



# INSTRUCTION TV



Read this instruction before installation and wiring of the product

12890A JUN 17



Consult documentation in all cases where this symbol is used, in order to find out the nature of the potential hazards and any actions to be taken

## Immersion thermostats

TV is a series of immersion thermostats for temperature control in systems for heating and cooling.

### Technical data

Sensor element	Liquid-filled copper bulb
Contacts	Dust-tight microswitches with SPDT contacts (heat/cool)
Breaking capacity	With SPDT contact: NC 250 V AC 16 (6) A / NO 250 V AC 6 (4) manual maximum reset: NC 250 V AC 16 (2,5) A / NO 250 V AC 0,5 A
Ambient temperature	-35...+65 °C
Ambient humidity	10...90 % RH (non-condensing)
Storage temperature	-20...+70 °C
Storage humidity	< 95 % RH
Housing	Bayblend® base, ABS cover (2 stage models: sealed ABS)
Protection class	IP54
Isolation class	I
Weight	one-stage 440g; two-stage 560 g
Dimensions	180x70x72mm (132x88x70 two stage)

Article	Temp. range 1	Temp. range 2	Hysteresis range 1	Hysteresis range 2
TV090	0...90°C	-	4±1 K	-
TV090U	0...90°C	-	4±1 K	-
TVR6585	65...85°C	-	20±5 K	-
TVR90110	90...110°C	-	20±5 K	-
TV09090U	0...90°C	0...90°C	4±1 K	4±1 K
TV090UR85	0...90°C	65...85°C	4±1 K	20±5 K

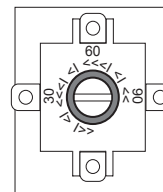
Article	Max. Bulb Temperature	Function	Hidden Set point
TV090	0...90°C	With SPDT contact	-
TV090U	0...90°C	With SPDT contact	X
TVR6585	65...85°C	Maximum manual reset	-
TVR90110	90...110°C	Maximum manual reset	-
TV09090U	0...90°C	With SPDT contact	X
TV090UR85	0...90°C	Maximum manual reset with SPDT contact	-



Before installation or maintenance, the power supply must first be disconnected in order to prevent potentially lethal electric shocks! Installation or maintenance of this unit should only be carried out by skilled professionals.

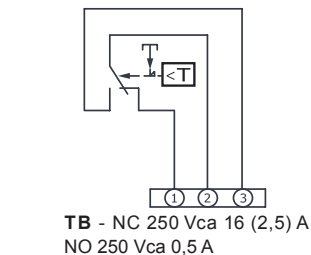
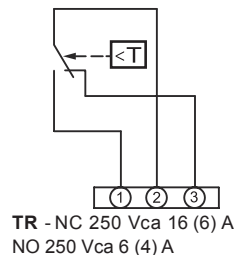
### Installation

The unit can be mounted in any position. Unscrew both screws on the cover. Use the supplied screws when mounting on wall or other surface. Set desired temperature range by turning the screw under the cover.

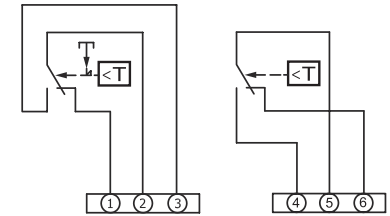


### Wiring

TR= with SPDT contact TB= manual maximum reset.

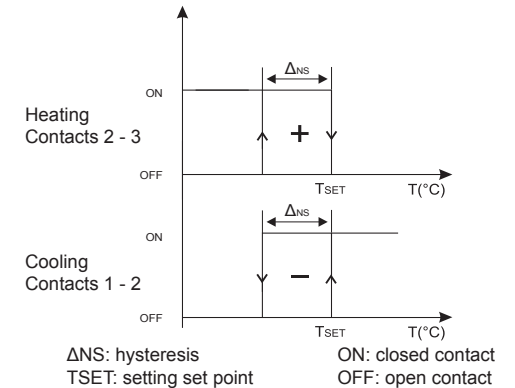


TV



TB - NC 250 Vca 16 (2,5) A + NO 250 Vca 0,5 A  
TR - NC 250 Vca 16 (6) A + NO 250 Vca 6 (4) A

### Activation logic (only for TR function)



### Reset

The set range may be reset by carefully turning screw under the cover.



### Low Voltage Directive (LVD) standards

This product conforms to the requirements of the European Low Voltage Directive (LVD) 2014/35/EU through product standards EN 60335-1.

### RoHS

This product conforms to the Directive 2011/65/EU of the European Parliament and of the Council through standard EN 50581:2012.

### Contact

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