SCS 30/60
SENTRY COMMUNICATION SYSTEMS
3 RELAY OUTPUT

ROC-01

- GENERAL ALARM OUTPUT
- INTERFACE TO OTHER SYSTEMS

GENERAL DESCRIPTION

The polling of each MUX contains information of that zone's alarm status, supervision state and if the acknowledge button is being pressed. This information is transferred to the 3 output relays, red LED (alarm) and yellow LED (supervision). The green LED shows the ROC-01 is powered and communicating.

The ROC-01 connects into the SCS 30/60 communication and power wiring just like a MUX-100 except it has no polling address.

COMMUNICATION

Communication is via a RS485 two conductor shielded #20 cable at 19,200 BAUD. The ROC-01 only receives, it does not transmit.

PROGRAMMING

No programming required.

ELECTRICAL

The ROC-01 operates at 24 VDC and requires 25 milliamperes nominal current up to 60 milliamperes (3 relays on). This power is usually supplied from the front panel like to a MUX. The power and communication lines are transient and short circuit protected. The 3 relays are Form A, 10 VA at 0.5 amp max. The supervision relay is closed when the ROC-01 is powered and all supervision faults have been corrected and acknowledged.

MECHANICAL

The board measures 2 1/2" x 4 1/2" x 1/2". The enclosed assembly dimensions are shown on Fig. 2.

SYSTEM CONNECTIONS

The input connections are by a seven terminal pluggable block. The connections are shown in Fig. 1 as JP1. These lines have both TransZorbs® and PolySwitches® for transient protection.

LOCAL CONNECTIONS

The output connections to another system are contact closures with an eight terminal pluggable block. The connections are shown in Fig.1 as JP2. The 6 pins to relays are not short circuit protected.

TROUBLESHOOTING

Three LED's allow local monitoring of the operation of the MUX-100. The green LED monitors communication with the master control and annunciation panel, MPA 30/60. If it is on, it is properly communicating. The yellow LED indicates a fault condition in the system, including on battery. The red LED is on when ever there is an alarm event.

Connecting JP2 pin 7 & 8 together will test the relays by stepping through them in sequence. Each relay turns ON for 2 seconds except the supervision relay, which turns OFF. A complete cycle takes about 1 minute (also checks 30 zones on ROC-30).

ENGINEERING SPECIFICATION

The systems 3 relay output unit must close a relay when any system alarm is detected, close another relay when any system supervision has faulted and a 3rd relay when an operator has acknowledged a condition (for date time stamp). The unit must accept 24 VDC and draw no more than 60 milliamperes. Communication must be by a RS485 two conductor shielded cable at 19,200 BAUD. All connections shall be by pluggable terminal blocks. A method of testing the relays and LED's for alarm, supervision and on line must be supplied.

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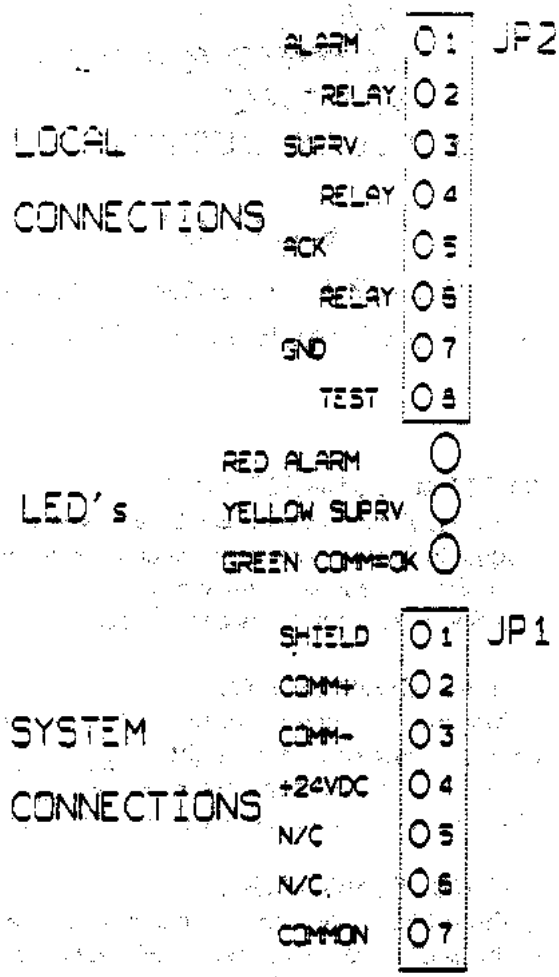

Fig. 1 WIRING

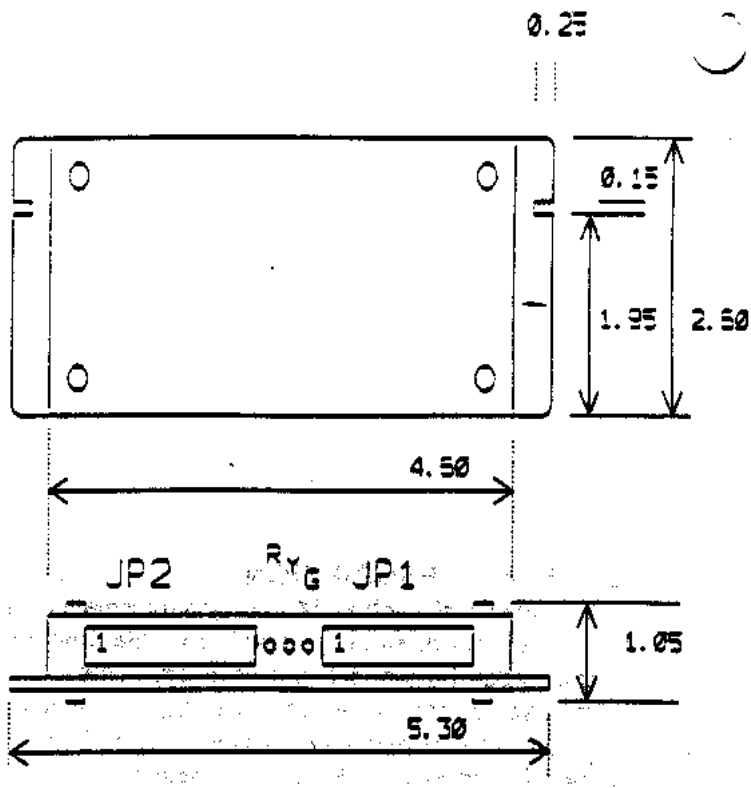

Fig. 2 DIMENSIONS
NOT TO SCALE