

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	Operating frequency	60 operations/min.
Contact ratings (AgSnO ₂)	μ (micro gap)	Dielectric voltage	
Resistive loads	AC1 16 A	Outputs – smart-house	≥ 4 kVAC (rms)
Mechanical lifetime	5x10 ⁶ operations	Response time	≤ 1 pulse train
Electrical lifetime	1x10 ⁵ operations/250 V, 12 A		
Minimum load	100 mA/12 V		

SUPPLY SPECIFICATIONS

Power Supply	Overvoltage cat. III (IEC 60664)	Dielectric voltage	
Rated operational voltage		Supply – smart-house	≤ 4 kVAC (rms)
Through term. 21 & 22	230 VAC, +/- 10% (IEC 60038)	Supply – Outputs	≥ 2 kVAC (rms)
Frequency	45 to 65 Hz		
Rated operational power	Typ. 2,5 VA		
Power dissipation	≤ 4 W		
Rated impulse withstand volt.	4 kV		

GENERAL SPECIFICATIONS

Fail polarity state delay		Storage temperature	-50 to +85°C (-58° to +185°F)
Upon loss of smart-house carrier	≤ 20 ms	Humidity (non-condensing)	20 to 80%
Power ON delay	typ. 2s	Mechanical resistance	
Indication for:		Shock	5 G (11ms)
Supply ON	LED, Green	Vibration	2 G (6 to 55Hz)
smart-house carrier	LED, Yellow	Housing	H4-housing
Output ON	LED, red (one per output)	Weight	400 g
Environment			
Degree of protection	IP 20		
Pollution degree	3 (IEC 60664)		
Operating temperature	-5 to +50°C (+23° to +122°F)		

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.

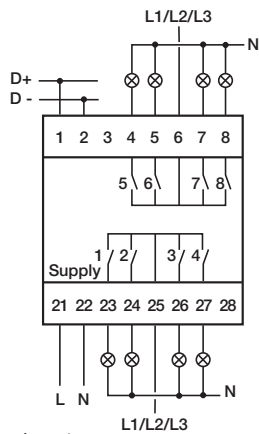
Note: At delivery some of the relays might be ON due to transportation bumps. To be sure that the relays are OFF, connect the module to power and smart-house and transmit on channels A1-8 once.

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

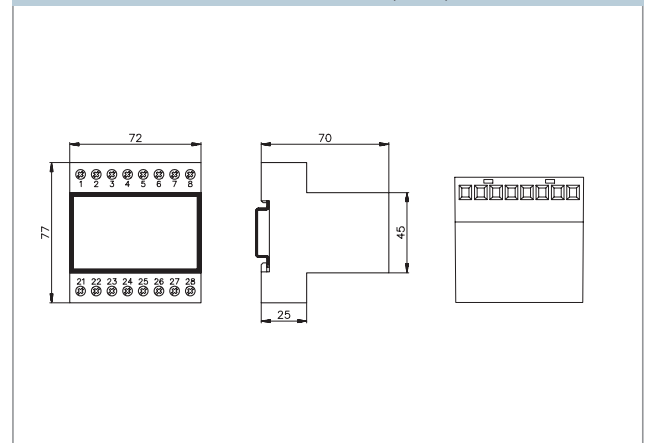
WIRING DIAGRAM



Default setting (fail polarity): OFF

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

DIMENSIONS (mm)



OUTPUT SPECIFICATIONS, RELAY DATA

Load	Test conditions	Typical number of operations
250 V, 12 A, $\cos \varphi = 1$	1800/h, 50% DC, +70°C	1.0×10^5
250 V, 8 A, $\cos \varphi = 1$	1800/h, 50% DC, +70°C	3.5×10^5
250 V, 4 A, $\cos \varphi = 1$	1800/h, 50% DC, +70°C	5.0×10^5
250 V, 3 A, $\cos \varphi = 1$	1800/h, 50% DC, +70°C	7.5×10^5
230 V, 550 W filament lamps $I_{in} \leq 40 \text{ A}_{peak}$ $I_{off} = 2.5 \text{ A}$	60/h, 8% DC, +22°C	2.0×10^5
230 V, 1000 W filament lamps $I_{in} \leq 71.5 \text{ A}_{peak}$ $I_{of} = 4.5 \text{ A}$	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 $I_{of} \leq 21 \text{ A}_{peak}$ $I_{off} = 3.5 \text{ A}$ $\cos \varphi = 0.5$	500/h, 20% DC, +25°C	1.7×10^5
250 V, 8 A, $\cos \varphi = 0.3$	360/h, 50% DC, +25°C	1.0×10^5

ACCESSORIES

DIN-rail

FMD 411