

theben

KNX

309 399

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

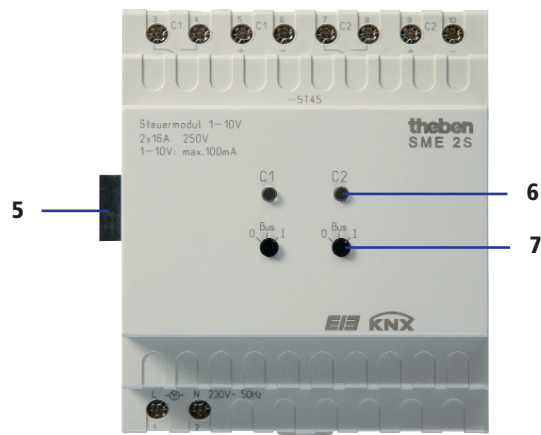
SMG 2 S (basic module)

491 0 273

SME 2 S (Upgrade module)

491 0 274

SME 2 S Upgrade device



1. Designated use

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

In the case of **SMG 2 S** and **SME 2 S**, 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 S (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 S (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!

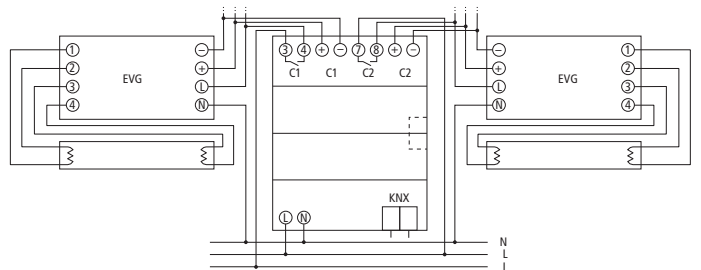
- Installation should only be carried out by professional electrician!

The professional installation of bus lines and commissioning of devices requires compliance with the provisions of EN 50428 for switches or similar installation equipment for use in building construction technology.

Tampering with, or making modifications to, the device invalidates the guarantee.

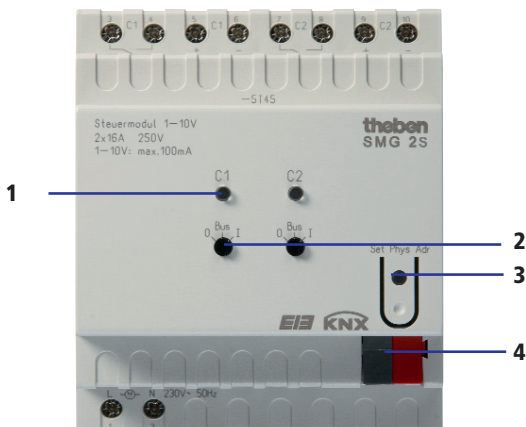
4. Electrical connection

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



3. Description

SMG 2 S 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

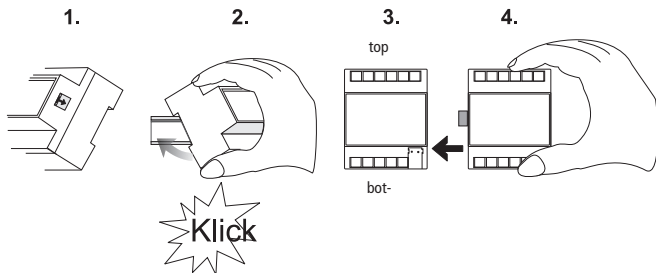
- If a mains supply is available, the control module can be operated using the manual switches should the bus fail.
- The output values for when mains power or the bus is restored can be set via the parameters.

6. Installation

1. Open the slide on the right side of the **SMG 2 S/SME 2 S** device.
2. Lock the **SMG 2 S/SME 2 S** 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 S**).



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 |
|--------------------------|--------|

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 |
|--------------------------|--|

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 KNX for detailed functional descriptions.

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