

Shutter Switch UP 520/11 5WG1 520-2AB11 without Physical external interface 1 x 230V AC / 6A

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Product and Applications Description

The shutter switch UP 520/11 is a switching actuator for the installation in flush-mounting boxes (60mm Ø, 60mm depth, a.s.o.). The box mount has to be covered with a universal-cover (ordering separately). The shutter switch can raise or lower a blind drive and turn the slats open or closed gradually by its volt free contacts. The connection of the load circuit is carried out via screwless connection blocks and the EIB bus line is connected via screwless plug-in connection blocks.

One channel is available for the connection of one shutter drive (motor).

The shutter switch UP 520/11 consists of the device (hardware) and its application program (software) for shutter control.

With the ETS (EIB Tool Software) the application program is selected, its specific parameters and addresses are assigned and downloaded to the shutter switch UP 520/11.

Additional Information

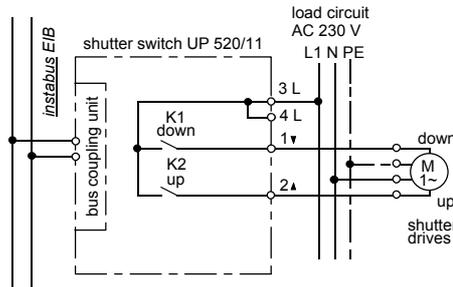
<http://www.siemens.com/gamma>

WARNING

If the shutter switch UP 520/11 is used for shutter drives take care of the following: (otherwise the contacts may be welded)

- The factor and base values of the parameter "Reverse delay" must be combined to establish a time period as given by the blinds manufacturer (usually > 500 ms).
- The parameter "on bus voltage failure" should be set to "maintain actual state" or "stop".

Example of Operation



Technical Specifications

Power supply
via bus line

Outputs

- number: 1 output channel (volt-free contacts)
- rated voltage: AC 230 V, 47 ... 63 Hz
- rated current: 6 A resistive load
- switching current at AC 230 V:
 - 0,01 ... 6 A resistive load
 - tubular motors with auxiliary phase condenser $\leq 14 \mu\text{F}$, max. power 500 VA at 20000 load switching cycles (UP-DOWN-STOP) respectively max. 750 VA at 12000 load switching cycles
 - total maximum load at $\cos\phi = 0,4$; 750 VA
- switching current at DC 24 V:
 - 6 A resistive load,
 - 4 A inductive load (L/R = 7 ms)
- switching characteristic: set in parameter list according to application program
- switching repetition interval: min 150 ms

Connections

- load circuit, physical:
 - strip insulation for 9 ... 10 mm permissible conductor types/cross sections:
 - 0,5 ... 2,5 mm² single core or flexible conductor, 8 mm ultrasonically compacted
 - 0,5 ... 2,5 mm² flexible conductor with terminal pin, crimped on gas tight
 - 0,5 ... 1,5 mm² flexible conductor with connector sleeve
 - 1,0 and 1,5 mm² plain flexible conductor
- load circuit, electrical:
 - plain flexible conductor, min. 1 mm²: current carrying capacity max. 6 A
 - all other conductors, min. 1,5 mm²: current carrying capacity max. 10 A

WARNING

When looping through the L-conductor (connection blocks 3 and 4), take care that the maximum connection current of 16 A (as governed by the maximum permissible printed conductor load) is not exceeded!

- bus line:
 - screwless bus connection block
 - 0,6...0,8 mm Ø single core
 - insulation strip length 5mm

Physical specifications

- dimensions:
 - spacing dimensions (W x H): 44 x 51 mm
 - mounting depth: 40 mm
- weight: approx. 60g

Electrical safety

- protection (according to EN 60529): IP 20

Environmental specifications

- ambient temperature operating: - 5 ... + 45 °C
- ambient temperature non-op.: - 25 ... + 70 °C
- relative humidity (non-condensing): 5 % to 93 %

Location and Function of the Display and Operator Elements

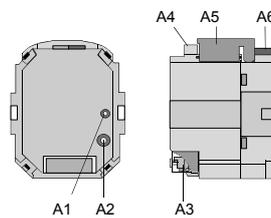


Figure 1: Location of the display and operator elements

- A1 LED for indicating normal operating mode (LED off) and addressing mode (LED on); upon receiving the physical address the device automatically returns to normal operating mode
- A2 Learning button for switching between normal operating mode and addressing mode for receiving the physical address
- A3 Screwless plug-in connection blocks with measuring tap to connect the load circuits
- A4 Clamping slots for anchoring the bus lines
- A5 Snap-on cover for bus line and single bus wires
- A6 Bus connection block for single core conductors with 0,6...0,8 mm Ø

Installation Instructions

- The device may be used for permanent interior installations in dry locations within flush-mounting boxes.

WARNING

- The device must be mounted and commissioned by an authorised electrician.
- A safety disconnection of the device must be possible.
- The device may be mounted to switch and socket combination box mounts if VDE-certified devices are used exclusively.
- The prevailing safety rules must be heeded.
- The device must not be opened.
- For planning and construction of electric installations, the relevant guidelines, regulations and standards of the respective country are to be considered.

Mounting and Wiring

General description

The shutter switch UP 520/11 is built into box mounts (60mm Ø, depth 60mm, a.s.o.). The box mount has to be covered with a universal-cover (ordering separately), which is screwed upon the box mount. The shutter switch is connected to the bus line via the bus terminal block 193 (plug-in connection blocks without screws for single core conductors).

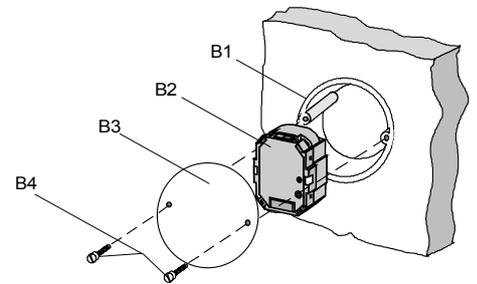


Figure 2: Mounting the shutter switch UP 520/11

- B1 box mount
- B2 shutter switch UP 520/11
- B3 universal-cover
- B4 mounting screws

Connecting the bus cable (figure 3)

- insert the screw-driver between the cover (C1) and the shutter switch (C2) and lever out the cover.
- Carefully put the screw-driver to the wire-inserting slit of the bus connection block's grey component and pull the bus connection block from the shutter switch.
- Remove approx. 25 - 35mm of the insulation
- Remove the end of the insulation of the conductor and plug him into the bus connection block (red = +, grey = -).
- Slip the bus connection block onto the guide slot of the shutter switch and press the bus connection block down to the stop.
- Press the sheathing of the cut-off insulation bus line projecting >3mm into the open clamping slot.
- Press the single bus wires into the recess below the bus terminal block and snap on the cover (C1).

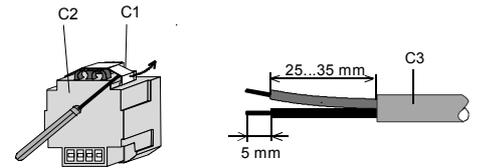


Figure 3: connecting the bus cable

General Notes

- Any faulty devices should be returned to the local Siemens office.
- If you have further questions about the product, please contact our Technical Support :

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 🌐 <http://www.siemens.com/automation/support-request>