

# Dimmer, 2 x 285 W Output



## BH6-D285W2-115

- Switching and dimming of lamps
- 8 control-channel receiver
- 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
- Buttons on the front for manual control of the dimmer
- Switch for selecting scenarios lock/unlock on the front
- Output is shortcircuit /overload protected



### OUTPUT SPECIFICATIONS

<b>Outputs</b> Dimming capacity	2	installation uses an electronic transformer, the load is typically 10% on the transformer and 90% on the lamps.
	2 x 285 W-@ 40°C max. <b>Note:</b> The 285 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	
	Rated operational voltage	115 VAC ±10%
	Dimming speed	3.6 s (5% - 100%)
	<b>Response time</b>	1 Cycle: ≤ 272 ms @ 128 channels)

### GENERAL SPECIFICATIONS

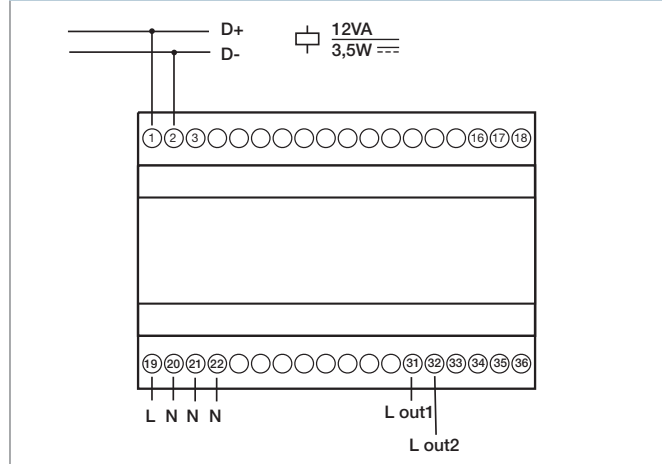
<b>Power ON delay</b>	7 s	<b>Humidity</b> (non-condensing)	Max. 85%
Indication for Supply On Alarm	LED, Green	<b>Housing</b>	H6-housing
	LED, Red – Flashing Slow flashing: Overload Fast flashing: Short circuit	<b>Operating Device</b>	Switch for selection of negative/positive phase angle control. Push button switch for turning output “ON” (one per output). Latching switch for entering scenarian programming mode.
smart-house carrier Output On	LED, Yellow LED, Red (one per output)	<b>Standards</b>	IEC 60669, EN 55022/ EN 50081-1 and EN 55024/ EN 50082-1
<b>Environment</b> Operating temperature	0° to +50°C/32° to +122°F		

### SUPPLY SPECIFICATIONS

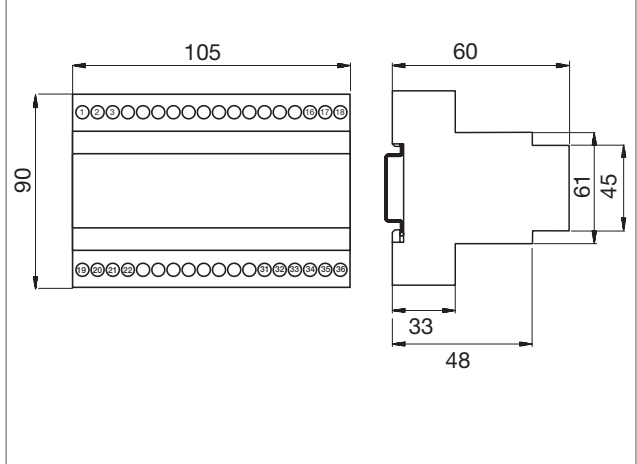
<b>Power Supply</b>	
Rated operational voltage	115 VAC ±10%
Power consumption	12 VA
Power dissipation	Max. 15 W
Frequency	50/60 Hz

<b>Electrical isolation</b> smart-house output/supply	4 kV
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### 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:

Channel	Description
DIMMER 1	1 ON / OFF / Dimming
	2 Lighting scene 1 (3)
	3 Lighting scene 2 (4)
	4 Dimmer 1 output status
DIMMER 2	5 ON / OFF Dimming
	6 Lighting scene 1 (3)
	7 Lighting scene 2 (4)
	8 Dimmer 2 output status

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 (Halo- gen 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 -)
19	Line in
20/21/22	N-conductor
31	Line out - Dimming channel 1
32	Line out - Dimming channel 2

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
YEL-LOW "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 1	Dimmer 1: OFF: Dimmer output off ON: Dimmer output on
RED Output 2	Dimmer 2: OFF: Dimmer output off ON: Dimmer output on

#### Channel combinations and scenes

Channel combinations (Dim. 1 / Dim. 2)			Activation	
1 / 5	2 / 6	3 / 7	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%	100%
			0% / OFF	Set light scenes back to factory settings

### TYPE SELECTION

Supply  
115 VAC

Ordering no.  
BH6-D285W2-115