

□ TEST-A-FIRE RELEASE DEVICE

Motor operated fire door automatic closure control w/release device & battery backup

FEATURES:

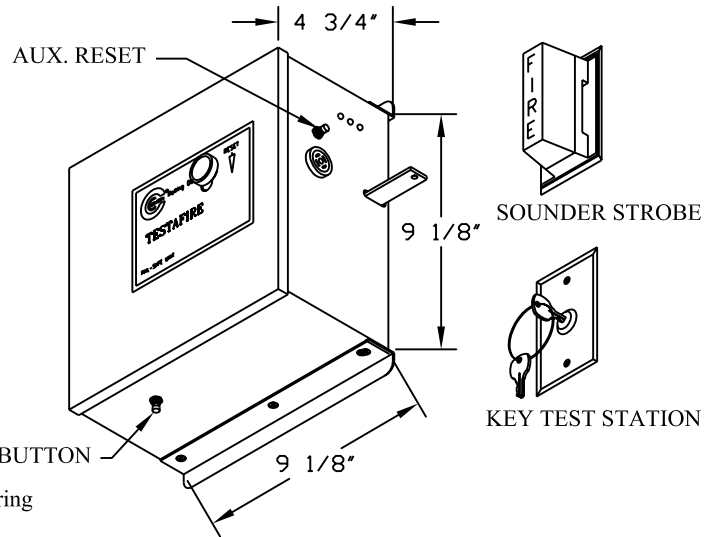
- Solid State Fail Safe Operation
- 72 Hour Battery Back Up
- Diagnostic LED's
- Obstruction logic for self close function
- Down Limit Detection
- Motor Voltage Sensing
- Supports up to 4 Auxiliary Devices
- Sounder Strobe
- Keyed Test Station (Flush mounted, non-masterkeyable)
- Adjustable 0-10 sec. delay on alarm response

APPLICATIONS:

- Motor operated service fire doors (w/ release arm drop out) GH, H and GJ operators w/B2 wiring (modification required, see below)
- Motor operated counter fire doors with GJ operators w/B2 wiring (modification req'd, see below).
- Reversing edge required on all Test-A-Fire Release Device doors.

OPTIONS:

- Smoke Detector(s)
- Speaker Strobe (w/voice module) 2 max per unit



LABELING AGENCY:

- UL
- ULC
- Ca State Fire Marshall

OPERATION:

Upon activation of alarm system and/or smoke detector, two scenarios are possible.

- 1) Motor power present. Unit will initiate delay (audible and visual warnings activate). After delay time is up unit will motor the door to the closed position.
- 2) Motor power not present. Unit will initiate delay (audible and visual warnings activate). After delay time is up unit will mechanically release.

Obstruction Logic. During powered closure (alarm condition) door will reverse upon striking an obstruction. Unit will attempt a maximum of three closure cycles, after which door will stop on obstruction and unit will mechanically release. If door reaches fully closed position unit will not release.

Testing: The key test station enables remote testing of the units' basic operation. The key test station does not simulate an alarm condition or test the fire alarm system. It is intended to test the closure of the door only. The following functions are not invoked when the key test station is used: time delay and cycle counter (door will continue to cycle if an obstruction is encountered). The test button on the enclosure will simulate an alarm condition and the unit will activate normally.

MODIFICATIONS:

Motor operators will require special Test-A-Fire control modifications.

TECHNICAL SPECIFICATIONS:

DIMENSIONS: Release Device

9 1/8" Ht. 9 1/8" Wide 4 3/4" Dpth.
Weight: 13 lbs.

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:

See Figure on following page.

ELECTRICAL REQUIREMENTS:

INPUT VOLTAGE	VOLTAGE REQUIREMENTS	CURRENT REQ'D SUPERVISORY*	CURRENT REQ'D ALARM CONDITION
120 VAC	120VAC ± 10%	0.10 A	0.5 A
24 VAC	24VAC ± 10%	0.10 A	0.5 A
24 VDC	24VDC ± 5%	0.10 A	0.5 A

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

INITIATING/DOOR INPUTS (dry contacts)

Maximum loop resistance 100 Ω
 Maximum Current: Not to exceed 0.002 A
 Maximum Voltage: 15 VDC

