

OPERATING INSTRUCTION

BLIND TIMER

NUTRONICS

Model	Dimensions (W x H x D) mm
BT-10	96X96X110
WT-30, WT-01	54 x 74 x 95 Wall Mounting
BT-100	48X48X85
BT-100 U	48X48X85
999	DIN Rail (4 Dip)
999U	DIN Rail (8 Dip)

SAFETY SUMMARY:

This manual is meant for personnel involved in wiring, installation, operation, and routine maintenance of equipment. 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 the equipment is not handled in a manner specified by the manufacturer, it might impair the protection provided by the equipment.

CAUTION : Read complete instructions prior to installation and operation of the unit.

CAUTION : Risk of electric shock.

INSTALLATION INSTRUCTIONS :

1. This equipment, being built-in-type, normally becomes a part of the main control panel and in such case the terminals do not remain accessible to the end user after installation and internal wiring.
2. Conductors must not come in contact with the internal circuitry of the equipment or else it may lead to a safety hazard that may in turn endanger life or cause electrical shock to operator.
3. Circuit breaker or mains switch must be installed between power source and supply terminals to facilitate power 'ON' or 'OFF' function. However the switch or breaker must be installed in a convenient position normally accessible to an operator.

CAUTION:

1. The equipment shall not be installed in environmental conditions other than those specified in this manual.
2. Fuse protection: The equipment does not contain built in fuse. Installation of external fuse for electrical circuitry is highly recommended. Recommended rating of such fuse shall be 275VAC / 1Amp.
3. Since this is a built-in-type equipment (finds place in main control panel), its output terminals get connected to host equipment. Such equipment shall also comply with basic EMI / EMC and safety requirement.
4. The output terminals shall be strictly loaded to the manufacturer specified values / range

INSTALLATION GUIDELINES:

Mechanical Installation : For installing the controller

1. Prepare the panel cutout with proper dimensions as shown below;
2. Remove the clamp from the controller.
3. Push the controller into the panel cutout. Secure the controller in its place by pushing the clamp on the rear side. The screw of the panel of the clamp, must be in the farthest forward slot
4. For proper sealing, tighten the screw, evenly with required torque.

CAUTION:

The equipment in its installed state must not come in close proximity to any heating source, caustic vapors, oil, steam. Or other unwanted process by products.
EMC Guidelines:

1. Use proper input power cables with shortest connections and twisted type.
2. Layout of connection cables shall be away from any internal EMI source.

SPECIFICATION :

CONTROL ACTION Reverse/ Forward (Star/Delta) Type, ON delay, OFF delay as specified

SETTING BY Dial Type Knob

TIME RANGE 0 -12 Sec., 0 - 30 Sec., 0 -60 Sec., 0 -12Min., 0 - 30 Min., 0 -60 Min, 0-60 Hrs. as specified

POWER SUPPLY 180-230VAC ±10%

Specification subjected to change without prior notice.

OPERATING CONDITIONS :

