HIGH SECURITY CONTACTS
INSTALLATION INSTRUCTIONS

RMS94-7, MSS100-17/19, MSS100-7, MSS200-7, 1010-64X

FLAIR ELECTRONICS

MSS100-17 and MSS100-19

PRINCIPAL OF OPERATION - Flair Balanced Magnetic Switches: Each Switch Case contains 2 reed switches of different magnetic sensitivity. With no Magnet in place both switches are open. When the door is closed and the Magnet balanced, one reed switch closes and the other reed switch stays open. If an external magnet is placed next to the Switch in an effort to bypass the Magnetic Contact, depending on the external magnet polarity, the second reed switch will close, or the first reed switch will open, either action causing an alarm.

WIRING: There are two recommended wiring configurations, both involving the addition of resistors. Note: The resistors may be installed inside the cases. One configuration uses a single zone input to monitor for alarm and tamper, see Figure A. The other configuration uses two zone inputs, one zone for monitoring alarm and door status, the other zone for monitoring tamper, see Figure B. The Figure A configuration is recommended if your alarm panel can be programmed to distinguish the difference between an open circuit for alarm and a short circuit for tamper. If this is not possible, then the Figure B configuration is recommended.

MOUNTING: Mount the switch and magnet to the door frame and door making sure that the magnet is aligned with the switch. The face of the magnet holder should be approximately ¼" from the face of the switch. If the door gap is more than ¼" use a bracket to mount the magnet close to the switch. Test the operation of the switch before permanently mounting magnet.

MAGNET ADJUSTMENT: Make all adjustments in 1/8" movements.

1. Move the magnet toward the front face of the switch until the switch is reading a tamper condition.
2. Move the magnet away from the switch until the switch just reads a balanced condition.
3. Move the magnet another 1/8" away from switch. This will set the sensitivity for the tamper.
4. Mark the position of the mounting holes and the final position of the face of the magnet with a light pencil line. Remove the magnet, drill screw holes and then mount magnet, making sure magnet is in position previously marked.

TESTING: See Figure A - Make all loop test readings with door closed. When a 1k Ohm resistor is installed:

1. With the door open the loop will read open (Infinite Ohms)
2. With the door closed and the switch balanced the loop will read 1k Ohm
3. With the door closed and showing a tamper condition the loop will read 0.0 Ohms

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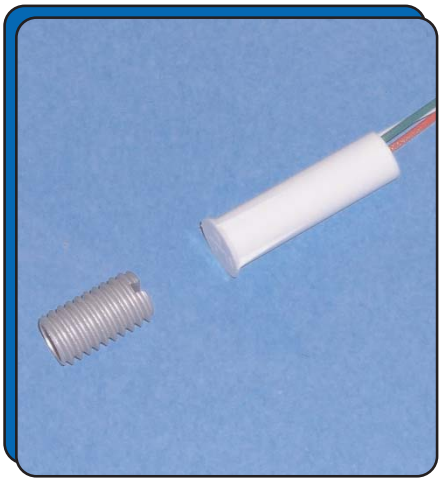

RMS94-7

MSS100-7, MSS200-7

1010-64X

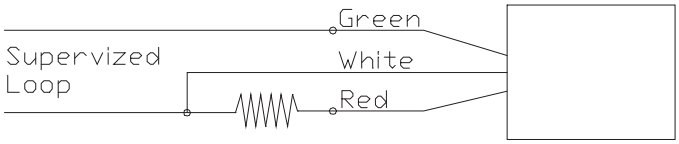

FIGURE A:

WIRING DIAGRAM
SINGLE ZONE INPUT
WITH 1k Ohm RESISTOR

TESTING: See Figure B - Make all loop test readings with door closed. When two (2) 1k Ohm resistor are installed:

1. With the door open the loop will read open (Infinite Ohms) and the tamper loop will read 1k Ohm

2. With the door closed and the switch balanced the loop will read 1k Ohm and the tamper loop will read 1k Ohm

3. With the door closed and showing a tamper condition the alarm loop will read 1k Ohm and the loop will read 0.0 Ohms

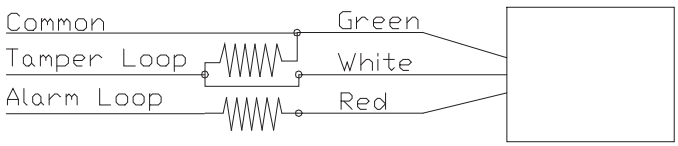

FIGURE B:

WIRING DIAGRAM
TWO ZONE INPUT
WITH 1k Ohm RESISTORS