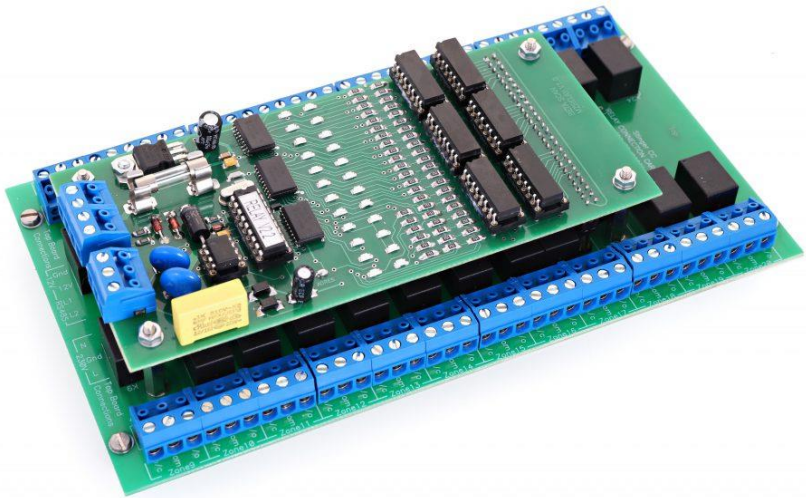


25 CHANNEL RELAY CARD

BS120RELAY
Datasheet

THE STINGER BS120RELAY 25 CHANNEL RELAY CARD.



1. INPUTS AND OUTPUTS

The BS120 Relay module is programmed to accept serial data from the Stinger BS120 energizer system or the Stinger CDS Climb Detection sensors. The input data can be manipulated to combine several devices for one output, or one device/zone per output.

The relay outputs can be used for several purposes. E.g. to automatically select video images, to connect alarm outputs from the energizer to parallel inputs at alarm panels, to connect alarm outputs to the ESKOM Skada system. The microprocessor (PIC) can be pre-programmed to communicate to either one or to multiple energizers / CDS devices.

Outputs are switched irrespective of the energizer / CDS. For example, if any one of the energizers in zone 5 is in alarm, the zone 5 relay will be switched on.

If the relay board powers up, the LEDs on the top-board and the corresponding relays will sequentially switch on, to indicate that the relays are in working order.

If an alarm occurs, the corresponding relay will switch on, together with the corresponding led. The LED will remain on until a reset command has been sent from the control PC.

2. LAY-OUT

Inputs and outputs are indicated at the lay-out diagram below fig. 1.

The outputs are potential free relay contacts. Common, n/o and n/c contacts are available per output. The RS485 connections are identical to the corresponding contacts at the remote-control unit, the BS120 monitor board and the input connections at the RS232 to RS485 converter unit. The HT Fail alarm, the battery-low and the no communication alarm (maintenance alarms) have one common relay output.

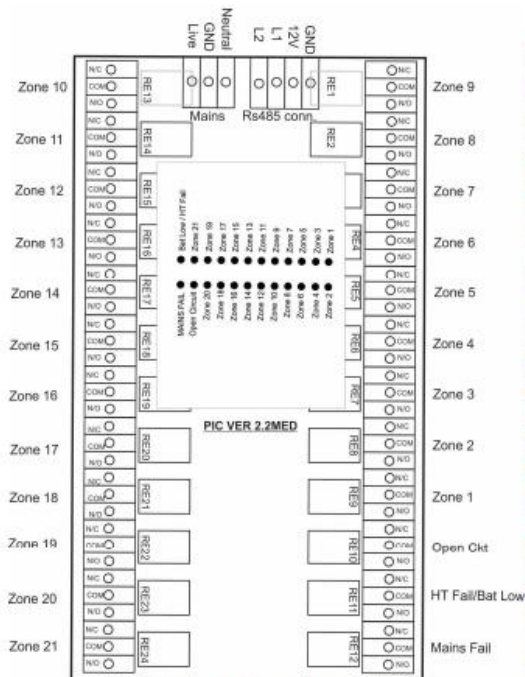


Fig.1 – Relay connections



Fig. 2 BS120 Relay I/O Module

3. SPECIFICATIONS

| Specification | Rating |
|----------------|---|
| Supply voltage | 12V to 16V via RS485 port |
| Mains input | 90V to 260V AC |
| RS485 Port | Compatible with Stinger RS485 protocol/wiring |
| Protection | RS485 inputs protected with 5V MOVs Mains input protected with MOVs. |
| Relay outputs | Contact Rating 30V DC and 2 Amp. Max. |