PREEMPTION PROGRAMMING

Front Panel
Main Menu >Controller >Preemption >Preempt Phasing/Preempt Parameters

Web Interface
Home >Controller >Preempt Configuration >Preempts
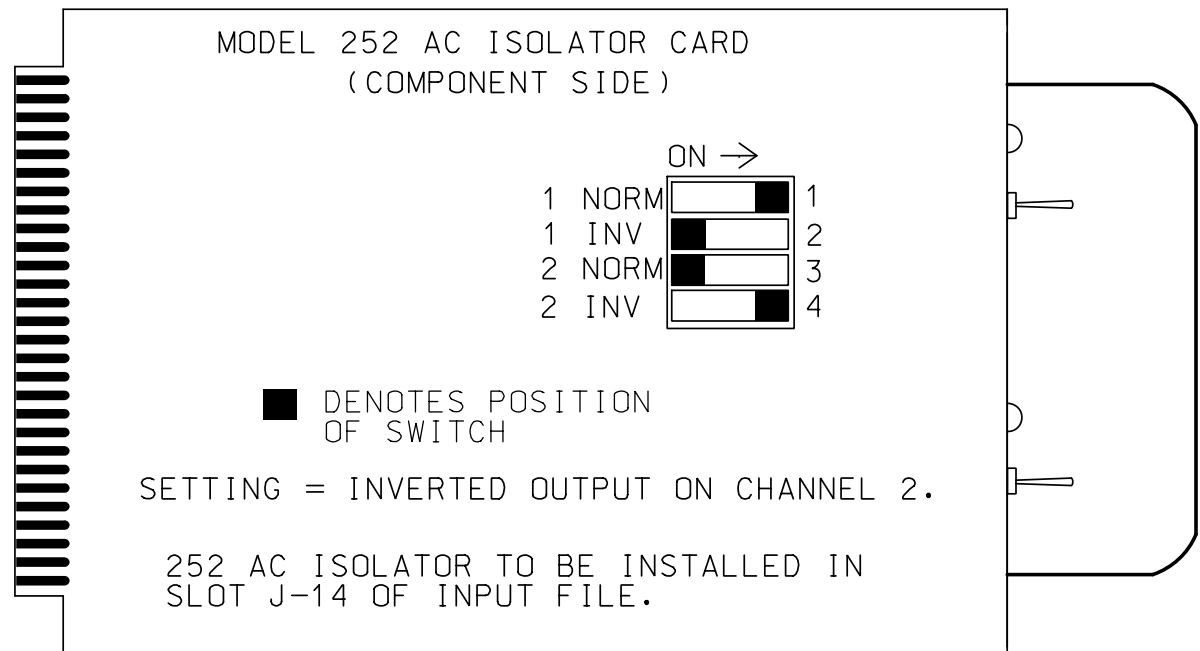
Preempt Configuration

Preempt	2
Enabled	Enabled
Type	Emergency Veh
Track Phases	-
Track Overlaps	-
Dwell Phases	3, 8
Dwell Peds	-
Dwell Overlaps	2
Cycling Phases	-
Cycling Peds	-
Cycling Overlaps	-
Exit Phases	2, 6
Exit Overlaps	1, 3, 6
Delay	*
Call Ext Time	1.0
Max Presence	0
Max Pres Act	Terminate
Enter Min Green	1
Enter Walk	0
Enter Ped Clear	255
Enter Yellow Change	25.5
Enter Red Clear	25.5
Track Green	-
Track Yellow Clr	-
Track Red Clear	-
Dwell Green	*
Exit Min Green	255
Exit Yellow Change	25.5
Exit Red Clear	25.5
Exit Type	Exit Phases
Non Locking Memory	-
Not Ovrd Flash	X
Not Ovrd Nxt Pre	-
Require All Red Entry	-
Track Clear Ovrd	X
Ped Clear During Yellow	-
Entry Omit OLTG	-
Track Reserve	-

★ Value to be determined in the field

PREEMPT 2 AC ISOLATOR (MODEL 252) OUTPUT PROGRAMMING DETAIL

(set DIP switches as shown below)

MODEL 252 AC ISOLATOR CARD
(COMPONENT SIDE)

ON →

1 NORM — 1
1 INV — 2
2 NORM — 3
2 INV — 4

■ DENOTES POSITION
OF SWITCH

SETTING = INVERTED OUTPUT ON CHANNEL 2.

