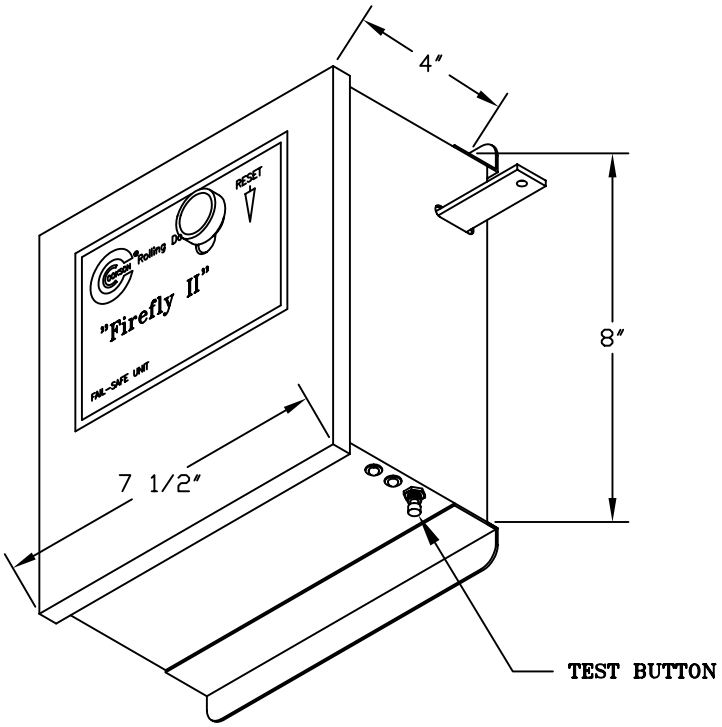
☐ FIREFLY II

Fire door release device



FEATURES:

- Solid State Fail Safe Operation
- Power Indicator Light
- Adjustable 0-10 sec. Delay On Alarm Response Release
- Adjustable 0-30 sec. Delay On Power Loss Release
- Universal Power Input (24V AC/DC, 120VAC)

APPLICATIONS:

- For use on all service fire and counter fire doors w/release arm drop out.

OPTIONS:

- Smoke Detector(s)

OPERATION:

Two wire operation (power supplied by alarm system and/or smoke detector).

Upon power loss to unit (inititated by alarm system/smoke detector or complete power outage), unit will delay up to 30 sec before mechanically releasing. If power is restored prior to releasing, the unit will abort release.

Four wire operation (power supply can be independent from alarm system).

Upon activation of alarm system and/or smoke detector unit will initiate delay up to 10 sec before mechanically releasing. Upon power loss, unit will delay up to 30 sec before mechanically releasing.

LABELING AGENCY

- UL
- ULC
- Ca State Fire Marshall

TECHNICAL SPECIFICATIONS:

DIMENSIONS:

7 1/2" Ht. 8" Wide 4" Dpth.

MOUNTING:

Surface only. Unit must be mounted in the vertical or horizontal position near the release arm of the door. Cable or sash pull must be at 90° to the unit.

ELECTRICAL CONNECTION:

2 wire or 4 wire connection.

1) 2 wire: 2 wire (plus ground) power source from alarm system and/or smoke detector.
2) 4 wire: 2 wire (plus ground) power source that may be independent from alarm system and/or smoke detector. 2 wire normally closed dry contacts from alarm system and/or smoke detector.

