

Dimmer, 1 Output, 500 W



BH4-D500W-230

- Switching and dimming of lamps
- Negative or positive phase angle dimming
- For DIN-rail mounting
- LED-indications for Alarm, smart-house carrier and output
- Lamp-protective soft-start function
- Channel coding by BGP-COD-BAT
- 4 lighting scenes
- Transmits the status of the dimming output
- Protected against short-circuit and overload
- Soft start/stop
- One output 500 Watt



OUTPUT SPECIFICATIONS

| | | |
|------------------|---|--|
| Outputs | 1 | the load is typically 10% on the transformer and 90% on the lamps. |
| Dimming capacity | 500 W Note: The 500 W is the total load on the output. Do not use the dimmer with traditional transformers. If the installation uses an electronic transformer, | |
| | Rated operational voltage | 230 VAC ±10% |
| | Dimming speed | 3.6 s (5% - 100%) |
| | Response time | 1 Cycle: ≤ 272 ms @ 128 channels) |

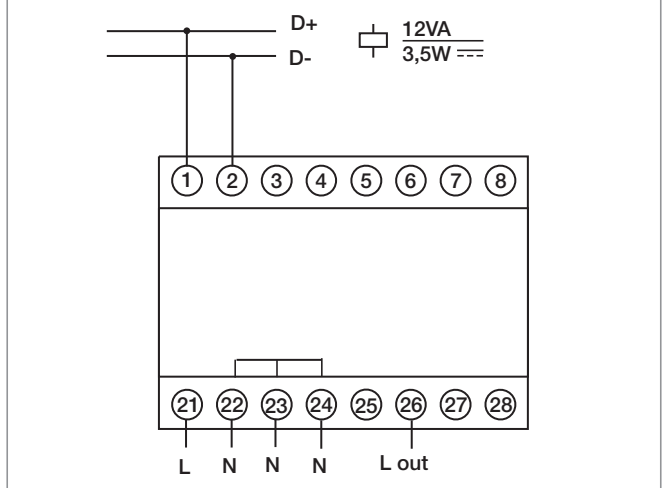
GENERAL SPECIFICATIONS

| | | | |
|--------------------------|--|----------------------------------|--|
| Power ON delay | 7 s | Humidity (non-condensing) | Max. 85% |
| Indication for Supply On | LED, Green | Housing | H4-housing |
| Alarm | LED, Red – Flashing Slow flashing: Overload Fast flashing: Short circuit | Operating Device | Switch for selection of negative/positive phase angle control. |
| smart-house carrier | LED, Yellow | Standards | IEC 60669, EN 55022/ EN 50081-1 and EN 55024/ EN 50082-1 |
| Output On | LED, Red | | |
| Environment | | | |
| Operating temperature | 0° to +50°C/32° to +122°F | | |

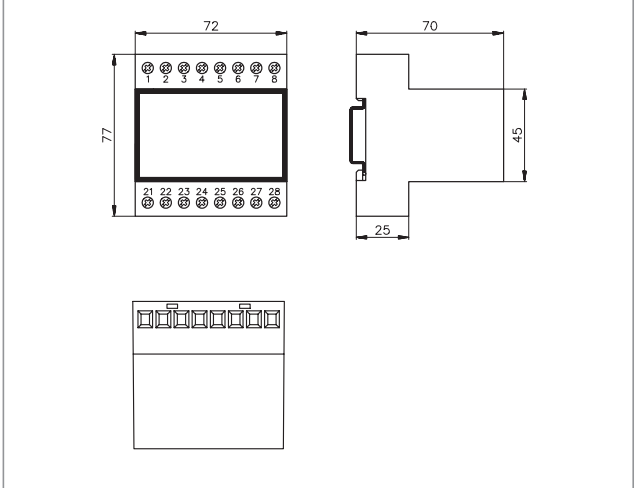
SUPPLY SPECIFICATIONS

| | |
|---------------------------|--------------|
| Power Supply | |
| Rated operational voltage | 230 VAC ±10% |
| Power consumption | 12 VA |
| Power dissipation | Max. 3.5 W |
| Frequency | 50/60 Hz |

WIRING DIAGRAM



DIMENSIONS (mm)



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MODE OF OPERATION

Coding

With the BGP-COD-BAT programming unit, each switching channel can be assigned any address between A1 and P8 via the modular socket on the front of the dimmer. The allocation of the channels is as follows:

| Description | Channel | |
|-------------|---------|-------------------------|
| DIMMER | 1 | ON / OFF / Dimming |
| | 2 | Lighting scene 1 (3) |
| | 3 | Lighting scene 2 (4) |
| | 4 | Dimmer output status |
| | 5 | OFF |
| | 6 | Not used |
| | 7 | Dimming speed |
| | 8 | Soft start / Stop speed |

Functions which are not required should remain uncoded. The coding of the dimmer can be carried out without either supply voltage or smart-house signal. It is retained permanently, but may be overwritten at any time. The Dimmer output are configured in such a way at the factory that it will be switched off in the event of a fault. This configuration, too, can be changed with the BGP-COD-BAT. Setting "1" results in switching on the lighting to 100% in case of a fault, while setting "0" switches off the Dimmer output (factory setting).

Putting into service

Commissioning may only be carried out by an authorised, trained technician. Observe the connection diagram when installing. All lines to be connected must be dead. The N-connection is absolutely necessary for the operation of the dimmer.



Turn to the left:
Do not use the dimmer in this position.



Turn to the right:
Factory settings.
Negative phase angle control (Halogen lamps with electronic transformer), or ordinary ohmic load. (Negative edge triggered).

Although an incorrect setting will result in malfunction, it will not cause irreparable damage to the dimmer. The following table shows the allocation of terminals:

| Terminal | Description |
|----------|--------------------------------------|
| 1 | smart-house signal conductor + (D +) |
| 2 | smart-house signal conductor - (D -) |
| 21 | Line in |
| 22/23/24 | N-conductor |
| 26 | Line out - Dimming channel |

Connections between the smart-house signal and to earth potential will cause malfunctions and are not permissible. Attention should be paid to the correct polarity of the supply voltage and the smart-house signal. In order to meet the requirements for protective low voltage, VDE 0100, part 410, should be observed and applied during installation.

LED indicators

Front-mounted LEDs indicate the status of the device:

| LED | Description |
|-----------------|--|
| GREEN | Supply ON |
| YELLOW "Bus OK" | smart-house carrier: OFF: Bus fault ON: Bus is OK |
| RED Fault | Monitoring: OFF: Status OK ON, flashing slowly: Overload ON, flashing fast: Short circuit |
| RED Output | Dimmer: OFF: Dimmer output off ON: Dimmer output on |

Channel combinations and scenes

| Channel combinations | | | | | Activation | |
|----------------------|---|---|---|---------------------|--|--|
| 1 | 2 | 3 | 5 | Short | Long | |
| | | | | ON / OFF | Dimming Up/Down 5%..100% | |
| | | | | Light.scene 1 (40%) | Store light. scene 1 | |
| | | | | Light.scene 2 (80%) | Store light. scene 2 | |
| | | | | Light.scene 3 (20%) | Store light. scene 3 | |
| | | | | Light.scene 4 (60%) | Store light. scene 4 | |
| | | | | 100% | Lock/Unlock (Locked) | |
| | | | | OFF | OFF | |
| | | | | 0% / OFF | Set light, scenes back to factory settings | |

TYPE SELECTION

Supply
230 VAC

Ordering no.
BH4-D500W-230