ABB i-bus® KNX

Room Controller, Basis Device for 8 Modules, SM, RC/A 8.2, 2CDG 110 106 R0011

	The Room Controller Basis Device RC/A 8.2 can accept up to 8 plug-in modules. It controls their function and	The mains supply is connected to the device using a 3-phase supply.	
	communicates as a bus device via the ABB i-bus [®] KNX.	The manual operation facility enables an immediate function test even when bus voltage is not applied.	
2CDC 073 125 F0009	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.		
Technical data			
Incoming supply	3-phase: L1, L2, L3, N and PE	For supplying module slots M1M8	
	Voltage range	85265 V AC	
	Optional incoming supply	24 V DC, for wiring the direct	
		supply to the 24 V DC modules	
Supply	Via phase L1		
	Voltage range	85265 V AC, 50/60 Hz	
Bus connection	Internal power consumption ABB i-bus [®] KNX	Max. 4 W (without modules)	
Bus connection	Bus current consumption	< 10 mA	
Module slots	Number	8 (M1 M8) 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 8 LEDs	For selecting the module slot to be operated	
Connections	Incoming supply	5-pole, plug-in screw terminals Conductor cross-section: 0.54.0 mm ²	
	KNX	2-pole, plug-in screw terminals	
	Optional incoming supply	4-pole, plug-in screw terminals	
		Conductor cross-section:	
		0.22.5 mm ² stranded	
En els sums		0.24.0 mm ² single core	
Enclosure	IP 54	Compliant to EN 60529 -20 °C+45 °C	
Temperature range	Operation Storage	-25 °C+55 °C	
	Transport	-25 °C+70 °C	
Environmental conditions	Max. humidity	93 %, no condensation allowed	
	Operation only in enclosed rooms		
Design	Type of installation	Surface mounted device, screw fixing	
	Housing/colour	Plastic, grey, halogen free	
	Dimensions (H x W x D)	270 x 316 x 50 mm	
	Weight	1.45 kg	
Approvals	KNX to EN 50 090-1, -2	Certification	
CE mark	In accordance with the EMC guideline and		

low voltage guideline

4

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Application program	Maximum number of communication objects	Maximum number of group addresses	Maximum number of associations
Room Controller modular 8f2/1.0	245	254	255

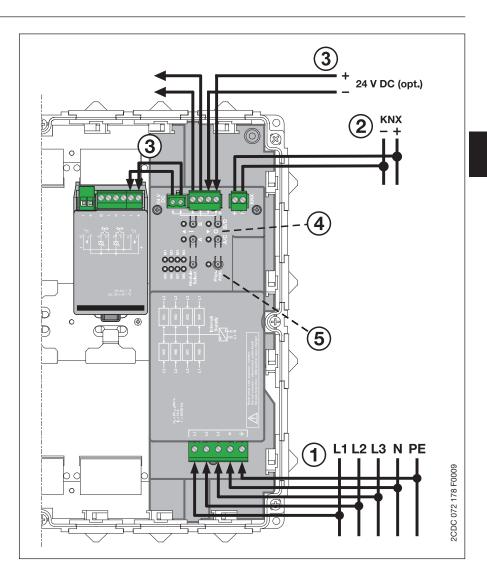
Note	
•	he application program see "Room Controller duct manual. It is available free-of-charge at
Programming requires ETS3.0	or higher.
	her type file must be imported. ailable in the ETS2 / ETS3 at <i>ABB/Room auto-</i>
a BCU code (ETS3) that can a	e closing function of a BA password or ssign the devices using the ETS. the device. Data can still be read and programmed.

4

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4

1 Incoming supply and power supply

The mains supply can be 1-phase, 2-phase or 3-phase (50/60 Hz). The internal power supply for the device and the inserted modules is generated from phase L1. The supply is then routed to the modules. Operation on a 3-phase 230/400 V mains supply is permitted.

Multiple connection of the same phase is not allowed, if it is protected by several miniature circuit-breakers (danger of overload of the neutral conductor!).

2 Connection to the ABB i-bus® KNX

3 Additional incoming supply 24 V DC

Some modules, e.g. 24 V DC blind actuators, require a special incoming supply which is connected directly to the modules. To make the wiring simpler, it is possible to connect a 24 V DC supply here which is then led directly along connecting cables to the modules. The connecting cable is supplied with the modules.

The terminals can carry a maximum continuous current of 8 A.

4 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 operated via push buttons and the status is displayed via an LED .

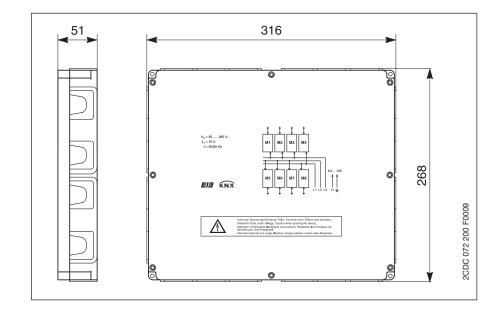
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If a module is not selected, the state of the bus voltage can be indicated with the aid of the push buttons: LED permanently on \rightarrow Bus voltage OK LED flashes \rightarrow Bus voltage not OK

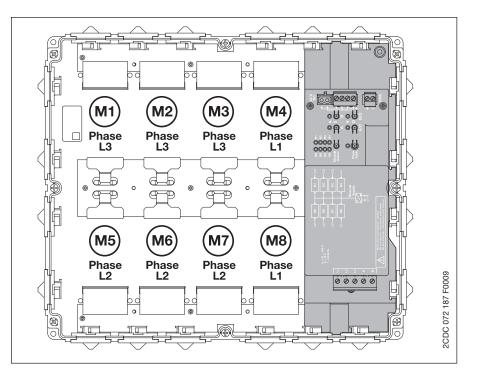
5 Programming button and LED

Please note that the programming button and LED only function when the supply voltage is connected.

Background: To ensure that the power consumption of the bus remains low, the device is not supplied by the bus.



The device has eight module slots which are numbered as M1 to M8 respectively and when inserted, the module is connected to the mains supply voltage provided that the module requires the voltage for operation.



Dimensional drawing

Overview of the module slots

4