theben

MIX 2 series switching actuators KNX

309 436 01

RMG 8 S KNX	493 0 220
RME 8 S KNX	493 0 225
RMG 4 I KNX	493 0 210
RME 4 I KNX	493 0 215

1.0 Designated use

KNX actuators of the **MIX 2 series** switch electrical consumers (e.g. lamps).
ETS (Engineering Tool Software) enables application programs to be selected, specific parameters and addresses to be assigned and transferred to the device.
The MIX 2 series is a series of devices comprising basic modules and upgrade modules. Up to two upgrade modules MIX 1 or MIX 2 can be connected to one basic module of this series.

2.0. Safety notes

⚠ WARNING

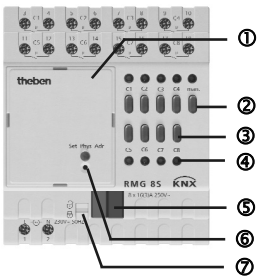
Danger of death through electric shock or fire!

➢ Installation should only be carried out by professional electrician!

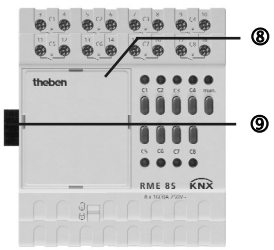
Please note the provisions of EN 50428 for switches or similar installation material for use in building systems technology with regard to the correct installation of bus lines and device start-up procedure!
Tampering with or making modifications to the device will invalidate the guarantee.

3.0 Description

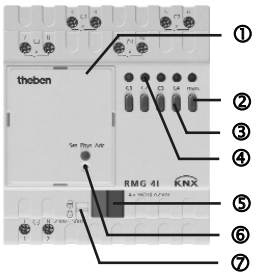
RMG 8 S KNX Basic module



RME 8 S KNX Extension module



RMG 4 I KNX
Basic module with current recognition



RME 4 I KNX
Extension module with Current recognition

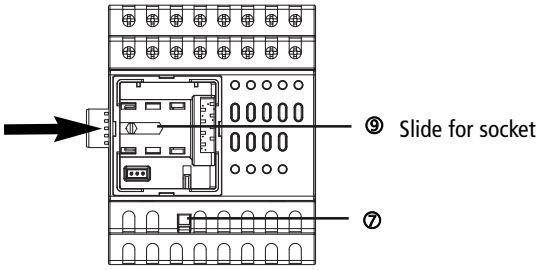
RMG 8 S KNX/RME 8 S KNX/RMG 4 I KNX/RME 4 I KNX

① Bus module KNX
② **man.** (button MANUAL)
③ Channel buttons **C1–C8**
④ LEDs On = Contacts **C1 ... C8 (C1 ... C4)** closed
⑤ Bus connection: Ensure correct polarity!
⑥ Programming key and LED for physical address
⑦ Slide for locking the bus module KNX ① or the cover ⑧
⑧ Cover
⑨ slideable plug between upgrade module and basic module

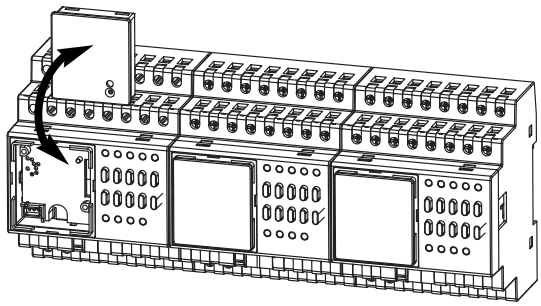
4.0 Installation

Basic module/Extension module

➢ Click the basic module to the distributing bus bar.
➢ Uncover slide ⑦ and remove ⑧ cover from the distributing bus bar.
➢ Click the extension module to the distributing bus bar.
➢ Slide both modules **tightly** together.



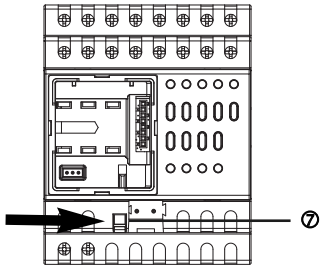
➢ Push slide ⑨ to the left.
➢ Reattach cover.
➢ Resecure cover to slide ⑦.



