



# MTIC

## Mechanical capillary thermostat

MTIC is a series of high quality electro-mechanical thermostats for use in cooling, heating and ventilation systems.

- Wide setpoint range
- Adjustable or fixed hysteresis
- 2-step design available

The MTIC electro-mechanical thermostats are constructed around a fluid-filled capillary tube and sensor housing that transfers the changes in temperature to a change-over relay. The relay is capable of breaking up to 15 A at 230 V AC.

### Hysteresis

1-step models are available featuring either fixed or adjustable hysteresis.

2-step models have fixed hysteresis. See model list overleaf.

- Breaking capacity 15 A at 230 V AC
- Protection class IP65

### Step differential

In the 2-step thermostats, the step differential can be adjusted 2...5 K.

### Setpoint adjustment

Models are available with setpoint adjustment via a knob mounted either on or under the unit cover.

Models

Type	Temperature range	Steps	Hysteresis	Step diff. max.	Max. bulb temp.	Suitable immersion well	Hidden setpoint
MTIC30S	-30...+30°C	1	2...20 K		60°C	DR-01/02	
MTIC30H	-30...+30°C	1	2...20 K		60°C	DR-01/02	•
MTIC30-2	-30...+30°C	2	1 K	2...5 K	60°C	DR-01/02	
MTIC30	-30...+30°C	1	1 K		60°C	DR-01/02	
MTIC30R	-30...+30°C	1	Manual min. reset		60°C	DR-01/02	
MTIC90S	20...90°C	1	2...20 K		100°C	DR-01/02	
MTIC90H	20...90°C	1	2...20 K		100°C	DR-01/02	•
MTIC90	20...90°C	1	1 K		100°C	DR-01/02	
MTIC90R	20...90°C	1	Manual max. reset		100°C	DR-01/02	
MTIC120S	50...120°C	1	2...20 K		150°C	DR-16/17	

Accessories

Name	Description
DR-01	Brass immersion well 120 mm, 12 x 1
DR-02	Stainless steel immersion well 120 mm, 12 x 1
DR-16	Brass immersion well 120 mm, 10 x 0.5
DR-17	Stainless steel immersion well 120 mm, 10 x 0.5

Technical data

Sensitive element	Liquid-filled copper bulb
Bulb dimensions	Ø 9.5 (Ø 8 for range +50...+120°C)
Length capillary	150 cm
Contacts	Dust-tight microswitches with SPDT contacts (heat/cool)
Switch capacity	15 (8) A, 24...250 V AC
Ambient temperature	-35...+65°C
Ambient humidity	10...90 % RH (non-condensing)
Housing	Bayblend® base, ABS cover
Protection	IP65, class I
Weight	340 g

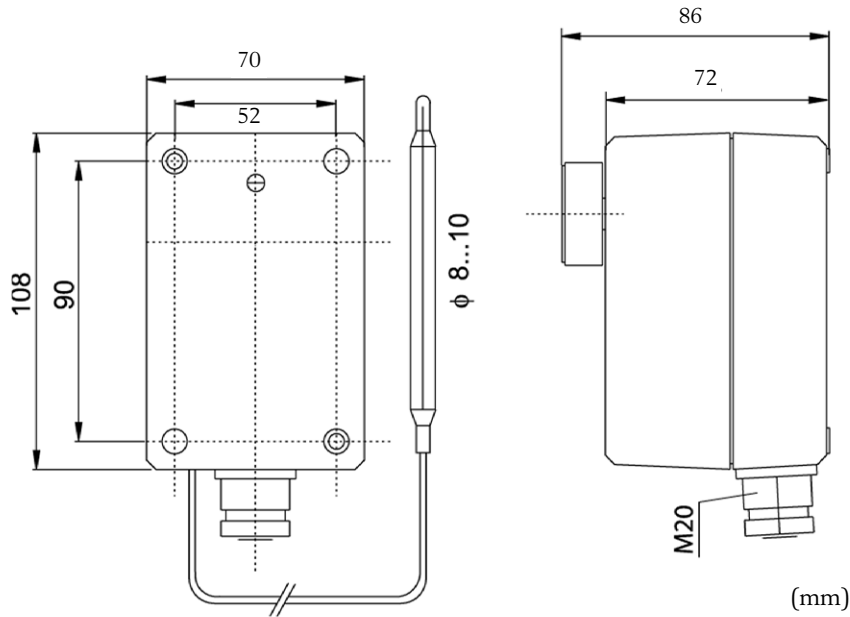


**Low Voltage Directive (LVD) & EMC emissions & immunity standards:**

This product conforms to the requirements of the European Low Voltage Directive (LVD) 2006/95/EC and to the requirements of the EMC Directive 2004/108/EC through product standard EN 60335-1.

**RoHS:** This product conforms to the Directive 2011/65/EU of the European Parliament and of the Council.

## Dimensions



## Wiring

### Heating

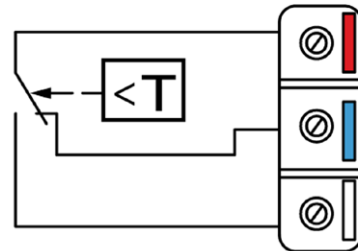
Connect to the red and blue terminal. The contact will open when the temperature rises.

For 2-step versions, the step 2 contact will open first when the temperature rises, followed by the step 1 contact.

### Cooling

Connect to the red and white terminal. The contact will open when the temperature drops.

For 2-step versions, the step 2 contact will open first when the temperature drops, followed by the step 1 contact.



## Product documentation

Document	Type
MTIC_inst	Instruction for MTIC

The document can be downloaded from [www.regin.se](http://www.regin.se).

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