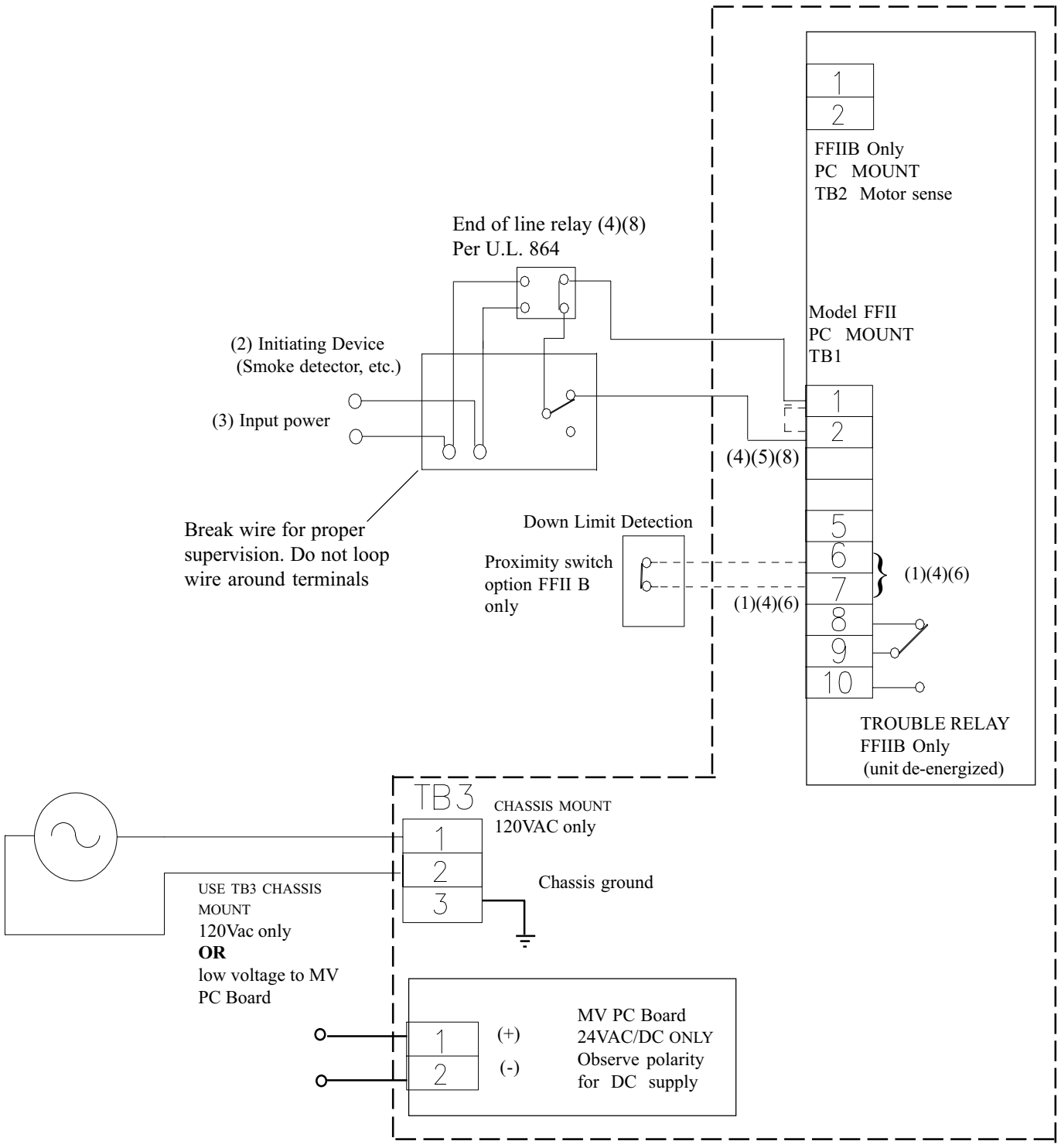
ELECTRICAL REQUIREMENTS:

INPUT VOLTAGE	VOLTAGE REQUIREMENTS	CURRENT REQ'D SUPERVISORY*	CURRENT REQ'D ALARM CONDITION
120 VAC	120VAC ± 10%	0.3 A	0.65 A
24 VAC	24VAC ± 5%	0.075 A	0.130 A
24 VDC	24VDC ± 5%	0.025 A	0.045 A

*NOTE: Initial power up in rush current not to exceed 3 times rated current

ELECTRICAL CONNECTIONS (TYPICAL) - FIGURE 4
FOUR WIRE- INDEPENDENT ALARM & POWER LOSS DELAYS

Refer to Section C - Electrical Connections pages 2&3 for complete FFII wiring instructions. Reference all footnotes below for additional installation information.