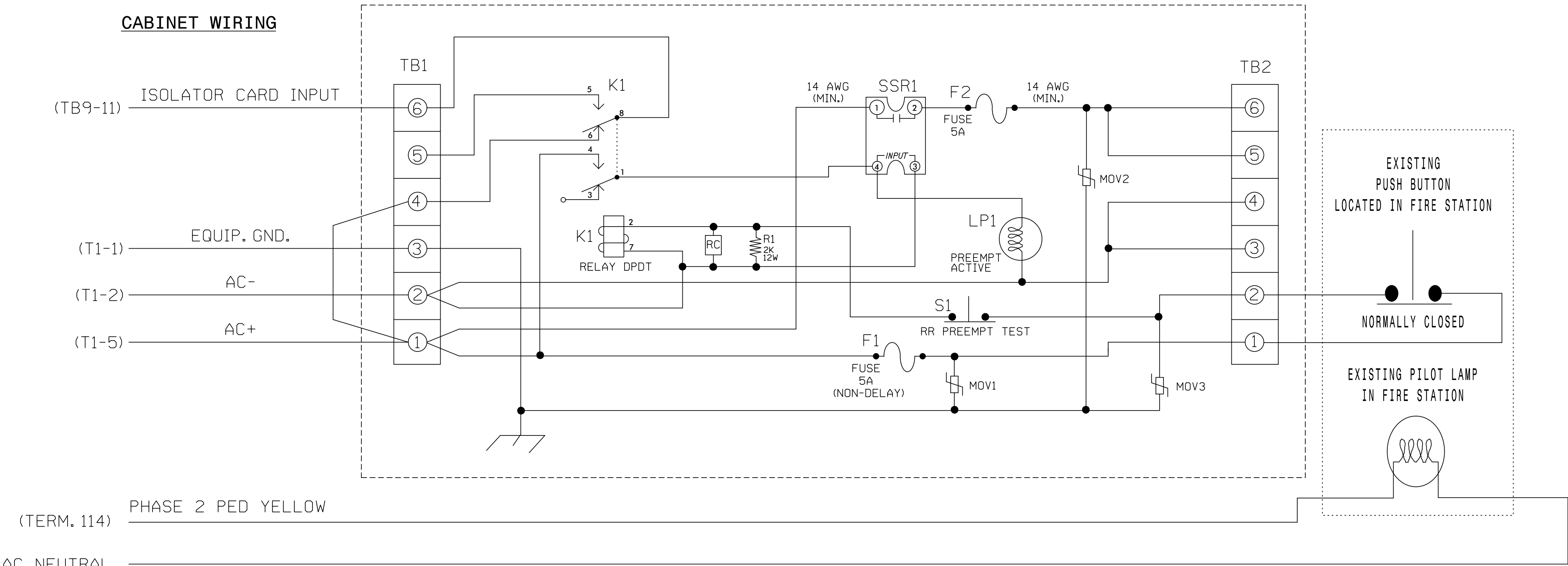252 AC ISOLATOR TO BE INSTALLED IN
SLOT J-14 OF INPUT FILE.

NOTE: IF ANOTHER MANUFACTURER TYPE OF AC ISOLATOR IS USED,
OUTPUT PROGRAMING IS LIKELY NOT TO EQUATE TO THAT SHOWN ABOVE.

