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KNX

309 194

1-10 V control module in the **MX** series

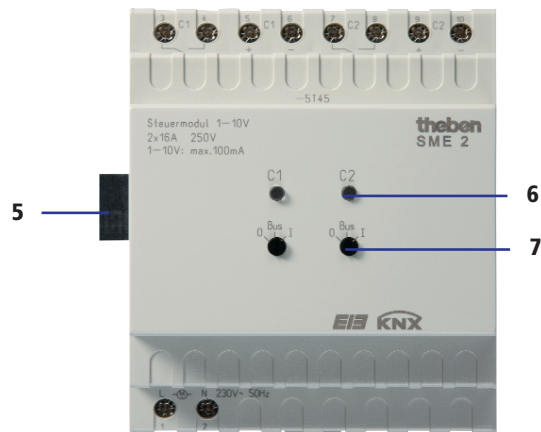
SMG 2 (basic module)

491 0 223

SME 2 (Upgrade module)

491 0 224

SME 2 Upgrade device



1. Designated use

SMG 2 and **SME 2** are rail mounted devices and suitable for operation on KNX.

In the case of **SMG 2** and **SME 2**, a 1–10 V interface enables actuation of dimmable electronic devices (EVG). They have one switch output (relay contact) per channel for switching the electronic series devices and the corresponding 1–10 V control input. The devices are suitable for use in a normal environment.

SMG 2 (Basic device)

- 1 LED On = Dimmer output value > 0
- 2 Manual selector switch: Permanently On/Off or Bus
- 3 Programming key for physical address
- 4 Bus connection: Ensure correct polarity!

SME 2 (Upgrade module)

- 5 Plug as connection between upgrade module and basic device
- 6 LED On = Dimmer output value > 0
- 7 Manual selector switch: Permanently On / Off or Bus

2. Safety



WARNING

Danger of death through electric shock or fire!

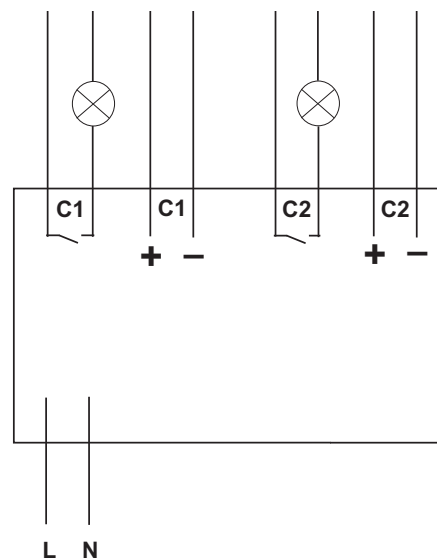
- Installation should only be carried out by professional electrician!

The regulations and instructions in the ZVEI/ ZVEH Handbook must be observed to ensure that the bus lines are installed and the units are commissioned in a professional manner.

Tampering with or making modifications to the device will invalidate the warranty.

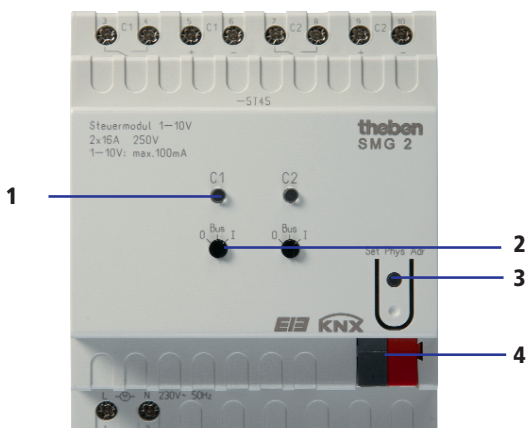
4. Electrical connection

Connection for **SMG 2** and **SME 2**



3. Description

SMG 2 Basic device



5. Response to mains/bus failure

Information in the event of power failure

- If the power fails, the control module will not function.

Information in the event of bus failure

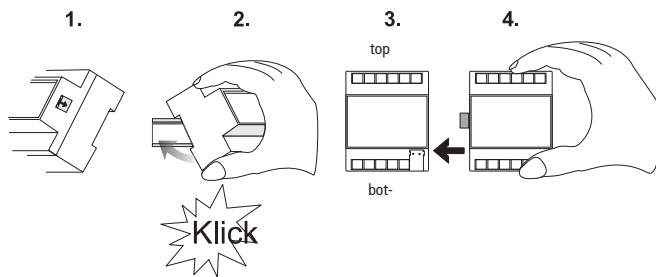
- If a mains supply is available, the control module can be operated using the manual switches should the bus fail.
- The output values for when mains power or the bus is re-stored can be set via the parameters.

6. Installation

1. Open the slide on the right side of the **SMG 2/SME 2** device.
2. Lock the **SMG 2/SME 2** modules on the distributing bus bar and push together.

Connection:

3. Note the correct polarity of the bus connection terminal. Connect the control module as per the wiring diagram in Chapter 4.0 (the bus is connected to **SMG 2**).



7. Start-up

Please refer to the Product Handbook for detailed functional descriptions (also at www.theben.de).

1. Set manual selector switch to "0" ("Off").
2. Program device using the ETS .
3. Set manual selector switch to the required position.

Manual switch permanently – ON / OFF – Bus operation

Manual switch in position:

- The output status is determined by the telegrams on the **bus** .
- The output status is in the permanently **On (100 %)** position.
- The output status is in the permanently **Off (0 %)** position.

- The relays can short-circuit after connection.
- There must be no KNX voltage present when sticking together or separating modules.
- Mains and KNX voltage must be present at the same time, so that the ETS parameters are transferred to the power unit and thus become effective.
- Please refer to the operating instructions of the EVG manufacturer for more information.

8. Technical data

Mains power supply

Operating voltage:	230 V ±10 %
Nominal frequency:	50 Hz
Power consumption:	max. 2 W

Bus power supply

Current consumption KNX:	<10 mA
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Output:

Type of contact:	2 NO contact, floating
Nominal voltage:	230 V AC ±10 % 50 Hz
Switching current:	required minimum load 5 W 16 A/AC-1; 12 A/AC-3 Incandescent lamp load 12 A capacitive switching capacity 140 µF (type-dependent, observe manufacturer's data)

Control input:

Signal voltage:	2 1–10 V
Signal current:	max. 100 mA per channel
Signal duration:	continuous

Connection:

Terminal cross-sections:	solid 0.5 – 4 mm ² , strands with wire end sleeves 0.5 mm ² to 2.5 mm ²
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Permissible ambient temperature: -5 °C to +55 °C

Protection class: II subject to correct installation
Protection rating: IP 20 in accordance with EN
60529

Equipment standard: EN 60669-2-1; EN 60669-1
Housing: 45 x 71 x 60 mm (4TE)

Observe deviating technical data on the rating plate! Technical changes reserved. The devices comply with European Directives 73/23/EEC (low-voltage directives) and 89/336/EEC (EMC Directives).

If the devices are combined with others for use within a system, ensure that the system as a whole does not cause radio interference.

The ETS database can be found under www.theben.de

Please refer to the Handbook for detailed functional descriptions.

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