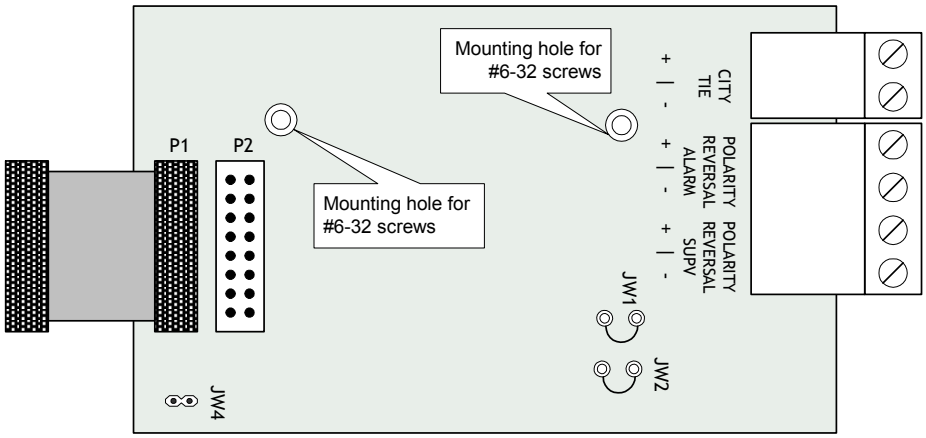
SECUTRON™
Fire Alarm Systems™

MR-2300-PR Polarity Reversal and City Tie Module

Figure 1: Polarity reversal and city tie module



The following hardware configuration must be performed before installing the MR-2300-PR:

MR-2300-PR Jumper Settings

P1	Cable connects to **P5** on the **Main Fire Alarm Board.**
JW1	Cut this jumper for Trouble transmission. When this jumper is cut and a system trouble occurs, the designated terminals will transmit a "zero volts" or "open" circuit. Please note that in normal condition, the terminals polarity is read exactly as labeled on the circuit board.
JW2	Cut this jumper for Trouble transmission of supervisory. When this jumper is cut and a supervisory trouble occurs, the designated terminals will transmit a "zero volts" or "open" circuit. Please note that in normal condition, the terminals polarity is read exactly as labeled on the circuit board.
P2 & JW4	Not used with MR-2300 Fire Alarm Panel. Jumper JW4 remains on board.

The Alarm Transmit signal to the MR-2300-PR can be programmed to turn OFF when signal silence is active. This allows the City Tie Box to be manually reset. On subsequent alarms the silenceable signals will resound and the City Tie Box will be retriggered.

The Trouble Transmit signal to the MR-2300-PR can be programmed to delay AC power fail for 0, 8 or 18 hours if this is the only system trouble.

Polarity Reversal and City Tie Module Wiring

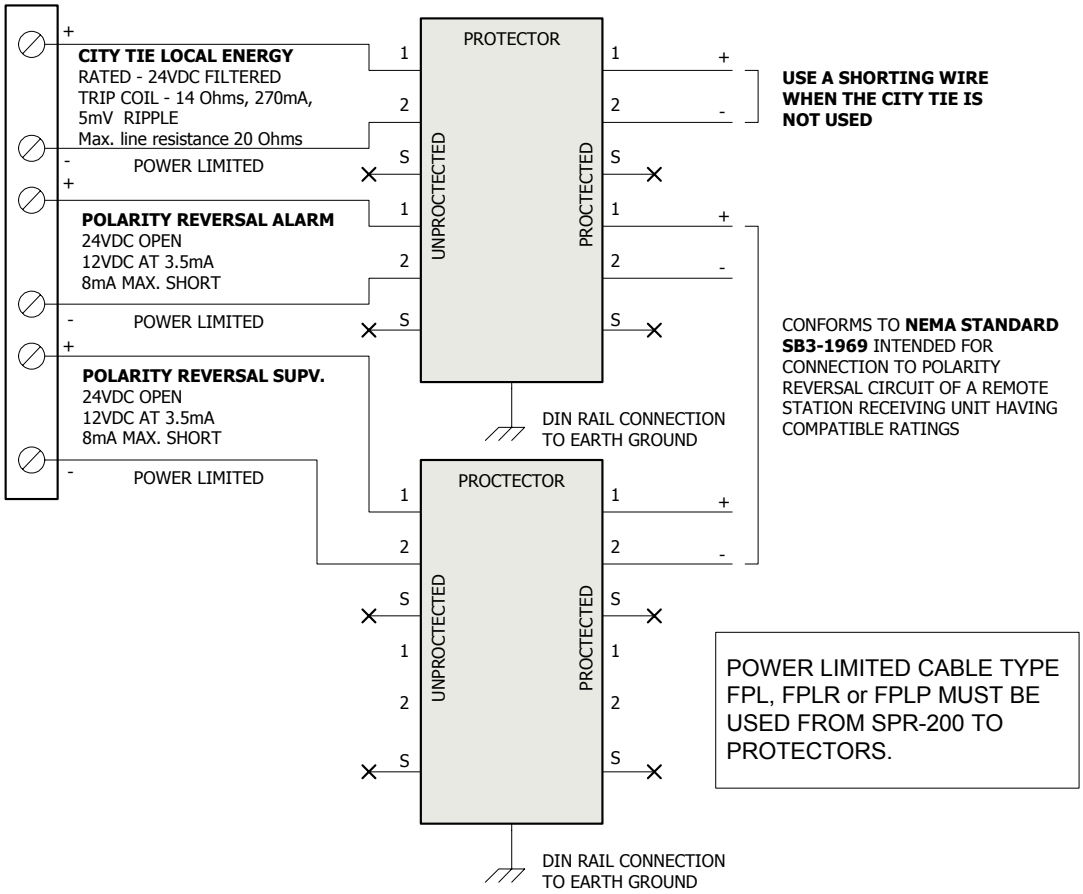
Wire MR-2300-PR Polarity Reversal and City Tie Module (if used) as shown in *Figure 2* below. Power Limited cable type FPL, FPLR or FPLP must be used.

For USA installation, the installer must use **Atlantic Scientific (Tel: 407-725-8000), Model #24544 Protective Device**, or similar **UL-Listed QVRG secondary protector**, as shown.

For use in Canada, the Protective Device is not required but still recommended.

Figure 2: Polarity reversal and city tie module terminal connection

MR-2300-PR



Electrical Specifications

- City Tie power limited / 24V DC unfiltered/ 250 mA max/ 14 ohms trip coil
- Polarity reversal power limited/ 24V DC open/ 12V DC at 3.5mA /8.5mA max (shorted)
- Polarity reversal supv terminal /-24V DC (supervisory)/ 0V (trouble)
- Polarity reversal alarm terminal/ 24V DC (normal)/ -24V DC (alarm)/ 0V (trouble)
- Current Consumption: Standby: 50mA
  Alarm: 300mA (city tie in use)
  70mA (city tie not in use)