BasicRegulate Temperature

Electrical diagram

230V AC
230V AC out max 2A

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RPM
0-10V
GND

Tacho/rpm
0-10V output
GND

Operation

Operating
Alarm

ON ● ! ●

27
25
23
22
21
20
19
18
16
14
T°C

Basic Regulate T

LSCONTROL

Pushbuttons
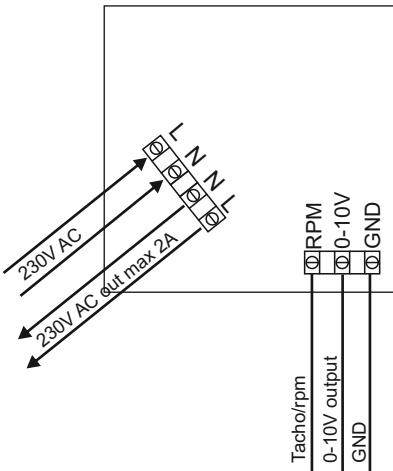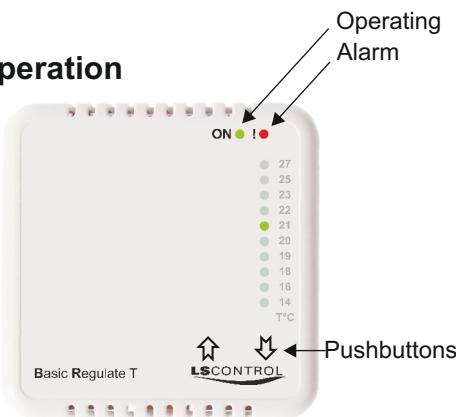
Press the arrow-up or down shortly to get the current temperature value.
Pressing either arrow-up or down for 3sec. opens the possibility of changing
the temperature set-point. Use arrow up/down to adjust he value op or down.
Set-point is locked after 10sec.

Connection to EC-Motor

RPM
0-10V
GND

EC motor

TACHO
0-10V
GND
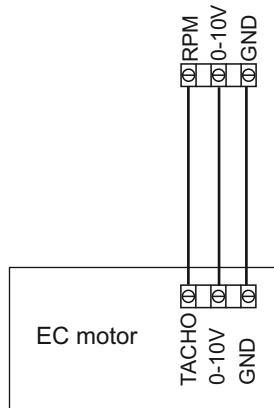
## Connection for damper/Ventilator or filter monitoring

RPM
0-10V
GND

Ventilator
/
damper

0-10V
GND

Pressure switch
Contact closes at OK
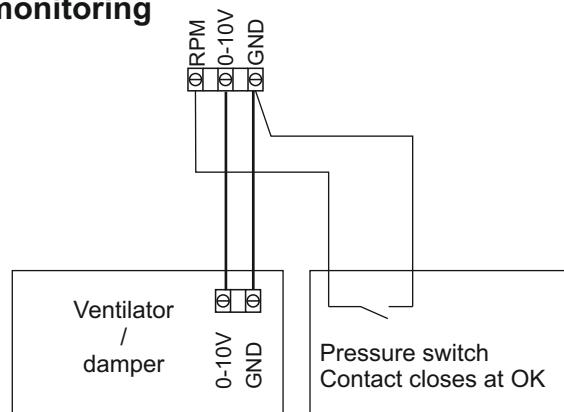
NOTE: If BasicRegulate is not connected to neither EC-motor nor PressureSwitch the GND and RPM clamps must be connected to each other and input type must remain at default setting (pressureSwitch)

Technical Specifications:
Power Supply: 230V AC 50Hz ±10%
0-10V Output: 5mA
230V Output: Max 2A !
Working Area, Temperature: 0-40°C
Adjustment Area, Temperature: 14-27°C

Enclosure: IP20
Dimensions: 85x85x30mm

Description:
Regulator with build-in sensor and warning light.
The regulator supply a 0-10V output signal for a ventilator, damper or other equipment. Minimum output signal is adjustable.

BasicRegulate has a green LED lit, when operating and a red LED warning light which can be used for filter monitoring (if a pressure switch is connected) or for monitoring Tacho signal or rpm from an EC-motor / ventilator. If the 0-10Volt output is lower than 1.7Volt, the tacho / pressure switch is not monitored.

Default settings:
Minimum output (0-10V): 2Volt
Regulation direction: DOWN (Lower temperature gives higher output)
Input type (tacho or pressure switch): Pressure Switch
.
Changing default settings:
Simultaneously press down arrow up/down buttons for 30sec. until both operating and warning LED flashes.
Minimum output can now be adjusted up or down using the arrow up/down buttons. The lowest LED represents 0V, each LED represent 1V up to 10 LEDs lit= 9V)
After 10sec.without pressing any keys the possibility of altering the regulating direction opens. - The 3 lowest LEDs will be flashing when regulating direction is lower temperature - higher output. Push arrow up - then the top 3 LED flashes, to change direction to higher temperature - higher output).
After another 10sec. without using the arrow up/down buttons it will be possible to set input type to tacho or pressure switch. Pressure switch is indicated by the 4 LEDs in the middle are constantly lit - to change this setting to tacho - press the up/down arrow - when the 4 LEDs in the middle flashes tacho input is selected.
BasicRegulate returns to measure- / regulation mode 10sec after last keystroke at the end of above cycle.

Mounting:

Mount directly on wall or on top of a wall panel.