



SPECIFICATIONS

Input	Passive device (Tilt Switch Probe) with maximum external contact resistance of 75K.
Output	Relay contact output of 2 Form "C" (DPDT) contacts with contact ratings of 10A, 240VAC
Power Requirements	105 – 125VAC 60 Hz @ 5 VA
Weight	6 lbs (2.7 Kg)
Temperature Range	Recommended: -40° to 140°F (-40° to 60°C)
Indication	Door mounted Normal and Alarm lights; PCB mounted LED (relay energized)
Alarm Delay	The Alarm signal is processed with an electronic variable time delay from 0 to 10 seconds. The delay is used to ignore unwanted spurious signals.
Fail Safe Operation	Loss of power will cause the relay to de-energize and provide an alarm condition.
Rating	NEMA 4 General Purpose. Not rated for classified operation.

OPERATING PRINCIPLES

The TSI using the Tilt Switch Probe is a point contact level system. It consists of the Tilt Switch Indicator that receives the contact closure from the Tilt Switch Probe and displays the closure status on the front panel of its NEMA 4 enclosure using Normal and Alarm LED lights. In addition, the TSI contains a DPDT relay for auxiliary usage.

The Tilt Switch Probe is made of stainless steel and comes with either standard or high temperature cable. In addition to the standard probe, it can be supplied with a wear extension for highly abrasive applications, a flat paddle or cross paddle extension for low-density applications and a float extension for liquid applications.

INSTALLATION

Install TSI in a clean, dry, vibration-free, non-hazardous area. Install in an area that is within the operating temperature ranges and a non-corrosive environment to the electronics and/or the NEMA 4 enclosure. The enclosure door should be accessible for viewing. Installation and wiring should be in compliance with all local electrical codes. Do not mount unit in direct sunlight.

To ascertain that the unit is functional, disconnect all controlled and alarm devices. Apply power and alternately short and open terminals 1 and 2 on 2 TB. The indicating lights should turn on in alternate succession and the relay visibly function. If a light or relay does not function, it may require changing. If fuse, lamp or relay replacement does not correct problem, return unit to factory.

See instruction manual drawings for dimensional and interconnection information.



