theben

EIB KNX

309 825

Drive actuators - Series MIX

JMG 4 S (basic device) No. 491 0 250
JME 4 S (upgrade module) No. 491 0 251

1.0 Designated use

The **JMG 4 S** drive actuator is a series device. The actuator can simultaneously control up to 4 drives via its outputs.

ETS (Engineering Tool Software) enables application programs to be selected, specific parameters and addresses to be assigned and transferred to the device. The **JMG 4 S** basic module can be upgraded by a max. of 2 further modules. You can combine the actuator with all devices of the Mix series, e.g.

MIX

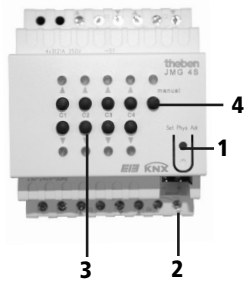
JMG 4 S + JME 4 S + JME 4 S	(12 x blinds)
JMG 4 S + RME 4	(4 x blinds + 4 x switch
DMG 2 + DME 2 + RME 4	(4 x dim, 4 x switch)
DMG 2 + RME 4 + RME 4	(2 x dim, 8 x switch)
RMG 4 S + RME 4 S + DME 2	(8 x switch + 2 x dim)
RMG 4 C-load + DME 2 + DME 2	(4 x C-load + 4 x dim)
DMG 2 + DME 2 + DME 2	(6 x dim)

2.0. Safety notes

In order to prevent any danger of fire or risk of electric shock, the unit may only be installed and connected by a qualified electrician with EIB knowledge, in compliance with national regulations and the ZVEI/ZVEH EIB Handbook.

3.0 Description

JMG 4 S basic device



JME 4 S upgrade module

1 **Set Phys Adr** Programming button and LED for physical address
2 Bus connection (Ensure correct polarity!)
3 Buttons (**UP**, **DOWN** and **STOP**) or (**ON** and **OFF**)
4 LED and **manual button**
5 Interface from upgrade module
6 **LED** shows the switching status of the relevant relay

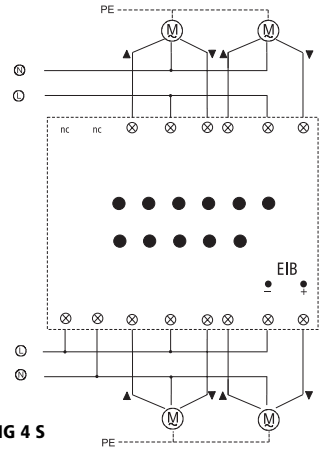
In **manual mode**, the LED lights up and all bus messages that are not safety relevant are disabled.
This means that only the safety commands (to obj. 64 ... 66) are still executed.

The manual LED is on if no bus voltage is present.
The manual LED flashes if

- there is no bus voltage present and the button is pressed manually.
- a channel button ▲▼ (Up or Down) is pressed, and this channel does not execute the command because the device is in safety mode.

4.0. Electrical connection

Connection for blinds actuator



JMG 4 S

5.0 Response to mains/bus failure

Information in the event of power failure
If the mains power should fail, all relays drop out, irrespective of the software configuration. This means that the power circuit is interrupted.

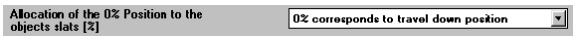
Information for bus failure only
If a mains supply is available, the relays can be switched using the buttons on the device in the event of bus failure.

6.0 Start-up

Please refer to the Handbook for detailed functional descriptions.

Determining the complete slat turn for blinds

Set the parameters on the ETS page "Drives General".



Move down the blinds until the slats can no longer turn.

Start slat turn with message "Slat [%]" at 100 % = FF hex.
The upward movement must stop at the same time as the slat turn.

Check 1:
The slats no longer turn when the Up command is given again.

Check 2:

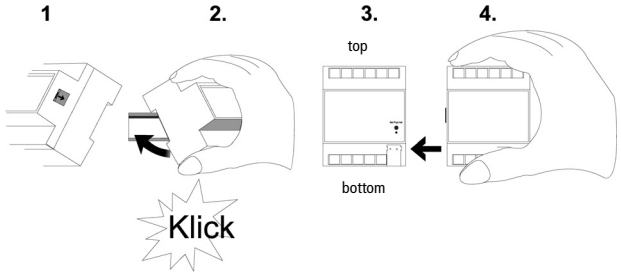
- Move up until the slats no longer turn.
- Start slat turn with message "Slat [%]" at 0 % = 00 hex.
  The downward movement must stop at the same time as the slat turn.
- The slats no longer turn when the down command is given again.

7.0 Upgrading the channels

The **JMG 4 S** drive actuator can be expanded by a max. of 2 upgrade modules.

Move the slide on the right-hand side of the device.

- Lock the module onto the distributing bus bar.
- Push the modules fully together.
- **Connection:**
  Ensure correct polarity of the bus connection terminal.
- Close the drive actuator as shown on the wiring diagram in Chapter 4.0. The bus is connected to the basic device.



8.0 Technical data

	JMG 4 S	JME 4 S
Operating voltage Nominal frequency Power consumption	230 V/240 V ± 10% 50 Hz max. 3 W	
EIB current consumption	≤8 mA	– – –
Contact material Type of contact	AgSnO Potential-free NO contact	
Switching capacity cos φ = 1	3 A (250 V~)	3 A (250 V~)
Fusing	Automatic cut-out - Characteristic B 16 A	
Terminal cross sections	solid: 0.5 mm² (dia. 0.8) to 4 mm² Strand with wire end sleeve 0.5 mm² up to 2.5 mm²	
Permitted ambient temp. Protection class Protection rating Equipment standard	–5 °C ... +45 °C (–5T45) II subject to correct installation IP 20 in accordance with EN 60529 EN 60730	
Housing	45 x 71 x 60 mm (4 TE)	
Mode of operation	Type 1	Type 1

The device is suitable for use in conditions with a normal environment. Observe deviating technical data on the device rating plate! Technical changes reserved. The devices comply with European Directives 73/23/EEC (low-voltage directive) and 89/336/EEC (EMC Directive).

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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