SIEMENS

GB CE

Load Switch UP 511 5WG1 511-2AB01

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Product and Applications Description

The load switch UP 511 is a switching actuator which is - due to its small size - suitable for mounting in box mounts in walls or ceilings. It can switch groups of luminaires or other electric loads by its relay output.

The load switch is built into box mounts (60 mm Ø, 60 mm deep) by screw mounting and is connected with the bus line by screwless plug-in blocks.

Appropriate application programs are available for the different tasks the load switch UP 511 can handle; e.g. for direct on and off switching, time switch (non-delayed on, delayed off) or delayed on/off switching.

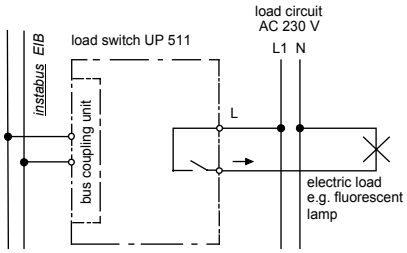
Each of the outputs can be assigned various tasks depending on the application program used, i.e. the load switch UP 511 consists of the device (hardware) and its application programs (software).

With the ETS (*EIB* Tool Software) the application program is selected, its parameters and addresses are assigned appropriately, and downloaded to the load switch UP 511.

Additional Informations

http://www.siemens.de/gamma

Example of Operation



Technical Specifications

Power supply
via the bus line

Outputs
- number: 1 outputs (volt free contacts)
- rated voltage: AC 230 V, 47 ... 63 Hz
- rated current: 0,5...16 A resistive load
- switching current at AC 230 V:
  max. 10 A inductive load, cos φ = 0,6
- switching current at DC:
  - DC 12...50 V: max. 16 A resistive load
  - DC 230 V: max. 1 A resistive load
- switching cycles: max. 10 per minute at nominal load
- switching characteristic: set in parameter list according to application program

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,
  - 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 2,5 mm² plain flexible conductor
- load circuit, electrical:
  - plain flexible conductor, min. 1 mm²: current carrying capacity max. 6 A
  - flexible conductor with terminal pin, crimped on gas tight, min. 1,5 mm²: current carrying capacity max. 10 A
  - all other conductors, min. 1,5 mm²: current carrying capacity max. 16 A
- bus line:
  - screwless bus block
    0,6...0,8 mm Ø single core
    remove approx. 5mm of isolation

Physical specifications
- dimensions: 50 x 50 x 30 mm (W x H x D)
- weight: approx. 55 g

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

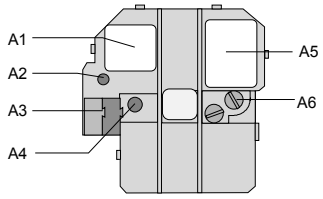


Figure 1: *Location of the display and operator elements*

A1 Label for noting the physical address
A2 LED for indicating normal operate mode (LED off) or addressing mode (LED on); returns to normal operating mode automatically after receiving the physical address
A3 Bus connection block for single core conductors with 0,6...0,8 mm Ø
A4 Learning button for switching between normal operating mode and addressing mode and for receiving the physical address
A5 Type label
A6 Screw blocks for connecting the load circuit

Mounting and Wiring

- The device may be used for permanent interior installations in dry locations within box mounts.

⚠ 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.

General description
The load switch UP 511 is used for various tasks and can be - due to its small size - built into box mounts with a diameter of 60 mm mounted on walls or ceilings (according to DIN 49073 B-design). It is connected to the bus line via the bus connection block 193 (screwless plug-in connection blocks for single core conductors). The relay output and the mains supply are connected via two screw blocks.

Note: Take care that a minimum distance between the low voltage wires and the bus wires of 4 mm is kept when connecting the 230 V mains voltage and the bus voltage.

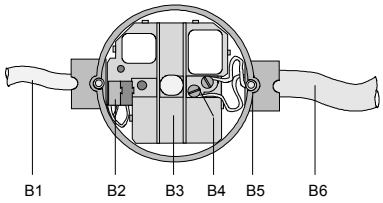


Figure 2: *Mounting the load switch UP 511*

B1 bus line
B2 bus connection blocks
B3 load switch UP 511
B4 connection blocks load circuit
B5 box mount (60 mm Ø according to DIN 49073)
B6 connection line of the load circuit

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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