Series
Ambient Temperature	-5° C + 45° C
Storage Temperature	-25° C + 55° C
Humidity	85 % no moisture condensation
Dimensions	66 x W x 90mm
Weight	0,65 kg
CE	In accordance with the EMC guideline and low voltage

Grouping Topology Visual



RCU Series

KNX Room Control Unit

	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;

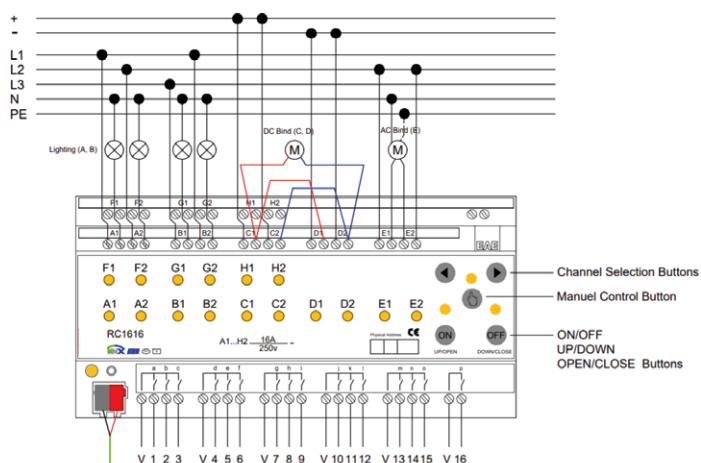
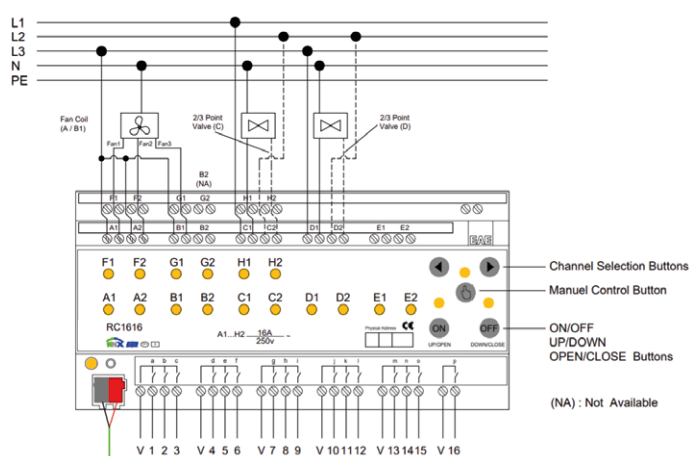
- Channels can be used individually, in example: A1 & A2 can be used as a switch for lighting and B1 & B2 can be used as an AC Blind etc. as shown with **red coloured** drawings in above visual

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

RCU1616

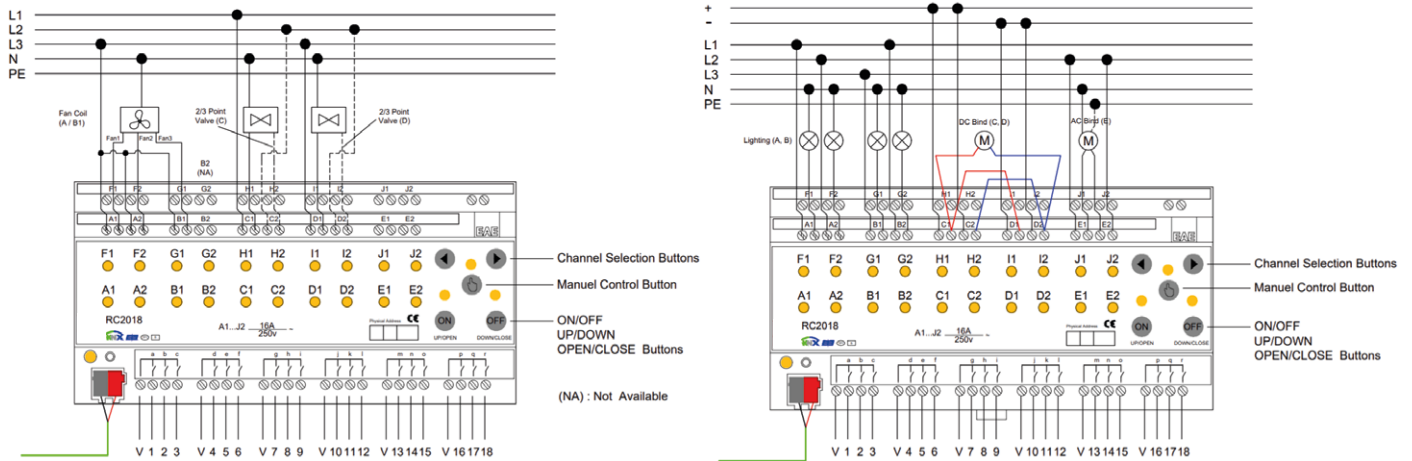


RCU Series

KNX Room Control Unit

Connection Example

RCU2018



Drawings

