Output Module

BH4-RE16A8-230

- ***8-channel receiver***
- ***Relay load: 16 A***
- ***Module load: 32 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***

OUTPUT SPECIFICATIONS

Outputs		8 SPST relays
Contact ratings (AgSn02)		µ (micro gap)
Resistive loads	AC1	16 A
Mechanical lifetime		$5x10^6$ operations
Electrical lifetime		$1x10^5$ operations/250 V, 12 A
Minimum load		100 mA/12 V
Operating frequency		60 operations/min.
Dielectric voltage		
Outputs – smart-house		≥ 4 kVAC (rms)
Response time		≤ 1 pulse train

SUPPLY SPECIFICATIONS

Power Supply	Overvoltage cat. III (IEC 60664)
Rated operational voltage	
Through term. 21 & 22	230 VAC, +/- 10% (IEC 60038)
Frequency	45 to 65 Hz
Rated operational power	Typ. 2,5 VA
Power dissipation	≤ 4 W
Rated impulse withstand volt.	4 kV
Dielectric voltage	
Supply – smart-house	≤4 kVAC (rms)
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	
Degree of protection	IP 20
Pollution degree	3 (IEC 60664)
Operating temperature	-5 to +50°C (+23° to +122°F)
Storage temperature	-50 to +85°C (-58° to +185°F)
Humidity (non-condensing)	20 to 80%
Mechanical resistance	
Shock	5 G (11ms)
Vibration	2 G (6 to 55Hz)
Housing	H4-housing
Weight	400 g

MODE OF OPERATION

8-channel receiver with 8 normally open contact outputs. Each output is 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 upon loss of smart-house carrier 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 A1-8 once.

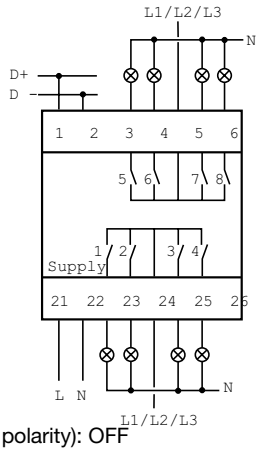
Note: Due to the construction with bistable relays, the module is intended for heating and light control only.

TYPE SELECTION

Supply	***Ordering no.***
230 VAC	BH4-RE16A8-230

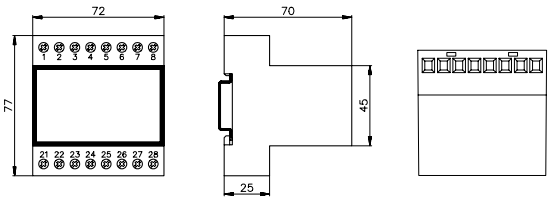
Output Module

WIRING DIAGRAM



Default setting (fail polarity): OFF

DIMENSIONS (mm)



8 channels BH4-RE16A8-230 ...
SPST relay output

OUTPUT SPECIFICATIONS, RELAY DATA

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

ACCESSORIES

DIN-rail	FMD 411