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RT-824

TEMPERATURE REGULATOR



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F&F products are covered by an 24 months warranty from date of purchase

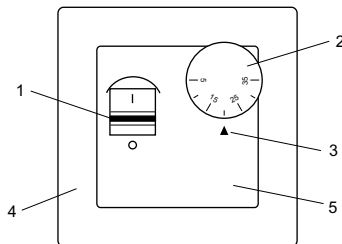
PURPOSE

Regulator RT-824 is intend to control heating device supplied from voltage 230V and current load max to 16A.

FUNCTIONING

Regulator work with one of three work mode: work with outside sensor, work with inside sensor and work with two sensors.
For time to arrival ordered value regulator joint is close (is shine LED red) and heating device is enclose. After arrive this value joint is open and heating device is exclude.
If temperature fall by hysteresis value it cause enclose heating device to arrive ordered value. Turn OFF regulator by switch, which is situated in front panel cause disconnect all heating system.

FRONT PANEL



- 1 - switch(O - turn OFF; I - turn ON)
- 2 - whole to temperature settings
- 3 - point of setting temperature / heating signalisation
- 4 - frame
- 5 - cover

WORK MODE SETTINGS

Set to work mode is possible by dowel mix of joint K1 and K2. Joints are situated in regulator box on plate (left down side). Take off a dowel from joints by hand or tweezers. Choose work mode and put a dowel in correct mix. Pressing with use small strength.

WORKS MODES

Work with inside sensor

Regulator work with measurement temperature by "air" sensor which is install inside regulator box. When sensor is break, then regulator pass to safe automatic mode which try hold ordered temperature by information from memory device (save story of enclose and exclude heating device).

Work with outside sensor

Regulator work with measurement temperature by "floor" sensor which is connect by cable to regulator. When outside sensor is break then regulator pass to work mode with inside sensor. But when two sensors will break then regulator pass to safe automatic mode which try hold ordered temperature by information from memory device (save story of enclose and exclude heating device).

Work with two sensors

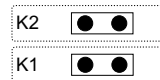
In this case the measurement sensor by which is control regulation is inside sensor. Outside sensor limiting value to 27 °C independent of setting value. When ones sensors is break then regulator pass to safe model work which try hold 80% ordered value.

DOWEL MIX



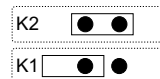
Never make changes with dowel places when supply is turn ON. It cause give a electric shock.

Work with inside sensor



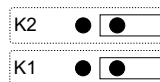
Contacts K1 and K2 are closed.

Work with outside sensor.



Contact K1: dowel is put on the left joint.
Contcts K2 are closed.

Work with two sensors.



Contacts K1 and K2: dowel is put on the right joint.

ASSEMBLY

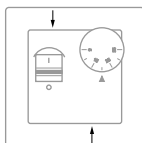


Do not install device which is break or incomplete.

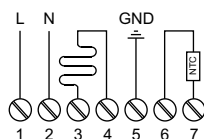


Do not install device in rooms where is high humidity, for example bathroom.

1. Take OFF the power.
2. By flat screwdriver carefully press catches (arrow signs) which hold regulator box.
3. Take OFF the cover and regulator frame. (carefully to not break electronic system).
4. Put dowel in correct position for chosen mode (see DOWEL MIX point).
5. Connect with wiring diagram.
6. Set down regulator part in under plaster box, and screw on by screws
7. Take ON the frame and press cover.



WIRING DIAGRAM



OUTPUTS DESCRIPTION



During assembly of regulator take care. Wrong connection will cause give electric shock or/and break receiver which is supplied by regulator.

- 1 - regulator supply L
- 2 - regulator supply N
- 3/4 - outputs to connect heating system
- 5 - protective cable PE

TECHNICAL DATA

supply	230V AC
current load	<16A
joint	1NO
range of regulation temperature	5+35°C
hysteresis setting range	3°C
setting precision	1°C
precision	±1°C
temperature sensor	NTC
length of probe cable	2,5m
power consumption	0,8W
working temperature	-20+50°C
terminal	screw terminals 1,5mm ²
dimensions	
front	83,5×83,5mm; de.22mm
back	Ř50; de.27,5mm
fixing	under plaster box Ř60
outside sensor	NTC
dimensions	Ř7; h=25mm
isolation	bush PC
cable	PC2×0,34mm ² ; l=3m

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