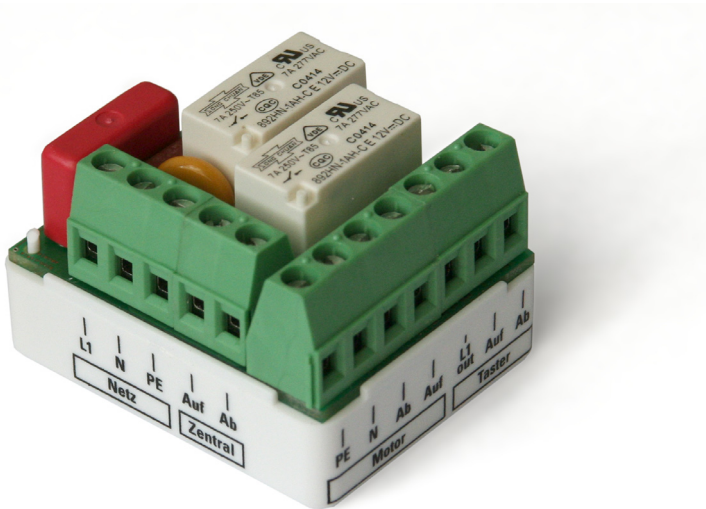




IMSG 230

Motor control unit

Technical specifications and installation instructions



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1. Description

The **Motor control unit IMSG230** enables the automatic and manual control of the drives for blinds or windows. Commands issued at the main input (on/off) have priority. Switches, clocks etc. can be connected there. The Solexa control system for blinds, the Arexa control system for windows and the WS1000 conservatory control system are also suitable as main control stations.

For the manual operation of the drive, dual push-buttons are used.

Functions:

- Use as a **central, group and single controller**
- **Central input** up/down 230 V (with priority) e.g. for switches, Solexa control system, Arexa control system, WS1000 conservatory control systems
- **Manual operation** by connecting an unlocked double push-button.
Push-button timer automatic: Inching mode (press for less than 1 second): Drive inches, for example for positioning slats on shutters.
Drive mode (press for longer than 1 second): Drive travels automatically to the final position
- **Storing a drive position** using the manual switch, can be recalled by pressing the down button for a longer period (3-6 seconds). A position of a shutter or a partially opened window that is often required can thus be set quickly with no effort
- Direction change pause 1 second

2. Operating connected drives using a dual push-button

On the IMSG 230 can be connected to normal unlocked dual push-buttons (up/down) for the manual operation of the drive (input "button") or for central operation (input "central"). The manual operation offers a comfortable timer automatic:

- If a button is pressed for less than 1 second, the drive will move in a step-by-step fashion. This allows, for example, slats to be positioned precisely.
- If a button is held for longer than 1 second, the drive moves to its final position (switching off after 140 seconds of maximum runtime).

A central command always has priority over a movement command from the "button" inputs.

3. Storing a movement position

The IMSG 230 can store the movement position of the connected drive. The position stored (e.g. a frequently used position for a shutter or partial opening of window) can be recalled by pressing the down button for a longer time (3-6 seconds).

Storing a position is carried out as follows:

- Move the drive to the starting/zero position, i.e. close the window, retract the awning or raise the shutter.
- Press the up and down buttons simultaneously for 3 seconds.
- As feedback the drive briefly moves up and down. You are in now programming mode.
- Move to the desired position.
- Store the position by pressing the up and down buttons for 1 second simultaneously.
- As feedback the drive briefly moves up and down.
- With blind slats, now open the slats to the desired angle. For windows and awnings, you can skip this point.
- Store the position by pressing the up and down buttons again for 1 second simultaneously.
- As feedback the drive briefly moves up and down. The storage is complete and the IMMSG 230 is in normal mode again.

Note: As soon as a central command arrives (e.g. because of a wind or rain alarm), the programming mode is interrupted! In this case, please carry out the position storage again when the central command is no longer present.

3.1. Technical specification

Assembly	Installation
Protection category	IP 20
Dimensions	approx. 38 x 47 x 30 (W x H x D, mm)
Weight	approx. 45 g
Ambient temperature	Operation -20...+70 °C, storage -55...+90°C.
Ambient humidity	max. 95% RH, avoid condensation
Operating voltage	230 V AC, 50 Hz
Inputs	<ul style="list-style-type: none"> • Operating voltage (Mains L1/N/PE) • Central commands (central up/down) • On-site button (button L1 out/up/down)
Output	1 x Drive 230 V (PE/N/down/up), each fused at 4 A T

The following norms were consulted in evaluating this product with respect to electro-magnetic compatibility:

EN 60730-1:2000-11 + A11:2002

The product was tested by an accredited EMC laboratory in compliance with the above-named norms.

