

## Output Module 4 x 20 Amp

*smart-house*

### BH8-RE20A4-230

#### 4-channel receiver

Relay load: 20 A

Module load: 80 A (20 A per relay)

Galvanically separated SPST relay outputs

#### H8-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

Manual override of the channels on the front of the module



#### OUTPUT SPECIFICATIONS

|                                       |                    |
|---------------------------------------|--------------------|
| <b>Outputs</b>                        | 4 SPST relays      |
| Contact ratings (AgSnO <sub>2</sub> ) | μ (micro gap)      |
| Resistive loads                       | AC1 20 A           |
| In-rush current                       | 120 A (20 msec.)   |
| Max. switching voltage                | 440 VAC            |
| Max. switching power                  | 10 kVA             |
| Capacitive load                       | ≤ 200 μF           |
| Lamp load                             | ≤ 4800 W           |
| Switching operations                  | ≥ 60000 operations |
| Minimum load                          | 100 mA/12 V        |
| Max. Switching Frequency              | 2 Hz               |
| <b>Response time</b>                  | ≤ 1 pulse train    |

#### SUPPLY SPECIFICATIONS

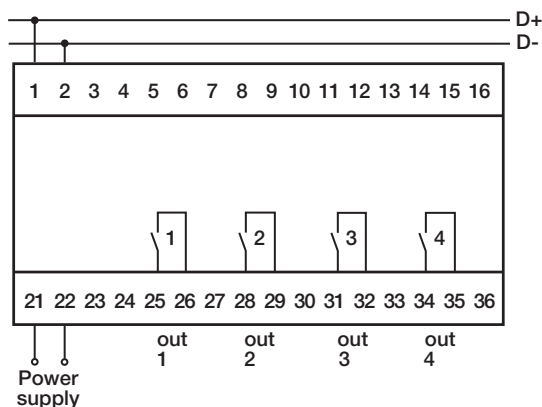
|                               |                                  |
|-------------------------------|----------------------------------|
| <b>Power Supply</b>           | Overvoltage cat. III (IEC 60664) |
| Rated operational voltage     |                                  |
| Through term. 21 & 22         | 230 VAC, +/- 10% (IEC 60038)     |
| Frequency                     | 45 to 65 Hz                      |
| Rated operational power       | Typ. 2,5 VA                      |
| Max. power dissipation        | 7 W                              |
| Rated impulse withstand volt. |                                  |
| 230                           | 4 kV                             |
| <b>Dielectric voltage</b>     |                                  |
| Supply – smart-house          | ≥ 4 kVAC (rms)                   |
| Supply – Outputs              | ≥ 4 kVAC (rms)                   |
| Outputs – smart-house         | ≥ 4 kVAC (rms)                   |

#### GENERAL SPECIFICATIONS

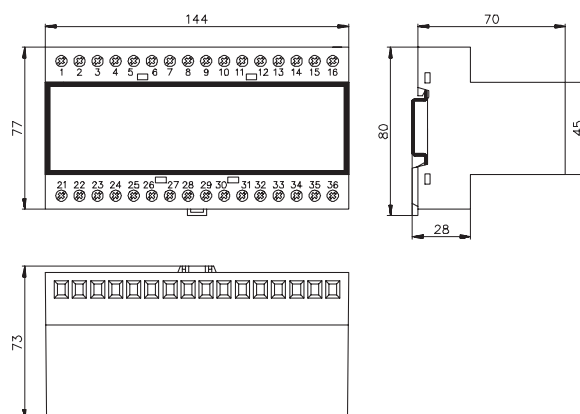
|                                  |                           |
|----------------------------------|---------------------------|
| <b>Fail polarity state delay</b> |                           |
| Upon loss of smart-house carrier | ≤ 20 ms                   |
| <b>Power ON delay</b>            | typ. 2s                   |
| <b>Indication for:</b>           |                           |
| Supply ON                        | LED, Green                |
| smart-house carrier              | LED, Yellow               |
| Output ON                        | LED, Red (one per output) |
| <b>Environment</b>               |                           |
| 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) |
| <b>Humidity</b> (non-condensing) | 20 to 80%                     |
| <b>Mechanical resistance</b>     |                               |
| Shock                            | 5 G (11ms)                    |
| Vibration                        | 2 G (6 to 55Hz)               |
| <b>Housing</b>                   | H8-housing                    |
| <b>Weight</b>                    | 500 g                         |

#### WIRING DIAGRAM



#### DIMENSIONS



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### 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. If fail polarity is set to 1, the relays will go on upon loss of carrier.

On the front of the module, it is possible mechanical to override each relay. The LED's will not fol-

low manual override. The manual override will be reset if smart-house or power is put off and on in min. 10 sec. Each relay is labled so it is possible to see the relays actual status.

**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

230 VAC

#### Ordering no.

BH8-RE20A4-230

### ACCESSORIES

DIN-rail

FMD 411

For further information, see "Accessories".