GSM Extension Module

BH4-CTRLAG

Extension GSM module for BH8-CTRLX-230
Built-in GSM modem for monitoring and control via SMS
H4-housing for DIN-rail mounting (EN50022)
Communication and supply via flat cable from BH8-CTRLX-230

INPUT/OUTPUT SPECIFICATIONS

GSM modem

Siemens cellular engine	TC35
Dual Band	EGSM9900 and GSM1800
Output power	Class 4 (2W) EGSM900 Class 1 (1W) GSM1800
Antenna	FME

SUPPLY SPECIFICATIONS

Power supply	from Controller:	5 V DC
power dissipation		≤ 1 W

GENERAL SPECIFICATIONS

Power ON delay	< 2.5 s (+ Controller power on delay)
Indication for	
Supply ON	LED, green
Ant. comm GSM	LED, yellow
Environment	
Degree of protection	IP 20
Pollution degree	3 (IEC 60664)
Operating temperature	0° to +50°C (+32° to +122°F)
Storage temperature	-20° to +85°C (-4° to +185°F)

Humidity (non-condensing)	20 to 80% RH
Mechanical resistance	
Shock	15 G (11 ms)
Vibration	2 G (6 to 55 Hz)
Dimensions	H4-housing
Weight	200 g

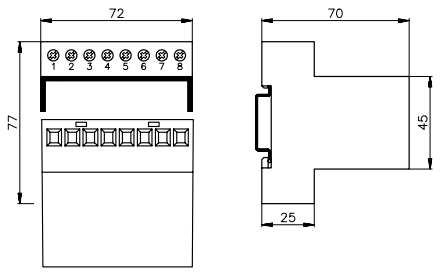
SCOPE OF SUPPLY

1 x Extension GSM module	BH4-CTRLAG
1 x 120 mm flat cable	
1 x 190 mm flat cable	
1 x user manual	

ACCESSORIES

GSM Antenna 900 MHz	ANT1
Set of flat cables	BCAB-CTRLXA (consists of 4 cables: 1 x 120 mm, 1 x 190 mm and 2 x 260 mm)

DIMENSIONS (mm)



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MODE OF OPERATION

GSM Modem Option

The BH4-CTRLAG has a built-in GSM Modem which enables monitoring and control of Dupline signals via SMS messages to/from mobile GSM telephones. There are 3 different ways to use SMS messaging:

- The Controller can be programmed to send out event-based SMS messages. The event can be a channel switching ON or OFF, or it can be an analog signal crossing a set-point.
- Requests for status of digital or analog data can be sent and answered via SMS messages
- Status of digital channels can be controlled by sending commands via SMS messages.

In order to make use of the GSM modem, the following is required:

- A SIM-card with the pin-code 9090 needs to be inserted into the slot in the front of BH4-CTRLAG.
- A GSM antenna needs to be connected to the FME connector on BH4-CTRLAG. Any 900 Mhz GSM antenna with an FME connector can be used. The antenna forms part of accessories, and the ordering number is Ant1. If the unit is installed in a metal enclosure, the antenna must be installed outside the enclosure and connected to the Controller via a cable (an antenna of this type is available as accessory).

A LED in the front of BH4-CTRLAG indicates the status of the GSM modem. By emitting different blink patterns, the LED indicates “connecting”, “SIM-card missing”, “No network found”, “No response from modem”, “SMS sent” and “SMS received”.

WIRING DIAGRAM