The product is compliant with the provisions of EU guidelines.

4. Installation and start-up

4.1. Installation notes



Installation, testing, operational start-up and troubleshooting should only be performed by an electrician.



DANGER!

Risk to life from live voltage (mains voltage)!

There are unprotected live components within the device.

- VDE regulations and national regulations are to be followed.
 - Ensure that all lines to be assembled are free of voltage and take precautions against accidental switching on.
 - Do not use the device if it is damaged.
 - Take the device or system out of service and secure it against unintentional use, if it can be assumed, that risk-free operation is no longer guaranteed.
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The device is only to be used for its intended purpose. Any improper modification or failure to follow the operating instructions voids any and all warranty and guarantee claims.

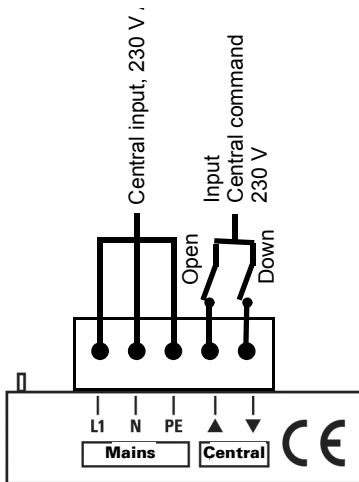
After unpacking the device, check it immediately for possible mechanical damage. If it has been damaged in transport, inform the supplier immediately.

The device may only be used as a fixed-site installation; that means only when assembled and after conclusion of all installation and operational start-up tasks and only in the surroundings designated for it.

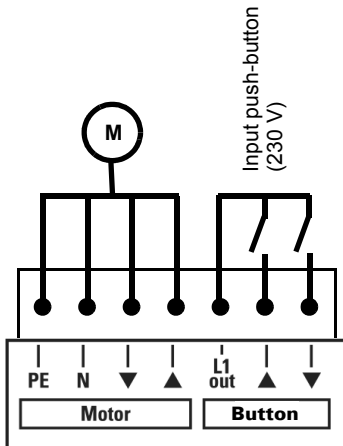
Elsner Elektronik is not liable for any changes in norms and standards which may occur after publication of these operating instructions.

4.2. Connection diagram

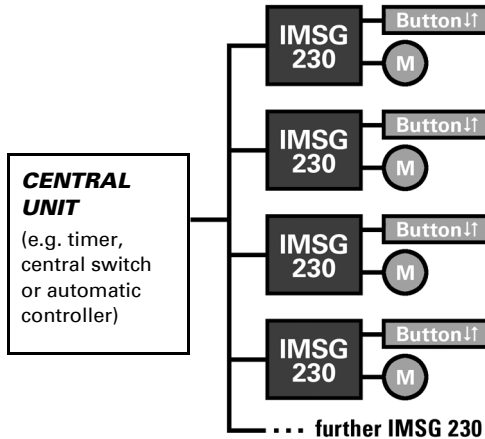
Power supply and central input:



Drive and push-button input:

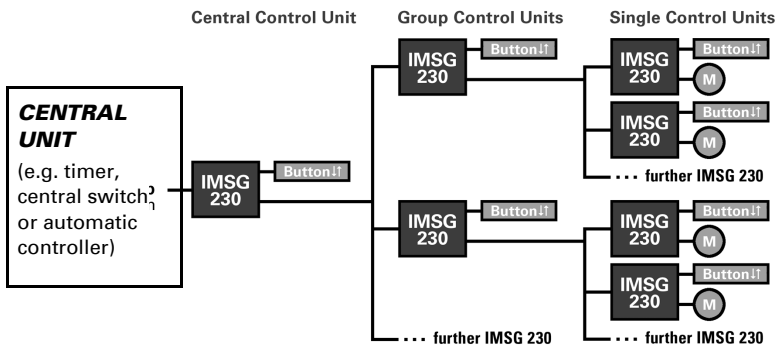


4.3. Example of the structure of a simple central control unit



Units such as the Solexa shading control or Arexa window control are suitable for use as central control units.

4.4. Example of a central control system with groupings



Units such as the Solexa shading control or Arexa window control are suitable for use as central control units.

If multiple power supply lines are used, cut-off relays must, as required, also be used.

4.5. Notes on mounting and commissioning

Device must not be exposed to water (rain). This could result in the electronic being damaged. A relative air humidity of 95% must not be exceeded. Avoid bedewing.

Pay attention to the correct connection. An incorrect connection can lead to damage to the motor control unit or to any electronic device connected to it.