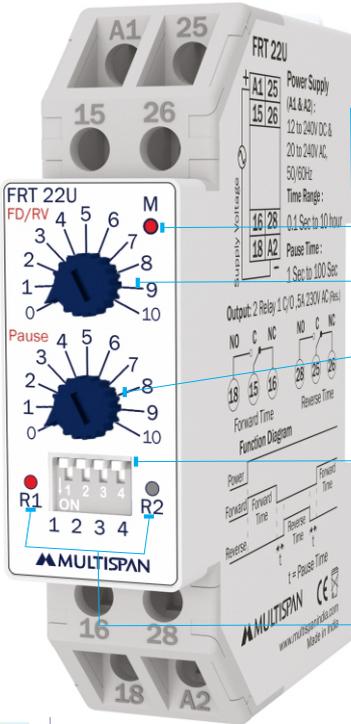




# Forward Reverse Timer

## FRT 22U



### MAIN LED

for visualisation of power supply status

### KNOB

for forward reverse time setting

### KNOB

for Pause time setting between forward & reverse function

### PIANO SWITCH

for unit & range selection

### RELAY OUTPUT

1st Relay output for forward time & 2nd Relay output for reverse time



**Power Supply :** 12V DC to 240V DC & 20 to 240V AC, 50/60 Hz

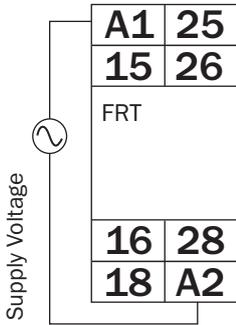


**Output:** 2 Relay O/P, 1 C/O, 5A 230 VAC (Resistive Load)  
1st Relay for forward time & 2nd Relay for reverse time

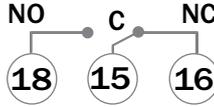


**Forward & Reverse Time Range :** 0.1 sec to 10 hour  
**Pause Time :** 1 sec to 100 sec

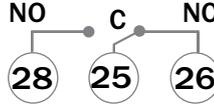
# Terminal Connection:



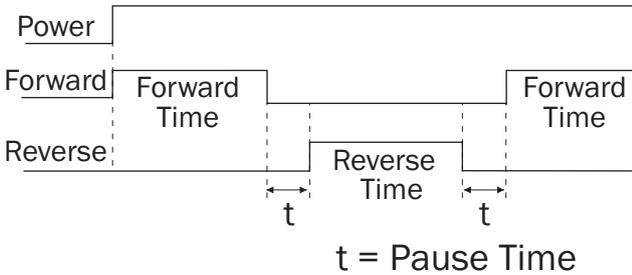
Forward time connection



Reverse time connection



# Timing Diagram:

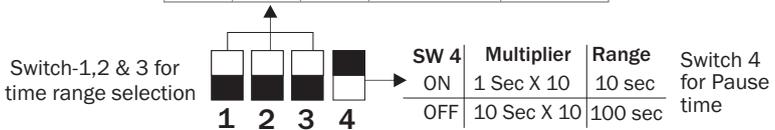


# Dip switch selection:

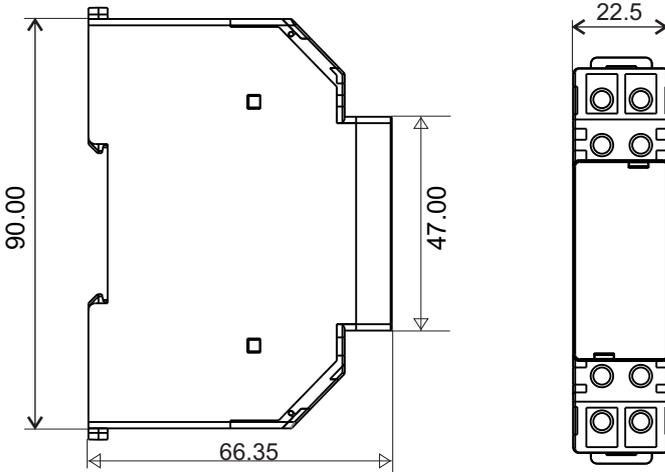
OFF

ON

SW 1	SW 2	SW 3	Multiplier (Knob Indication)	Range
ON	ON	ON	0.1 Sec X 10	1 Sec
OFF	ON	ON	1 Sec X 10	10 Sec
ON	OFF	ON	3 Sec X 10	30 Sec
OFF	OFF	ON	10 Sec X 10	100 Sec
ON	ON	OFF	1 min X 10	10 Min
OFF	ON	OFF	3 min X 10	30 Min
ON	OFF	OFF	10 min X 10	100 Min
OFF	OFF	OFF	1 Hrs. X 10	10 hrs.



# Dimension



**NOTE:**  
All dimension are in mm.

## SAFETY PRECAUTION

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



**WARNING :** Risk of electric shock.

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 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 in such 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 GUIDELINES

- 1) To install the instrument on a DIN rail, raise the clamp at the back of the instrument and place it on the rail. Now release the clamp, so the instrument fits on the DIN rail.
- 2) Ensure proper fitting of the instrument by pulling it outwards.
- 3) To remove the instrument raise the clamp to release it from the DIN rail.
- 4) The equipment in its installed state must not come in close proximity to any heating source, caustic vapors, oil steam, or other unwanted process byproducts.
- 5) Do not connect anything to unused terminals.

Multispan reserves the right to change specifications without prior notice. Printing and typographical errors reserved.  
Product improvement and upgrade is a constant procedure.

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