EMERGENCY VEHICLE PREEMPTION WIRING DETAIL

(wire as shown below)
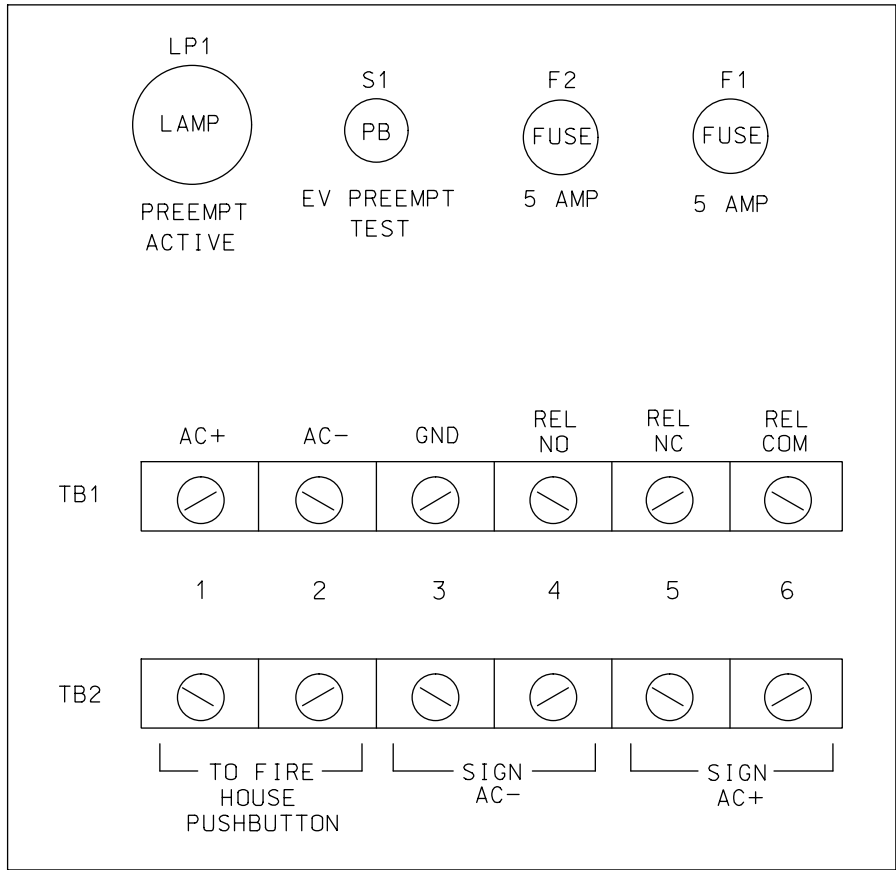
PREEMPTION AND PILOT LAMP CONTROL BOX

CABINET WIRING

(TB9-11) ISOLATOR CARD INPUT
TB1
(T1-1) EQUIP. GND.
(T1-2) AC-
(T1-5) AC+
K1 RELAY DPDT
SSR1
F2 FUSE 5A
14 AWG (MIN.)
MOV2
LP1 PREEMPT ACTIVE
S1 RR PREEMPT TEST
F1 FUSE 5A (NON-DELAY)
MOV1
MOV3
TB2

EXISTING PUSH BUTTON LOCATED IN FIRE STATION
NORMALLY CLOSED
EXISTING PILOT LAMP IN FIRE STATION

(TERM. 114) PHASE 2 PED YELLOW

AC NEUTRAL

NOTES

1. Relay K1 is shown in the energized (Preempt not active) normal operation state.

2. Relay K1 is a DPDT Relay with 120VAC coil and octal base.

3. Relay SSR1 is a SPST (normally open) Solid State Relay with AC input and AC (25 Amp) output.

4. AC Isolator Card shall activate preemption upon removal of AC+ from the input (as shown above). To accomplish this, set invert dip switch on AC Isolator Card.

5. Resistor is valued at 2K ohm, 12 watt.

6. RC network is valued at .1 microfarad, 100 ohm.

7. IMPORTANT!! A jumper must be added between input file terminals J14-E and J14-K if not already present. Also, terminal TB9-12 (on input panel) must be connected to AC neutral (jumper may have to be added).

NOTES

1. If field terminal 114 has a conflict monitor wire attached, remove, tape, and label wire.

2. Make sure load resistors are in place as shown in the Load Resistor Installation Detail on Sheet 1.

3. Install a loadswitch in Output File Slot S3.

FRONT VIEW

LP1 LAMP — PREEMPT ACTIVE
S1 PB — EV PREEMPT TEST
F2 FUSE — 5 AMP
F1 FUSE — 5 AMP

TB1: AC+ | AC- | GND | REL NO | REL NC | REL COM
1 | 2 | 3 | 4 | 5 | 6

TB2
TO FIRE HOUSE PUSHBUTTON | SIGN AC- | SIGN AC+

THIS ELECTRICAL DETAIL IS FOR
THE SIGNAL DESIGN: 06-0897T1
DESIGNED: Feb 2025
SEALED: 03/19/2025
REVISED:

Temporary Design 1 - TMP Phase IV, Step 4
Electrical Detail - Sheet 3 of 3

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED