

BH4-RE16A4-230



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	Operating frequency	60 operations/min.
Contact ratings (AgSnO2)	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)	Power supply (cont.)	
Rated operational voltage		Rated impulse withstand volt.	4 kV
Through term. 21 & 22	230 VAC, +/- 10% (IEC 60038)	Dielectric voltage	
Frequency	45 to 65 Hz	Supply – smart-house	≥ 4 kVAC (rms)
Rated operational power	Typ. 2,5 VA	Supply – Outputs	≥ 2 kVAC (rms)
Max. power dissipation	7 W		

GENERAL SPECIFICATIONS

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

MODE OF OPERATION

4-channel receiver with 4 normally 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 upon loss of

smart-house carrier all the outputs go OFF.

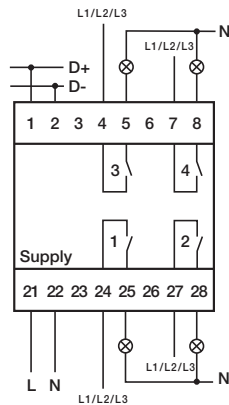
Note: At delivery some of the relays might be ON due to transportation bumps. To be sure that the relays are OFF, connect the module to power and smart-house and transmit on channels A1-4 once.

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-RE16A4-230

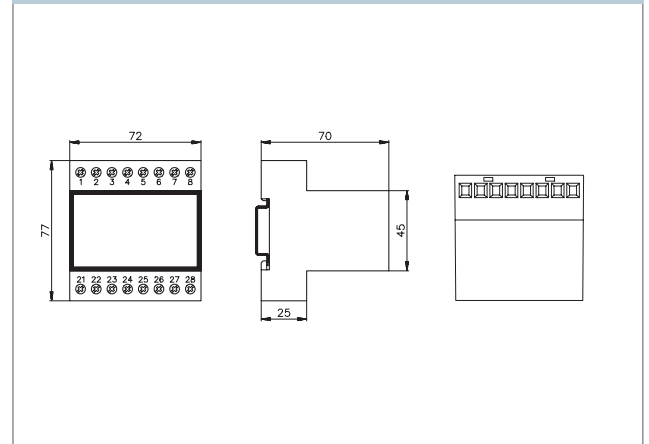
WIRING DIAGRAM



Default setting (fail polarity): OFF

4 channels BH4-RE16A4-230 ...
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 $I_{in} \leq 40 A_{peak}$ $I_{off} = 2.5 A$	60/h, 8% DC, +22°C	2.0×10^5
230 V, 1000 W filament lamps $I_{in} \leq 71.5 A_{peak}$ $I_{of} = 4.5 A$	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 $I_{of} \leq 21 A_{peak}$ $I_{off} = 3.5 A$ $\cos \varphi = 0.5$	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