ABB i-bus® KNX

Room Controller, Basis Device for 4 Modules, SM, RC/A 4.2, 2CDG 110 104 R0011

2CDC 073 075 S0009

The Room Controller Basis Device RC/A 4.2 can accept up to 4 plug-in modules. It controls their function and communicates as a bus device via the ABB i-bus® KNX.

Any module type can be plugged into every module slot.

The inserted module is detected automatically and linked with the internal supply voltage and incoming mains supply if necessary.

The mains supply is connected to the device using a single phase (L, N and PE).

The manual operation facility enables an immediate function test even when bus voltage is not applied.

Technical data

Supply / Incoming supply	Voltage range	85…265 V AC, 50/60 Hz
	Internal power consumption	Max. 3 W (without modules)
Bus connection	ABB i-bus® KNX	
	Bus current consumption	< 10 mA
Module slots	Number	4 (M1... M4) for insertion of the required module types
Operating and display elements	LED red and button	For assignment of the physical address
	4 yellow LEDs and push buttons	For status display and manual operation of the module function
	1 module selector switch and 4 LEDs	For selecting the module slot to be operated
Connections	Mains supply	3-pole, plug-in screw terminals
		Conductor cross-section: 0.5…4.0 mm²
	KNX	2-pole, plug-in screw terminals
Enclosure	IP 54	Compliant to EN 60529
Temperature range	Operation	-20 °C…45 °C
	Storage	-25 °C…55 °C
	Transport	-25 °C…70 °C
Ambient conditions	Max. humidity	93 %, no condensation allowed
Design	Type of installation	Surface mounted device, screw fixing
	Housing/colour	Plastic, grey, halogen free
	Dimensions (H x W x D)	200 x 275 x 50 mm
	Weight	0.900 kg
Approvals	KNX to EN 50 090-1, -2	Certification
CE mark	In accordance with the EMC guideline and low voltage guideline	

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Application program	Maximum number of communication objects	Maximum number of group addresses	Maximum number of associations
Room Controller modular 4f2/1.0	125	254	255

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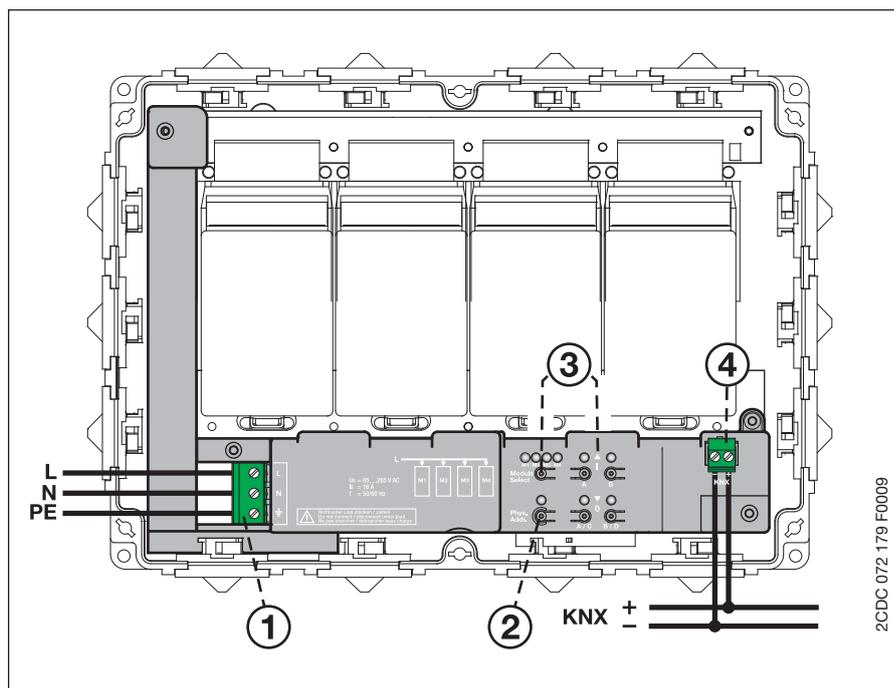| Note |
|---|
| For a detailed description of the application program see "Room Controller Basis Devices, RC/A x.x" product manual. It is available free-of-charge at www.abb.com/knx. |

Programming requires ETS3.0 or higher.

If ETS3 is used, a *.VD3 or higher type file must be imported.
The application program is available in the ETS2 / ETS3 at *ABB*/*Room auto-mation*/*Room Controller.*

The devices do not support the closing function of a BA password or a *BCU code* (ETS3) that can assign the devices using the ETS.
This function has no effect on the device. Data can still be read and programmed.

Connection schematic

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1   **Incoming supply and power supply**
     The mains supply is a single phase via a screw terminal with plug-in connection
     (50/60 Hz). It is then routed to the modules. The internal power supply for the
     Room Controller and the modules is generated from the mains supply.
     The device is ready for operation after connecting the mains supply.

2   **Programming button and LED**
     Please note that the programming button and LED only function when
     the supply voltage is connected.
     Background: The device is not supplied from the bus, but rather from
     the mains supply.

3   **Manual operation and LED display**
     To operate the module functions manually, the module must first be selected
     via the rotary selector switch (Module Select). The module can then be oper-
     ated via push buttons and the status is displayed via an LED (see section 0 for
     further information).
     If a module is not selected, the state of the bus voltage can be indicated with
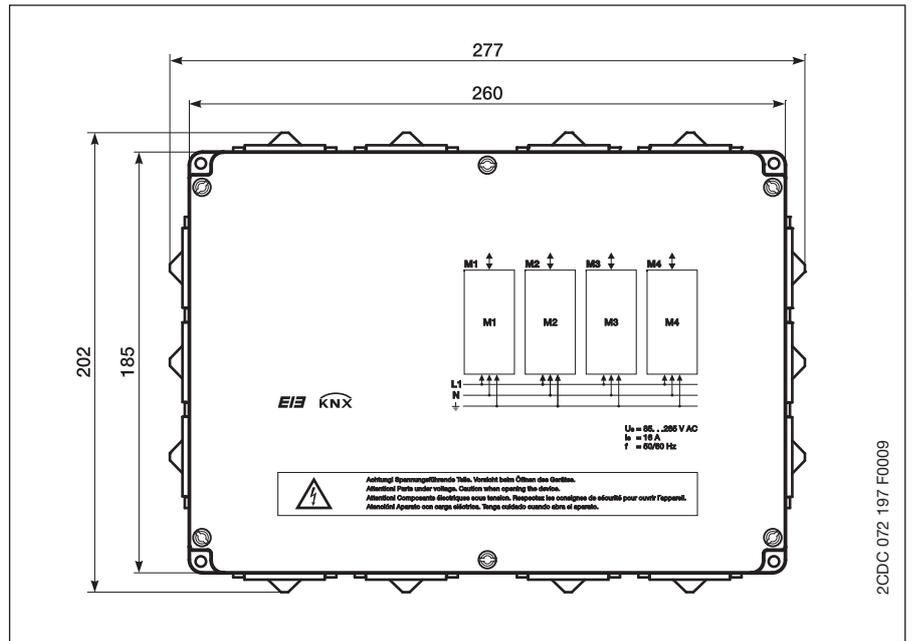   the aid of the push buttons:
     LED permanently on → Bus voltage OK
     LED flashes → Bus voltage not OK

4   **Connection to the ABB i-bus® KNX**

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Dimensional drawing