HUMIDITY UPTO 95% OF Rh

OPERQTING TEMP. 0-50°C

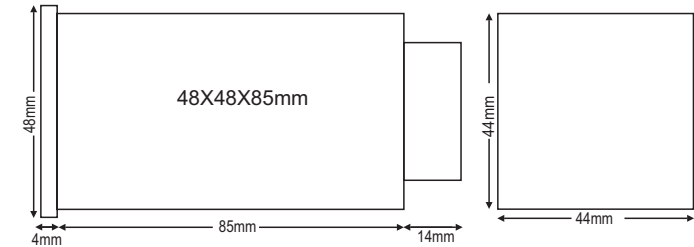
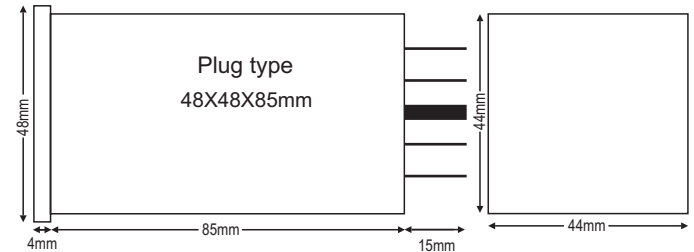
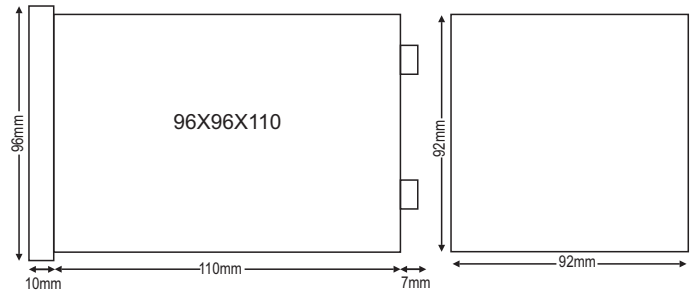
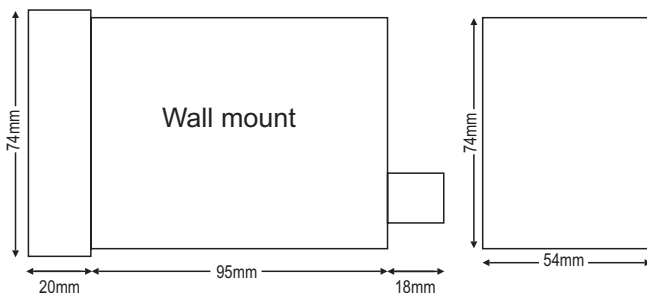
CABINET MATERIAL : ABS Plastic or Flame Retendant Plastic.

ACCESSORIES :

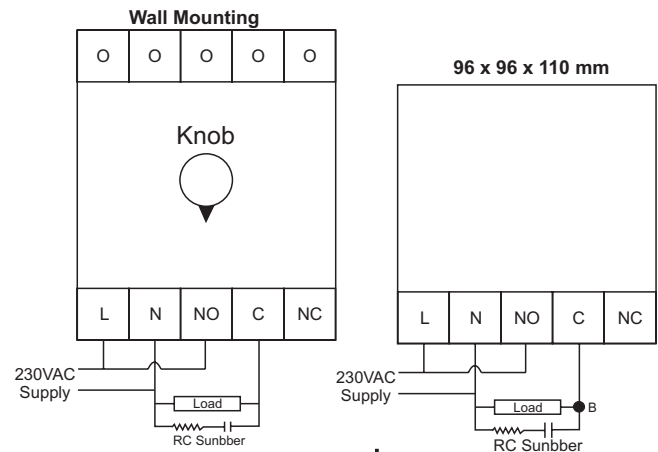
TWO SIDE MOUNTING CLAMPS ARE PROVIDED

Front Panel Cover (Optional)

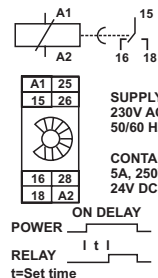
PANEL DIAMENSION :



CONNECTION DIAGRAM :

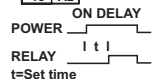


TIMER MODEL 999

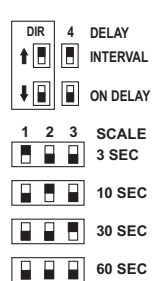


SUPPLY (A1/A2):
230V AC, ±20%
50/60 HZ

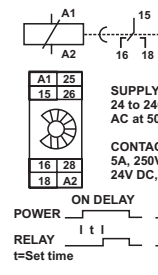
CONTACT :
5A, 250V AC/
24V DC, RESISTIVE



SWITCH SETTINGS

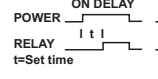


TIMER MODEL 999U

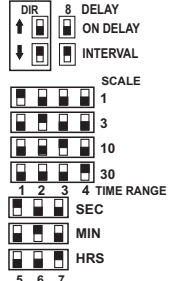


SUPPLY (A1/A2):
24 to 240 V AC/DC
AC at 50/60 HZ

CONTACT :
5A, 250V AC/
24V DC, RESISTIVE



SWITCH SETTINGS



For delay 'OFF'
connect B point to NC
Maximum load 5A@230VAC
Use snubber to increase the life of internal relay

