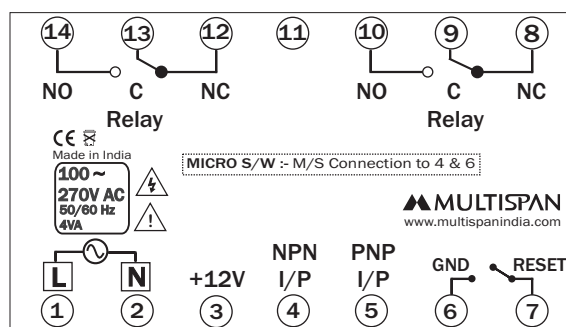
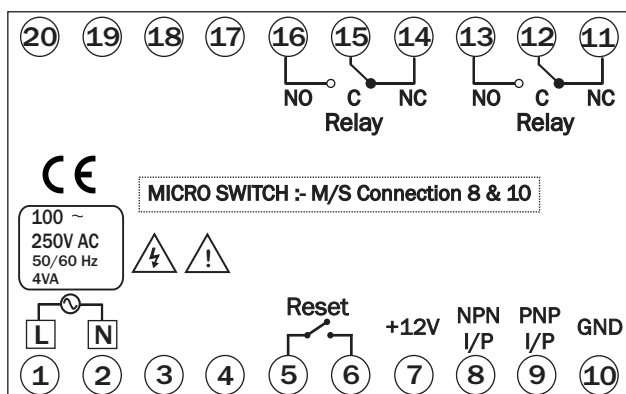




Technical Specification

Model	TWS - 1400F	TWS - 2500F
Display	4 Digit 7 seg 0.56",red LED Display	
Size(HXWXD)	96 X 96 X 50 mm	72 X 72 X 45 mm
Panel Cutout	92 X 92 mm	68 X 68 mm
Input	Proximity NPN / PNP (Selectable) & Micro Switch	
Output	1 relay, 2 C/O contact, 230V AC, 5A	
Power Supply	100 to 250V AC, 50 Hz, Approx 4VA SMPS	
Memory	Yes / No (Selectable)	
Delay ON/ Delay OFF	Selectable	
Over Counting / No Over Counting	Selectable	
Speed Selection	Selectable	
Protection Level (As per request)	IP-65(Front side) AS per IS/IEC 60529:2001	
Operating Temperature	0° C To 55° C	Relative Humidity
		Up to 95% RH Non Condensing

Connection Diagram




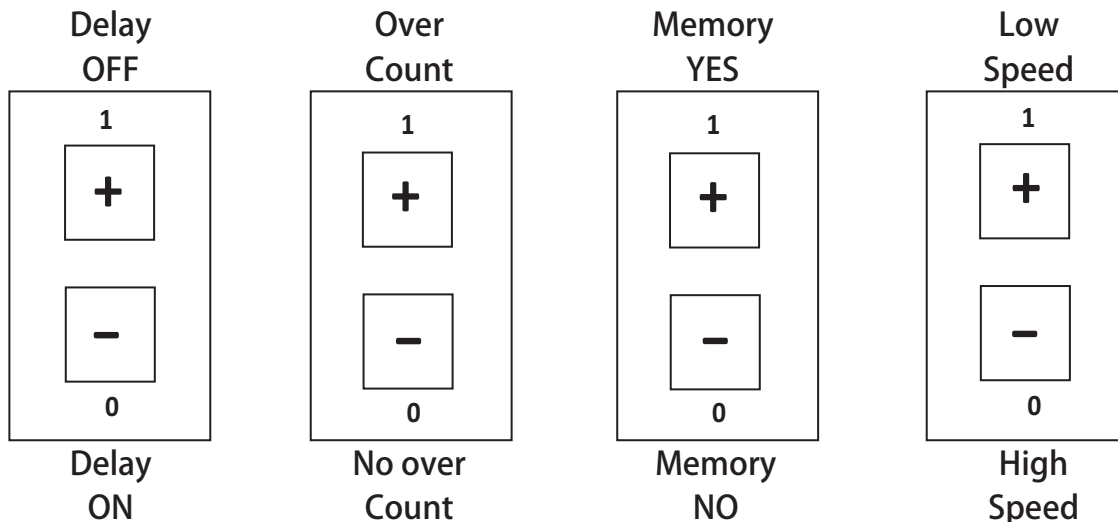
How to Set the Auto Manual Time

- 1).  Key used for reset count and set Auto Reset Time.
- 2). Press Reset key for 10 seconds to Enter in set mode. To change the value of Auto Time hold  key in pressed condition and select value from thumb wheel switch. If you release reset key then it will take that value at the time of releasing key.



