Section 1

General Description

The TCPS Isolation Module Series (comprised of models TCPS-170, TCPS-NEMA and TCPS-IRM) are used to interface MS SEDCO's TC-Series of vehicle and pedestrian sensors with traffic control computers and protect the TC-Series sensors from potential damage caused by power problems inherent to intersections.

Model **TCPS-170** offers a single channel isolation input to 170, 179 and 2070 type controllers, configuring one 12V AC power output capable of operating up to two TC-Series sensors.

Model **TCPS-NEMA** offers a dual channel isolation input to NEMA Rack type controllers, configuring two 12V AC power outputs for operating up to two TC-Series sensors.

Model **TCPS-IRM** offers a single channel isolation input to NEMA Shelf type controllers, configuring one 24V AC power output for operating one TC-Series sensors.

Section 2

Basic Installation TCPS-170

1. The TCPS-170 is a single channel isolation module with 12V AC output to interface TC-Series sensors with Type 170 or 2070 traffic control computers.
2. When using the TCPS-170 with California version 332 & 336 cabinets, use only slots 1 through 9. When using in a 330 cabinet, all slots can be used.
3. The TCPS-170 supplies enough power for 2 TC-Series sensors.
4. The Bypass/Test switch is normally in the middle position. The Test position momentarily tests the card. Bypass allows a constant call.
5. The Power switch turns power to the TC-Series sensor(s) on or off. If power is on and LED isn't illuminated, check the fuses.
6. The TCPS-170 module requires a slot clearance of 1-1/8".
7. Example slot (1)   1A and 1B will be controller input relay common and normally open.
                        2A and 2B will be 12V AC output for TC-Series sensor.

TCPS-170 PIN ASSIGNMENTS:

PIN	FUNCTION	PIN	FUNCTION	PIN	FUNCTION
A	DC Ground	J	12V AC for sensor	S	Not Used
B	+24V DC	K	12V AC for sensor	T	Not Used
*	Key (bet B&C)	L	Chassis Ground	U	Not Used
C	Not Used	M	110V AC In	V	Not Used
D	Input #1	*	Key (bet M&N)	W	Not Used
E	Input #1	N	110V AC In	X	Not Used
F	Output #1 (C)	P	Not Used	Y	Not Used
H	Output #1 (E)	R	Not Used	Z	Not Used

* = Key Slots are between B&C and M&N   (C) = Collector   (E) = Emitter

TCPS-170

TCPS - 170

LED indicates that channel is in call

Bypass

Switch in center is normal, top is to bypass sensor, bottom is to test channel

Test

LED indicates power is applied and fuse is good

On

Switch turns power on & off

Power

Off

1/8 AMP.

TRANSFORMER #2

TRANSFORMER #1