

BH4-CTRLAB-230

Extension bus module for BH8-CTRLX-230

Channel generator output

Communication with BH8-CTRLX-230 via flat cable

AC power supply

H4-housing for DIN-rail mounting (EN50022)



INPUT/OUTPUT SPECIFICATIONS

smart-house Output	smart-house bus
Output voltage	8.2 V
Current	< 450 mA @ 25°C < 300 mA @ 50°C
Short-circuit protection	Yes
Sequence time	
32 in- and outputs	38.6 ms
128 in- and outputs	132.3 ms

SUPPLY SPECIFICATIONS

Power supply	AC-Drive	Overvoltage cat. III (IEC 60664)
Rated operational voltage through term. 21 & 22		85-264 VAC (IEC 60038)
Frequency		47 to 63 Hz
Rated operational power		Typ. 18 VA at max load
Power dissipation		≤ 7 W
Rated impulse withstand voltage	230 V	4 kV
Dielectric voltage		
Supply - smart-house bus		≥ 3 kVAC (rms)
Extension connector - smart-house bus		≥ 3 kVAC (rms)
Supply - Extension connector		≥ 3 kVAC (rms)

GENERAL SPECIFICATIONS

Power ON delay	< 1 s (+ controller power on delay)	Storage temperature	-20° to +85°C (-4° to +185°F)
Indication for		Humidity (non-condensing)	20 to 80% RH
Supply ON	LED, green	Mechanical resistance	
BUS OK	LED, yellow	Shock	15 G (11 ms)
Environment		Vibration	2 G (6 to 55 Hz)
Degree of protection	IP 20	Dimensions / Material	
Pollution degree	3 (IEC 60664)	(see "Technical Information")	H4-housing
Operating temperature	0° to +50°C (+32° to +122°F)	Weight	200 g

TYPE SELECTION

Supply	Ordering no.
115/230 VAC	BH4-CTRLAB-230

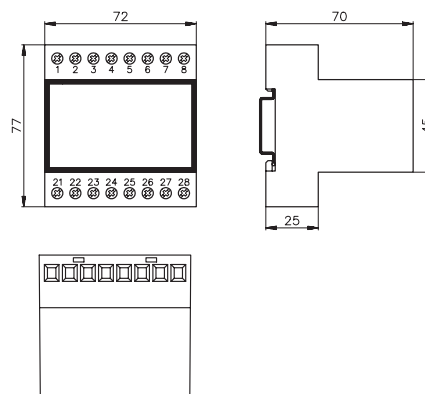
ACCESSORIES

Set of flat cables	BCAB-CTRLXA
(consists of 4 cables: 1 x 120 mm, 1 x 190 mm and 2 x 260 mm)	

SCOPE OF SUPPLY

1 x smart-house Extension bus module	BH4-CTRLAB-230
1 x manual	
1 x 120 mm flat cable	
1 x 190 mm flat cable	

DIMENSIONS (mm)



smart-house Extension Bus Module



MODE OF OPERATION

The Extension Bus module needs to be connected to the smart-house controller BH8-CTRLX-230, via one of the two 4 wire flat cables.

The bus modules can be placed on both sides of the controller. To obtain the right connection, the flat cables must be placed straight, with no turns. The controller can handle up to 3 extension bus modules, enabling up to 4 x 128 inputs and outputs. The Extension Bus modules are

named BUS 1, 2 or 3 depending on the connector used on the controller.

Hint: To ensure best EMC performance, use the shortest flat cable possible. If both the controller and the Extension Bus module are heavily loaded on the bus, keep at least 2 mm of distance between them for ventilation.

See datasheet for the controller BH8-CTRLX-230 for further info.

Led indication

Power LED: The green led will be on, when the module is connected to power.

If the bus is shorted or the communication with the controller fails, the led will go off. In case of a bus short the green LED will indicate it in one of two ways:

1. The light intensity will go weak in app. 30 sek.
2. The LED will be flashing right away.

Bus LED: At power on the yellow

Bus led will be constant on right away. 8 VDC will be on the bus for charging up bus-supplied modules. After power on delay* (app. 1 sec.) the led will be interrupted in each bus period resulting in weak flashing in the constant light. The more outputs activated on the bus, the more the led is flashing.

***Note:** If the Controller is powered up at the same time, the power on delay is depending on the Controller (app. 30 sec).

WIRING DIAGRAM

