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OWNER'S MANUAL

LIQUID DILATATION THERMOSTAT

REFERENCE 9030 - 01

1 - APPLICATION :

Temperature regulation or limitation for liquids, gases or solids.

2 - DESCRIPTION :

- Bulb type (Ø 6 mm, length 140 mm) and copper capillary (length 1 m) liquid dilatation thermostat.
- Operating temperature range : 0°C to 70°C.
- Potential-free inverter contact.
- Breaking capacity : 10 A / 250 VAC.
- Maximum operating voltage : 400 V.
- Differential : 4 % of full scale.
- Connection by screw terminals.
- Mounting on support (inside case or box for instance).

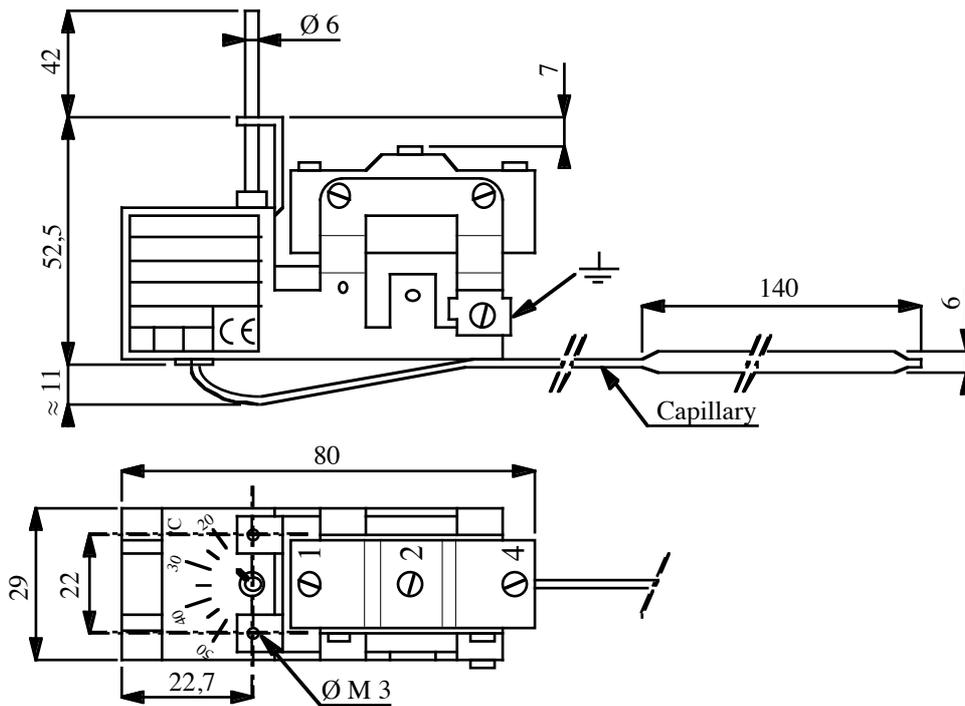
3 - PRECAUTIONS FOR USE :

- Handle the capillary with care. It must never be pierced as this could cause the final destruction of the equipment. Allow a forming radius in excess of 5 mm.
- Check that the material of the bulb and capillary is compatible with the product being tested in the event of it being in direct contact with it.

4 - ASSEMBLY AND ELECTRICAL CONNECTION :

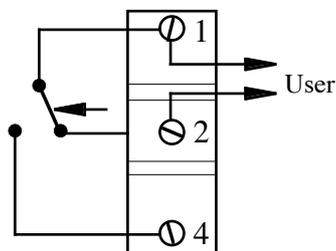
4 - 1 - ASSEMBLY :

- On the support to receive the thermostat (attaching tab), drill two 4 mm Ø attaching holes (diametrically opposed) on a 22 Ø radius centered on that of the setpoint adjusting screw axis, ensuring that the equipment is turned as necessary (see drawing below) ; the support shall be designed in such a way that the setpoint adjusting screw and its vernier are accessible.
- Attach the thermostat to the support by means of 2 Ø M 3 screws.
- Install the bulb, generally in a thermometer well (for liquids and gases) or in a cylindrical housing (for solids) having an inside diameter slightly greater than that of the bulb so as to preserve good thermal conduction. It is advisable to confirm the conduction using appropriate thermal grease.



4 - 2 - ELECTRICAL CONNECTION :

Set-up the diagram shown below :



- Ensure that each Faston terminal is properly located and tightened.
- Be sure to connect the ground terminal to the installation ground.

5 - COMMISSIONING PROCEDURE :

- Using an adjusting screw set the index on the temperature setpoint desired on the dial.
- Energize the heating installation, first checking that the installation operating conditions are satisfied.
- Before the nominal temperature is reached, make sure the operation of the thermostat adjusting screw causes heating to stop and restart. Relocate this adjusting screw by setting it to the operating temperature setpoint.

NOTE : The information on the vernier of the thermostat knob is not accurate enough to be sure that the temperature obtained is exact. Proceed by successive readjustments of the setpoint to obtain the desired temperature, measuring it with a thermometer.

6 - SERVICING :

Periodically (at least once each year) make sure that :

- The Faston terminals are tight and in place
- When testing a pollutant fluid, clean the bulb (and the thermometer well if necessary) without damaging it in the eventuality of their being a deposit in the well (fouling could distort the temperature measurement because of the obstruction of thermal exchange).

7 - GUARANTEE :

The guarantee is in conformity with the inter-union agreements of the Electrical Construction industry and our general conditions of sale.

Any deterioration caused by :

- use at more than 10% of the rated voltage provided for,
- an excess in the cut-off capacity of the equipment,
- wear caused by a lack of servicing, shock, clumsy handling or inexperienced users,
- failure to comply with this manual, the state-of-the-art rules and the legislation,
- phenomena of corrosion or fouling,

cannot be considered binding upon our responsibility.