

Dimmer, 1 Output, 500 W

smart-house

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



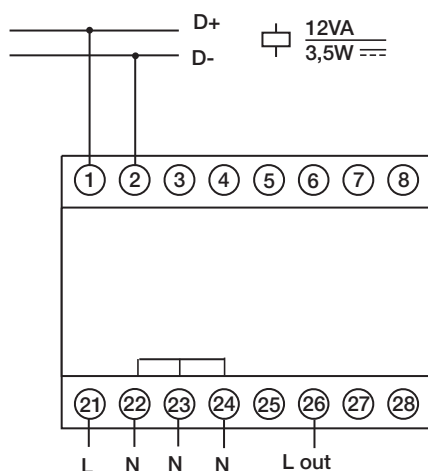
OUTPUT SPECIFICATIONS

Outputs	1	10% on the transformer and 90% on the lamps.
Dimming capacity	500 W	
	Note: The 500 W is the total load on the output. If the installation uses a traditional transformer, the load is typically 30% on the transformer and 70% on the lamps. If the installation uses an electronic transformer, the load is typically	
		Rated operational voltage 230 VAC $\pm 10\%$
		Dimming speed 3.6 s (5% - 100%)
		Response time 1 Cycle: ≤ 272 ms @ 128 channels)

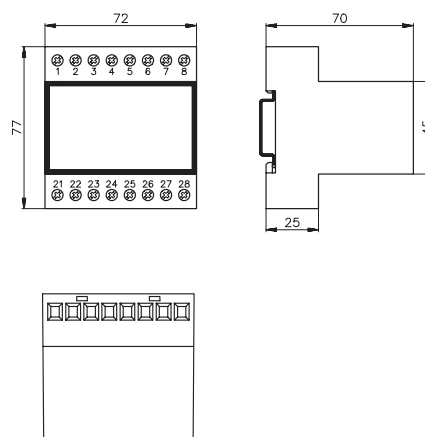
GENERAL SPECIFICATIONS

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

WIRING DIAGRAM



DIMENSIONS (mm)



Dimmer, 1 Output, 500 W



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
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. The desired operating mode should be selected before connecting the phase, because the switches are disabled during operation as a safeguard against accidental resetting.



Turn to the left:
Positive phase angle control for inductive loads (Halogen lamps with conventional (threaded) transformer).
(Positive edge triggered).



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