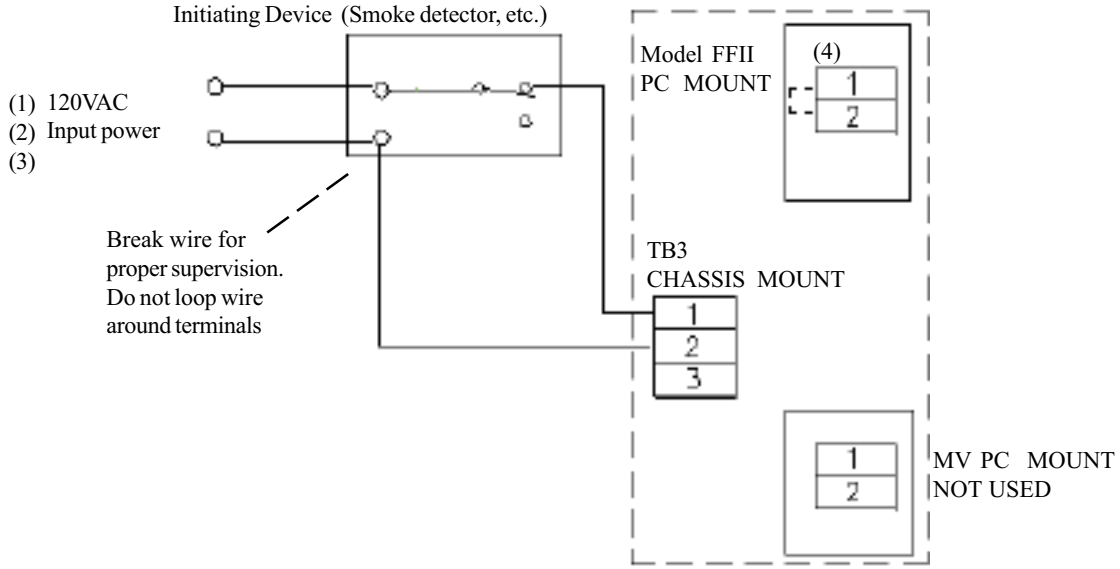


(1) Dotted line indicates factory jumper which must be removed when connecting the N/C device.
(2) See NFPA 80 and NFPA 92-1993 for proper placement.
(3) Verify input voltage to model being used.
(4) Maximum loop resistance 100 ohms. Verify contact rating of End of Line Relay.
(5) Jumper must remain installed for two wire installation (figure 4A).
(6) Jumper must remain installed if not using this option.
(7) All fuses 2AG Fast Acting. See page 5, figures 5 &5A for proper ratings
(8) End of line relay as per U.L. 864 See smoke detector installation instructions for proper End of Line Relay p/n and contact ratings.

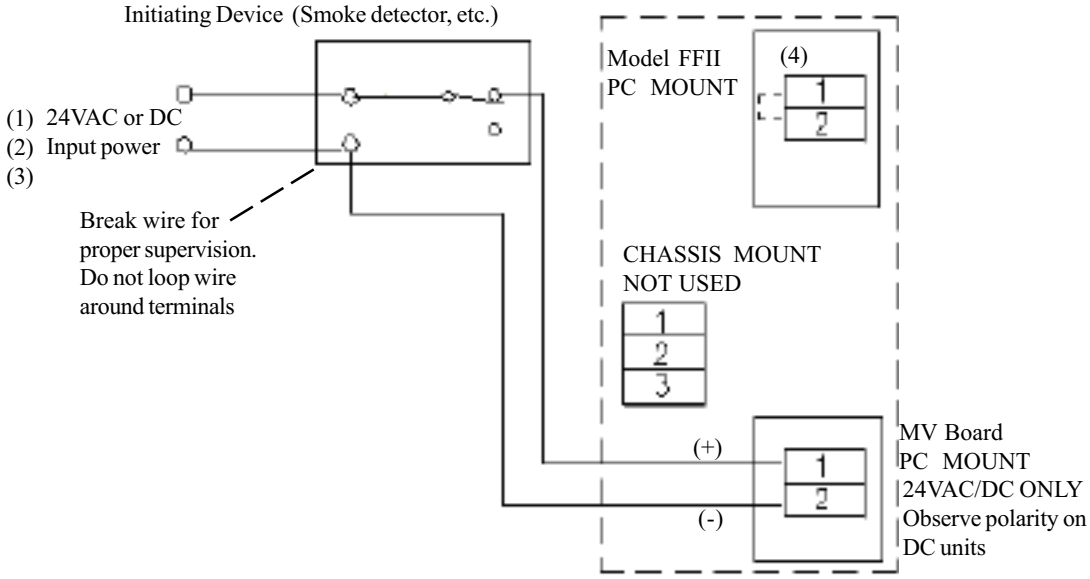
Installation of all wiring and related connecting hardware must be performed in accordance with the latest NFPA, U.L., and N.E.C. standards and codes. In addition, all installations subject to Canadian standards shall be performed in accordance with the Canadian Electrical Code, Part I, with respect to wiring material type, wiring gauge related to power capacity requirements and circuit length and wiring methods.

FIGURE 4A - TWO WIRE/SINGLE DELAY

High voltage connections



Low voltage connections



(1) See NFPA 80 and NFPA 92-1993 for proper placement.
(2) Verify input voltage to model being used.
(3) See smoke detector installation instructions for contact ratings. Installation of all wiring and related connecting hardware must be performed in accordance with the latest NFPA, U.L., and N.E.C. standards and codes. In addition, all installations subject to Canadian standards shall be performed in accordance with the Canadian Electrical Code, Part I, with respect to wiring material type, wiring gauge related to power capacity requirements and circuit length and wiring methods.
(4) Jumper must remain installed for two wire installation.
(5) All fuses 2AG Fast Acting. See page 5, figures 5 &5A for proper ratings