

TCPS Series

Isolation Modules

TCPS-NEMA

INSTALLATION INSTRUCTIONS

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

1. The TCPS-NEMA is a dual channel isolation module with two 12V AC outputs to interface TC-Series sensors with NEMA Rack type traffic control computers.
2. The TCPS-NEMA supplies enough power for 2 TC-Series sensors.
3. Power is provided to the TCPS-NEMA module with an AC wire harness (included).
4. The TCPS-NEMA module requires a slot clearance of 1-1/8".
5. Example slot (1) 1A and 1B will be controller input relay common and normally open.
2A and 2B will be 12V AC output to TC-Series sensor.

TCPS-NEMA PIN ASSIGNMENTS:

PIN	FUNCTION	PIN	FUNCTION	PIN	FUNCTION
A	Logic Ground	K	Channel 2 Loop Input	U	Not Used
B	Sensor Unit DC Supply	L	Chassis Ground	V	Not Used
*	Key (between B&C)	M	Reserved (AC Neutral)	W	(+) Channel Output 2
C	External Reset	*	Key (between M&N)	X	(-) Channel Output 2
D	Channel 1 Loop Input	N	Reserved (AC Line)	Y	Not Used
E	Channel 1 Loop Input	P	Not Used	Z	Not Used
F	Channel 1 Output (+)	R	Not Used		
H	Channel 1 Output (-)	S	Not Used		
J	Channel 2 Loop Input	T	Not Used		

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

