



WGDC-2S

DC Power Adaptor

Technical specifications and installation instructions



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1. Description

The **WGDC-2S Power Adaptor** can be set to an output voltage of 12 volt, 24 volt, or to softstart. The softstart function makes it particularly suitable for the precise regulation of the slat angle of Venetian blinds because the output voltage switches from 12 volt to 24 volt only after approx. 1 second of operation.

The integrated switching relay spans the contacts internally, as long as no control voltage is present. This fixes the connected drives in position.

Functions:

- Set to output voltage 12 V DC, 24 V DC or “softstart”
- Integrated switching relay
- Maximum total output current 2 A, e.g. for parallel operation of four 500 mA direct current motors
- Connection terminals are labelled and pluggable

1.1. Technical specifications

Housing	Plastic
Colour	Grey
Mounting	Surface-mounted
Protection category	IP 54
Dimensions	approx. 160 × 80 × 57 (W × H × D, mm)
Weight	approx. 955 g
Ambient temperature	Operation -40...+70°C, Storage -55...+90°C
Operating voltage	230 V AC / 50 Hz
Outputs	2 x drives, short circuit-proof, stabilised
Output voltage	variable jumpers (12 V DC / 24 V DC)
Output current	total 2 A
Transformer primary fuse	T 1.6 A

The product conforms with the provisions of EU directives.

2. Installation and commissioning



Please check that the motor supports the softstart function before connecting the power supply!

2.1. 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.

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.

2.2. Diagram



Ab ↓ Auf ↑ N PE

Ab ↓ Auf ↑ N PE

Control system

24VDC 24VDC

24VDC 24VDC

Drives/drive groups
with 24V (or 12V)
direct current motors

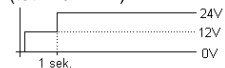
Jumper settings: Output voltages:

12 Volt 2 x 12 Volt (tot. max. 2 A)

• •
• •

Soft 2 x 24 Volt with softstart
(tot. max. 2 A)

• •
• •



24 Volt 2 x 24 Volt (tot. max. 2 A)

• •
• •

24 Volt 24 Volt

2.3. Notes on mounting and commissioning

Do not open the device if water (rain) might ingress: even some drops might damage the electronic system.

Observe the correct connections. Incorrect connections may destroy the sensor or connected electronic devices.

After mounting, remove all transport protection labels.