# **Output Module**

# BH4-RE16A4-230

**CARLO GAVAZZI** 

4-channel receiver

Relay load: 16 A

Module load: 64 A (16 A per relay)

Galvanically separated SPST relay outputs

H4-housing

For mounting on DIN-rail (EN 50022)

LED-indications for supply, smart-house carrier and outputs

AC power supply

Address coding by BGP-COD-BAT

Relay outputs can be connected to different phases



### **OUTPUT SPECIFICATIONS**

Outputs 4 SPST relays Contact ratings (AgSn02) μ (micro gap) Resistive loads AC1 16 A

5x10<sup>6</sup> operations Mechanical lifetime

1x10<sup>5</sup> operations/250 V, 12 A Electrical lifetime

Minimum load 100 mA/12 V

60 operations/min. Operating frequency Dielectric voltage

Outputs - smart-house ≥ 4 kVAC (rms)

Response time ≤ 1 pulse train

### SUPPLY SPECIFICATIONS

**Power Supply** 

Rated operational voltage

Through term. 21 & 22

Frequency

Degree of protection

Pollution degree

Rated operational power

Max. power dissipation

Overvoltage cat. III (IEC 60664)

230 VAC, +/- 10% (IEC 60038)

45 to 65 Hz Typ. 2,5 VA

3 (IEC 60664)

7 W

Power supply (cont.)

Rated impulse withstand volt.

Dielectric voltage

Supply - smart-house

≥4 kVAC (rms)

4 kV

Supply - Outputs ≥2 kVAC (rms)

#### **GENERAL SPECIFICATIONS** Fail polarity state delay Upon loss of smart-house carrier ≤ 20 ms Power ON delay typ. 2s Indication for: Supply ON LED, Green smart-house carrier LED, Yellow Output ON LED, red (one per output) **Environment**

# **MODE OF OPERATION**

4-channel receiver with 4 nor- upon loss of smart-house carrimally open contact outputs. Each output is individually coded by means of the code programmer BGP-COD-BAT. For changing the default setting, please refer to the datasheet on BGP-COD-BAT.

The outputs are normally OFF. When a transmitter coded to the selected channel is activated, the output turns ON and remains ON until the respective channel becomes deactivated. The default setting is such that

er all the outputs go OFF.

Note: At delivery some of the relays might be ON due to transportation bumps. To be sure that the relays are OFF, connect the module to power and smart-house and transmit on channels A1-4 once.

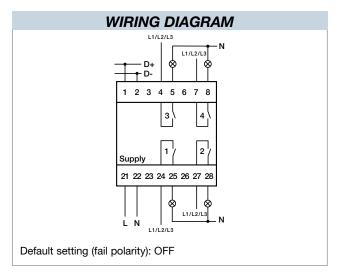
Note: Due to the construction with bistable relays, the module is intended for heating and light control only.

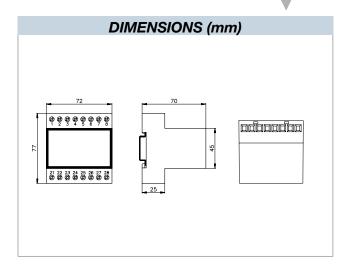
Weight	400 g
Housing	H4-housing
Vibration	2 G (6 to 55Hz)
Shock	5 G (11ms)
Mechanical resistance	
Humidity (non-condensing)	20 to 80%
Storage temperature	-50 to +85°C (-58° to +185°F)
Operating temperature	-5 to +50°C (+23° to +122°F)

## TYPE SELECTION

Supply Ordering no. BH4-RE16A4-230 230 VAC

# **Output Module**





4 channels BH4-RE16A4-230 ... SPST relay output

	OUTPL	JT SPE	CIFICATIO	DNS, RE	LAY DATA
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Load	Test conditions	Typical number of operations
250 V, 12 A, cos φ =1	1800/h, 50% DC, +70°C	1.0 x 10 <sup>5</sup>
250 V, 8 A, cos φ =1	1800/h, 50% DC, +70°C	3.5 x 10 <sup>5</sup>
250 V, 4 A, cos φ =1	1800/h, 50% DC, +70°C	5.0 x 10 <sup>5</sup>
250 V, 3 A, cos φ =1	1800/h, 50% DC, +70°C	7.5 x 10 <sup>5</sup>
230 V, 550 W filament lamps $I_{in} \le 40$ Apeak $I_{off} = 2.5$ A	60/h, 8% DC, +22°C	2.0 x 10 <sup>5</sup>
230 V, 1000 W filament lamps $I_{in} \le 71.5$ Apeak $I_{of} = 4.5$ A	60/h, 8% DC, +25°C	7.0 x 10 <sup>4</sup>
230 V, 900 W fluorescent tubes (25 x 36 W) parallel compensated, 30 µF	360/h, 50% DC, +25°C	1.0 x 10 <sup>4</sup>
230 V, compressor $I_{of} \le 21$ Apeak $I_{off} = 3.5$ A $\cos \varphi = 0.5$	500/h, 20% DC, +25°C	1.7 x 10 <sup>5</sup>
$250 \text{ V}, 8 \text{ A}, \cos \varphi = 0.3$	3 360/h, 50% DC, +25°C	1.0 x 10 <sup>5</sup>

## **ACCESSORIES**

DIN-rail FMD 411