

BH2-SEP-230

Separates primary and secondary side of smart-house, if a short circuit is detected

Uses 2 channels

Channel coding by BGP-COD-BAT

H2 Housing

For mounting on DIN-rail in accordance with EN 50 022



OUTPUT SPECIFICATIONS

1 output

smart-house out	smart-house
Load	10 mA ≥ 1k Ω

SUPPLY SPECIFICATIONS

Supply	230 VAC
Power Consumption	Max. 11.1 mA Min. 8.2 mA

INPUT SPECIFICATIONS

Power supply	230 VAC ± 15% Galvanic separation from Smart-house Bus
Power consumption smart-house	2.2 VA smart-house

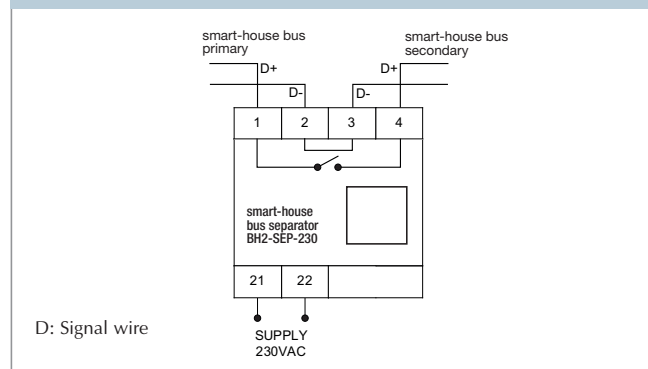
TYPE SELECTION

Supply 230 V	Ordering no. BH2-SEP-230
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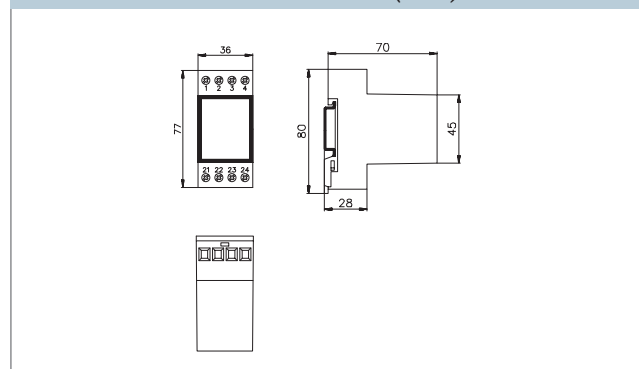
GENERAL SPECIFICATIONS

Dimensions	36 x 77 x 70	Max. Switching voltage	250 VAC
Housing	H2-housing	Contact material	Silver, nickel, gold-covered
Output settling time / total delay	< 2 sec.	Addressing	BGP-COD-BAT
Indication		Environment	
smart-house on short	Red	Degree of protection	IP 20
Supply ON LED	Green	Pollution degree	3 (IEC 60664)
smart-house carrier LED	Yellow	Operating temperature	0° to +50°C
Relay data		Storage temperature	-20° to +85°C
Contact maximum switching current	3 A	Humidity (non-condensing)	20 to 80% RH
Contact resistance	< 100 mΩ (measuring conditions 10 mA/20mV)	Weight	200 g

WIRING DIAGRAM



DIMENSIONS (mm)



MODE OF OPERATION

BH2-SEP-230 is a smart-house bus separator for short circuit detection and signal disabling.

The primary side of the system is connected to the main Smart-house signal.

The Smart-house net which has to be monitored for short circuit detection, is connected to the secondary side of the system.

The system will disable the secondary side if the Smart-house bus is short-circuited. When the short circuit is located and removed the BH2-SEP-230 will automatically activate the Smart-house output.

When the system detects a short circuit on the secondary side it will transmit on the channel programmed for I/O 1.

I/O 5 is the monitored channel and has to be programmed to a legal channel that is never used in the Smart-house installation. This is part of the short circuit detection.

If the system is used with a smart-house controller, the address programmed for I/O 5 has to be set as a push-button in the smart-house controller setup. If more than one Smart-house bus separator is used

on the same Smart-house bus, each of the separations must have its own unique I/O 1 address. I/O 5 can use a common Smart-house® address, but must be assigned.

Note: If the BGP-COD-BAT is connected to the BH2-SEP-230 it will disable the Smart-house out signal.

smart-house I/O

I/O 1 is an input which will transmit when a short circuit occurs on the secondary side of the separator.

I/O 5 is an output for surveillance of the entire smart-house bus. If the load on the smart-house bus is too high, a transmission might

occur on addresses which are used for other purposes or by other smart-house modules.

In a smart-house controller the I/O 5 must be addressed as a "NO push-button", when smart-house is OK.