Sensor

SR59X3X0 v1.1

General description

The SR59X3X0 model is a temperature sensor flush-mounted in box with vented cap mechanism, which also incorporates PI control thermostat functions and a small logic module.

It is suitable for use as an additional temperature probe for any KNX temperature control system but also can be used as a main control thermostat in a room as it incorporates all necessary functions for it.

It allows you to control heating or air conditioning using a simple 2-point control with hysteresis or more advanced form using PI automatic regulation algorithms with output pulse width (PWM) modulation or continuous value. Using IP, a more precise control of the room temperature, improving comfort and energy saving, is achieved.

Used as the main controller allows referring its own internal temperature measure or any external sensor measure. It also lets you add an additional on/off heat or cold output to control the main climate system support. You can program the heating and cooling modes switched for different seasons or simultaneously for places with more variations of temperature. Moreover, the logic unit allows to program simple logic operations using bus objects, for example to control a floor heating recirculation according to several rooms.

Besides, it incorporates humidity sensor.

Characteristics

- Temperature sensor 0 to 51°C
- Humidity sensor.
- Temperature Controller: 2 points, or continuous PWM.
- PI control algorithm.
- Control system hot / main heat output and additional on/off.
- Simple logic unit.

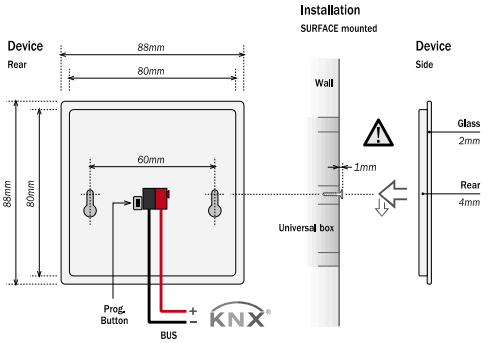
Technical information

Supply	29V_{DC} from KNX BUS
Consumption	10 mA from KNX BUS*
Mounting	Built-in on universal distribution box
Size	88 x 88 x 6 mm
Connections	Connection terminal KNX bus.
Environment temperature range	Operation: -10ºC a 55ºC Storage: -30ºC a 60ºC Transportation: -30ºC a 60ºC
Regulation	According to the directives of electromagnetic compatibility and low voltage. EN 50090-2-2 / UNE-EN 61000-6-3:2007 / UNE-EN 61000-6-1:2007 / UNE-EN 61010-1

**Equivalent to 2 BUS devices (1 BUS device = 5mA)*

Installation

The device is installed hanging from the two parallel grooves on its rear.
*Two **conical head screws** are used in wall and/or universal mechanism box.*
*It is **VERY IMPORTANT** that the screws head excels **1mm** from the wall.*



Remarks

Feed low voltage lines (KNX bus and inputs) in separate ducting to that of power (230V) to ensure there is enough insulation and avoid interferences.

Do not connect the main voltages (230V) or any other external voltages to any point of the KNX bus.

QR-Code

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