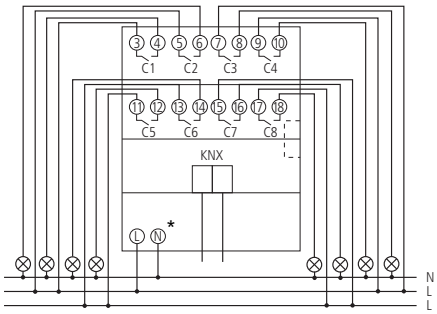
Bus module KNX

- Basic module and bus module KNX can be separated mechanically.
- Manual set-up and use of switching actuators are possible without KNX ① bus module.

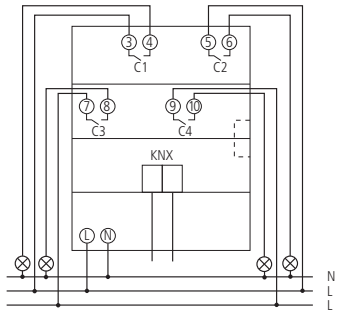
➢ Unlock bus module KNX ① on the basic module ⑦ and remove.



5.0. Electrical connection



RMG 8 S KNX or **RME 8 S KNX** (*only with RMG 8 S KNX)



RMG 4 I KNX or **RME 4 I KNX**

- It is permitted to connect different phases in one device.
- It is possible to connect contactable protective low voltage, if all channels of a module switch protective low voltage.

6.0 Operation

Manual operation on module

(has to be released via ETS)

➢ Press **man.** ② button (LED illuminates).
➢ Press channel ③ buttons to switch.

7.0 Technical data

RMG 8 S KNX/RME 8 S KNX

Operating voltage KNX:	bus voltage ≤ 10 mA
Operating voltage:	110–230 V AC
Frequency:	45–65 Hz
Gap:	<3 mm
Type of contact:	floating NO contact
Switching capacity:	16 A (250 V AC, cos φ = 1) 3 A (250 V AC, cos φ = 0.6)
Switching of different phases:	possible
Switching of SELV voltages:	possible if all channels of a module switch protective low voltage

		GM+2EM	GM+1EM	GM	Status
230 V	max. Power input	5.5 W	3.9 W	2.2 W	all relays on
	Standby	0.5 W	0.4 W	0.3 W	all relays off

Switching capacity

Resistive load:	3680 W

RMG 4 I KNX/RME 4 I KNX

Operating voltage KNX:	bus voltage ≤10 mA
Operating voltage:	110–230 V AC
Frequency:	45–65 Hz
Gap:	<3 mm
Type of contact:	floating NO contact
Switching capacity:	16 A (250 V AC, cos φ = 1) 10 A (250 V AC, cos φ = 0.6)
Switching of different phases:	Possible
Switching of SELV voltages:	possible if all channels of a module switch protective low voltage

		GM+2EM	GM+1EM	GM	Status
230 V	max. Power input	3.6 W	2.6 W	1.5 W	all relays on
	Standby	3.4 W	2.4 W	1.4 W	all relays off

Switching capacity

Resistive load:	3680 W

Ambient temperature:	–5 °C... +45 °C
Protection class:	II in accordance with EN 60730-1 for designated installation
Protection rating:	IP 20 in accordance with EN 60529

Observe deviating technical data on the device rating plate! Technical changes reserved.

The ETS database is available at **www.theben.de**
Please refer to the KNX Handbook for detailed functional descriptions.

Theben AG
Hohenbergstr. 32
72401 Haigerloch
GERMANY
Phone +49 (0) 74 74/6 92 0
Fax +49 (0) 74 74/6 92-150

Service
Telephone +49 (0) 74 74/6 92-369
Fax +49 (0) 74 74/6 92-207
hotline@theben.de

Addresses, telephone numbers etc. at www.theben.de