



#### Dimmer UP 525/11 5WG1 525-2AB11 without physical external interface

### Issued: February 2005

## Product and Applications Description

The dimmer UP 525/11 is a dimming actuator for installation in box mounts (60mm Ø, 60mm depth, a.s.o.). The box mount has to be covered with a universal-cover (ordering separately). 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. The dimmer UP 525/11 can switch and dim incandescent lamps, high voltage halogen lamps or low voltage halogen lamps with intermediate conventional or electronic transformers

Note: The dimmer UP 525/11 is a phase interval operating device.

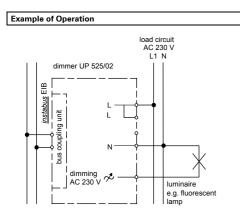
The dimmer UP 525/11 consists of the device (hardware) and

its application programs (software). Several modes are available e.g. switching on and off lowvoltage halogen lamps, increasing and decreasing their light intensity or setting them to a specified light intensity value.

With the ETS (EIB Tool Software) the application program is selected, its parameters and addresses are assigned, and downloaded to the dimmer UP 525/11.

### Additional Information

http://www.siemens.com/gamma



# Technical Specifications

### Power supply

via bus cable and 230 V mains

230 V-Supply connection

- rated voltage: AC 230 V, 50 Hz
- rated current: 1,1 A
- no-load current; approx, 5.5 mA
- no-load power input: approx. 1,3 VA no-load power loss: approx. 0,5 W

Short-circuit protection Electronic protection that switches the device down when it detects a short-circuit. It switches it on every 1 minute and examines whether the short-circuit has been eliminated.

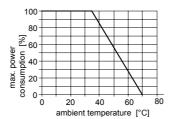
#### **Overload protection**

Electronic protection switching the dimming device down for at least 1 minute on exceeding the maximum operating temperature due to overload. It automatically switches the device on after cooling down setting the actual set-point

### Load output

- number: 1 output
- rated voltage: 230 V AC, 50 Hz rated current: 1,1 A
- maximum power consumption of devices connected at
- 35°C ambient temperature: incandescent lamp: 20...250 W
- high voltage halogen lamps with intermediate electric transformers: 20...250 W
- low voltage halogen lamps with intermediate electric transformers: 20...250 W

maximum power consumption of devices connected in relation to the ambient temperature



# Performance in case of mains voltage failure

The dimmer retrieves the actual switching condition and brightness value saved in the bus coupling system after mains voltage restoration.

### Connections

- load circuit, physical: strip insulation for 9 ... 10 mm
- permissible conductor types/cross sections: 0,5 ... 2,5 mm<sup>2</sup> single core or flexible conductor,
- 8 mm ultrasonically compacted 0,5 ... 2,5 mm<sup>2</sup> flexible conductor with terminal pin,
- crimped on gas tight 0,5 ... 1,5 mm² flexible conductor with connector sleeve
- 1,0 and 1,5 mm<sup>2</sup> plain flexible conductor
- load circuit, electrical:
- plain flexible conductor, min, 1 mm<sup>2</sup>: current carrying capacity max. 6 A flexible conductor with terminal pin,
- crimped on gas tight, min. 1,5 mm<sup>2</sup>
- current carrying capacity max. 10 A all other conductors, min. 1,5 mm<sup>2</sup> 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 10 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 51mm mounting depth: 40mm
- 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 ٠
- relative humidity (non-condensing): 5 % to 93 % •

#### Location and Function of the Display and Operator Elements

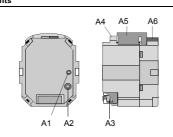


Figure 1: Location of the display and operator elements

- 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 plug-in terminals with trial tap for connecting load circuits
- Α4 clamping slots for anchoring the bus lines
- A5 snap-on cover for bus lines and bus single cores
- 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 box mounts

#### WARNING A

- The device must be mounted and commissioned by an authorised electrician
- A safety disconnection of the device must be possible. On load side there must not be carried out any switching .
- operations. 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 dimmer UP 525/11 is mounted in 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 dimmer is connected to the bus line via the bus terminal block 193 (plug-in connection blocks without screws for single core conductors).

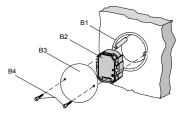


Figure 2: Mounting the dimmer UP 525/11

- B1 box mount
- R2 dimmer UP 525/11
- B3 a universal-cover
- Β4 mounting screws

General Notes

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#### Connecting the bus cable (figure 3)

- insert the screw-driver between the cover (C1) and the dimmer (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 dimmer.
- 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 dimmer 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).

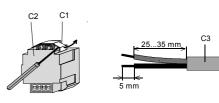


Figure 3: connecting the bus cable

Any faulty devices should be returned to the local

If you have further questions about the product, please

http://www.siemens.com/automation/support-request

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