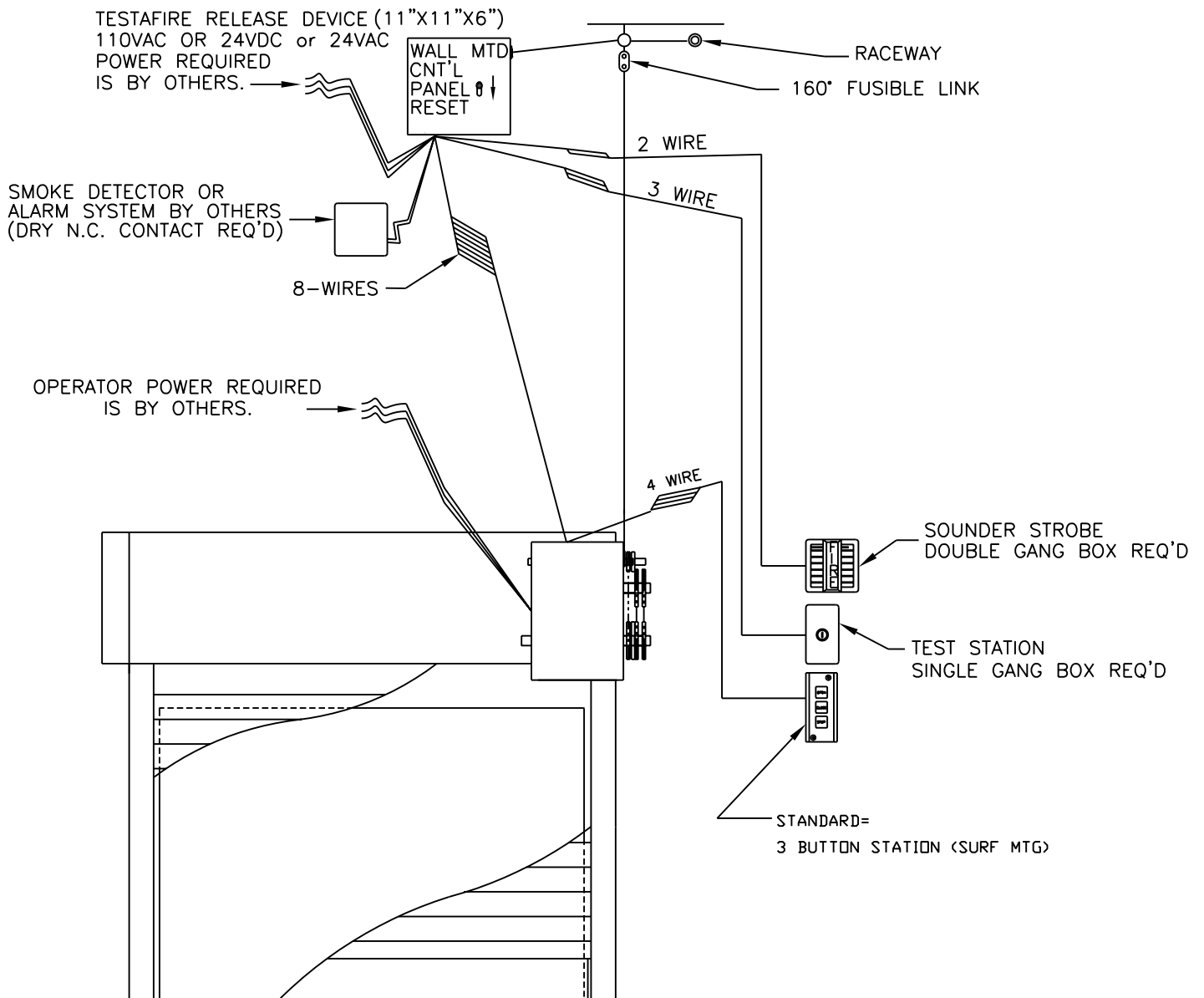
AUXILIARY INPUTS

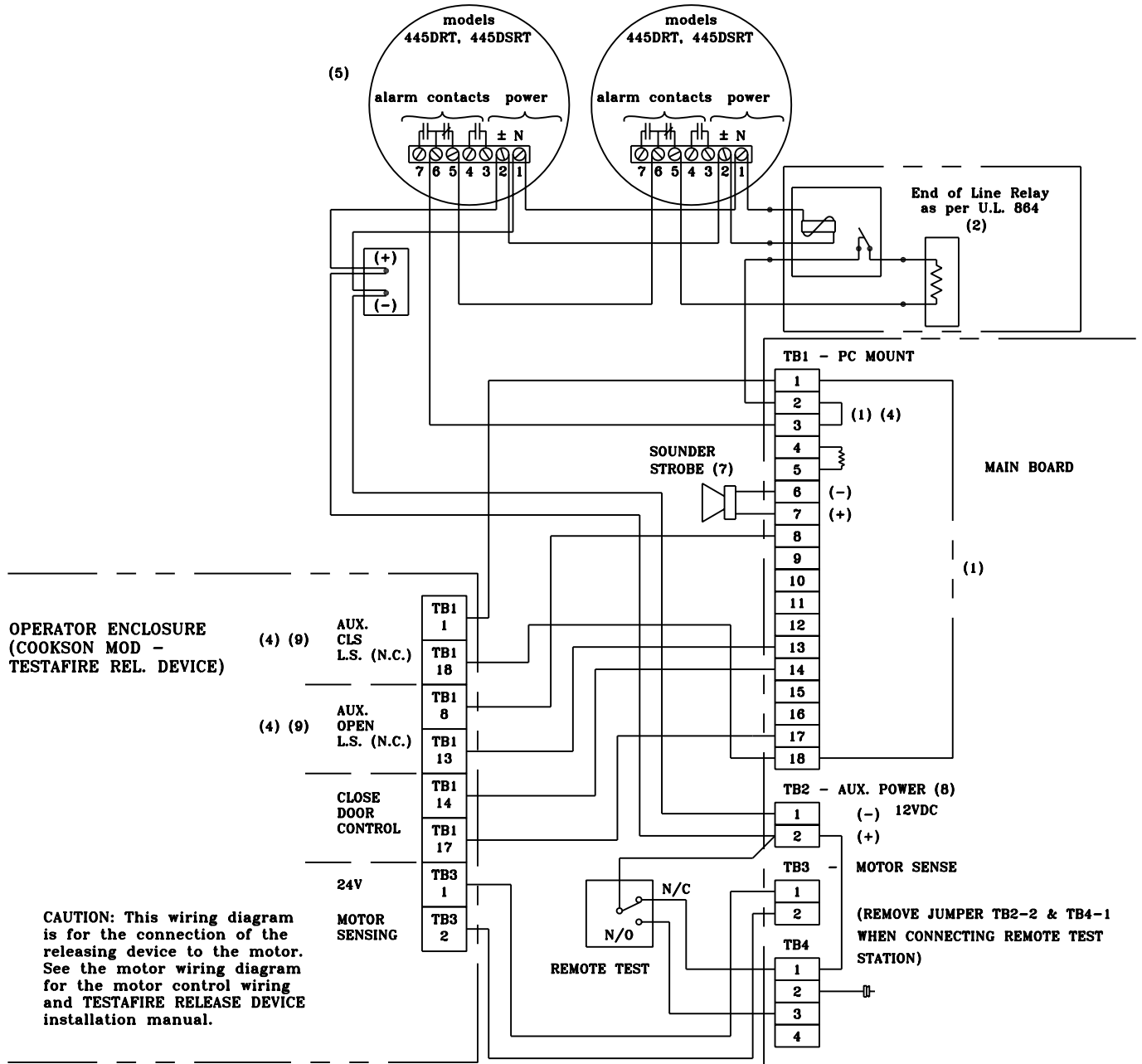
12VDC @ 0.250 A

BATTERY

12VDC 4.0 AH

TEST-A-FIRE RELEASE DEVICE WIRING CONFIGURATION





CAUTION: This wiring diagram is for the connection of the releasing device to the motor. See the motor wiring diagram and TESTAFIRE RELEASE DEVICE installation manual.

NOTES:

INSTALLATION INSTRUCTONS MUST BE FOLLOWED TO ASSURE PROPER OPERATION.

1. Factory installed jumpers: Remove when connecting to N/C device.
2. Supervisory device must be installed.
3. All fuses 1A @ 250V, 2AG fast acting.
4. Maximum loop resistance 100 ohms.
5. See NFPA 80 and NFPA 72-1993 for proper placement of detector(s).
6. Class 1 wiring must enter through proper opening. See figure 1A.

7. If unit contains factory installed voice module option refer to voice module connections. DO NOT connect speaker to TB1 6&7.
8. Aux. 12VDC power for smoke detectors if req'd.
9. Aux. L.S. must activate before operator limit switch. Must be dry contacts.
10. Verify power source matches release device label on enclosure.
11. Battery should not be connected until testing of unit is being performed.

ENGINEER APPROVAL	REPLACES: 9-9020-01 REV 1	DIMSCALE: 1		JOB #:	
BY:	ECN: 0652	REVISION		DOOR MARKS:	
DATE:	ORIG. DRAWN DATE: UNKNOWN	DATE: 09/25/97	PAGE 1 OF 1	PART/DWG. NO.:	REV.:
	BY: UNKNOWN	BY: DAM		9-9020-01	

ELECT. CONN. FOR TEST-A-FIRE RELEASE DEVICE TO GH/H/GJ OPERATOR