Function	Display	Range
Auto Manual Time	00.1	00.1-99.9 Sec.

Note

- 1). Unitial Press  Key then turn ON instrument.
- 2). When display will be blinking, then do required change by using thumbwheel switch.



Working

- 1). Count can be set by Thumb wheel Switch.
- 2). If you set Time=00.0 SECOND then it will be in MANUAL MODE and if you set TIME=0.01 To 99.9 SECOND then it will be in AUTO RESET MODE.
- 3). At set Count Relay will turn ON and RED LED will turn on right hand side.
- 4). Relay remain on until AUTO RESET TIME is over.
- 5). If you set TIME 00.0 seconds then Relay will remains in on condition until  key is pressed.
- 6). To reset the count press  key for 2 seconds.
- 7). To set parameter Like Delay ON / Delay OFF, Over Count / No Over Count, Memory Yes / No Speed select on Refer following pattern.

Safety Precautions

All safety related codifications, symbols and instructions that appear in this operating manual or on the equipment must be strictly followed to ensure the safety of the operating personnel as well as the instrument.

If all the equipment is not handled in a manner specified by the manufacturer, it might impair the protection provided by the equipment .

=> Read complete instructions prior to installation and operation of the unit.

 **WARNING** : Risk of electric shock.

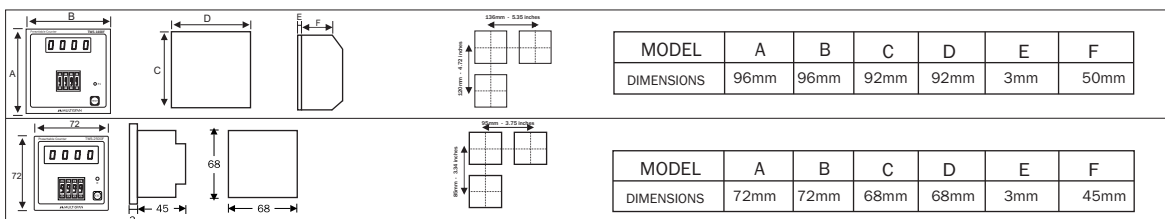
Warning Guidelines

- 1) To prevent the risk of electric shock power supply to the equipment must be kept OFF while doing the wiring arrangement. Do not touch the terminals while power is being supplied.
- 2) To reduce electro magnetic interference, use wire with adequate rating and twists of the same of equal size shall be made with shortest connection.
- 3) Cable used for connection to power source, must have a cross section of 1mm^2 or greater. These wires should have insulations capacity made of at least 1.5kV.
- 4) A better anti-noise effect can be expected by using standard power supply cable for the instrument.

Installation Guidelines

- 1) This equipment, being built-in-type, normally becomes a part of main control panel and such in case the terminals do not remain accessible to the end user after installation and internal wiring.
- 2) Do not allow pieces of metal, wire clippings, or fine metallic fillings from installation to enter the product or else it may lead to a safety hazard that may in turn endanger life or cause electrical shock to the operator.
- 3) Circuit breaker or mains switch must be installed between power source and supply terminal to facilitate power 'ON' or 'OFF' function. However this mains switch or circuit breaker must be installed at convenient place normally accessible to the operator.
- 4) Use and store the instrument within the specified ambient temperature and humidity ranges as mentioned in this manual.

Mechanical Installation



- 1) Prepare the panel cutout with proper dimensions as show above.
- 2) Fit the unit into the panel with the help of clamp given.
- 3) The equipment in its installed state must not come in close proximity to any heating source, caustic vapors, oils steam, or other unwanted process by products.
- 4) Use the specified size of crimp terminal (M3.5 screws) to wire the terminal block. Tightening the screws on the terminal block using the tightening torque of the range of 1.2 N.m.
- 5) Do not connect anything to unused terminals.

Maintenance

- 1) The equipment should be cleaned regularly to avoid blockage of ventilating parts.
- 2) Clean the equipment with a clean soft cloth. Do not use isopropyl alcohol or any other cleaning agent.
- 3) Fusible resistor must not be replaced by operator.

Note: