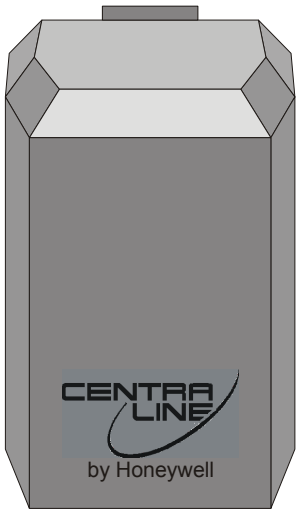
CLSN1T10
Outdoor Temperature Sensor

Product Data



SPECIFICATIONS

Sensor element	NTC thermistor
Resistance	20 Kohm at 25 °C
Operating range	-30...+60 °C
Dimensions (H x W x D)	95 x 65 x 70 mm
Housing	Plastic (ABS)
Mounting	Wall mounting
Electrical connection	Terminals for 2 x 1.5 mm² cable
Protection standard	IP 30, DIN 40 050, or IEC 144

For technical information on the NTC thermistor, see EN0B-0476GE51.

GENERAL

The CLSN1T10 Outdoor Temperature Sensor contains a single sensor element. It is used to detect outside temperature for weather-related supply air temperature control.

FEATURES

- **Sun blind to protect against radiant heat.**

DIMENSIONS

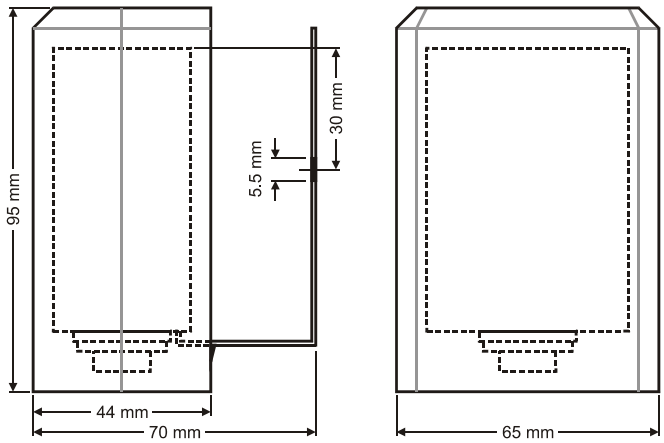


Fig. 1. Dimensions

POSITIONING THE SENSOR

The most important rule for positioning the outdoor temperature sensor is that it should have the same temperature, wind and solar conditions as the occupied rooms.

In most cases, the outdoor temperature sensor should be mounted on the coldest side of the building (N–NW side) so as not to be affected by direct sunshine. This ensures that it will be warm enough in each room of the house. Only when the windows of all the rooms to be regulated face in the same direction can the sensor element be mounted onto the outside of this same wall. This might be the south side of the house.

The outdoor temperature sensor's protective housing prevents the sun's rays from affecting the sensor. If the sensor has been mounted on the south side of a house with large windows facing in this direction, it is recommended that you remove the sun guard.

Do not mount the outdoor temperature sensor in a protected area, such as a wall niche or under the balcony. It should be put on an open facade so that it can detect all weather conditions.

Avoid mounting the sensor above doors and windows since warm air movements may otherwise influence the results.

The temperature sensor should be mounted about 2/3 the way up the wall on buildings of not more that 3 stories; on taller buildings, between the second and third stories.

MOUNTING

Refer to Fig. 2. Press in the clasp (R) and pull off the top (H). Pull the clip (B) out of the housing (G). Screw on the clip (B) and put on the housing. To wire, unscrew the lid. Slide the top (H) over the housing until the clasp is firmly attached.

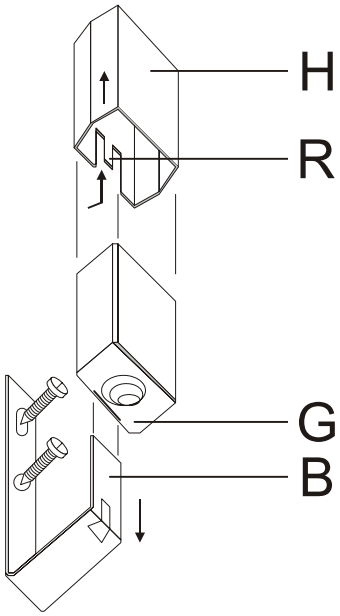


Fig. 2. Mounting

ELECTRICAL CONNECTION

The wiring of the CLSN1T10 Outdoor Temperature Sensor must be in accordance with the overall wiring circuit diagram. The terminals are not polarized; thus, if the wires are connected in reverse, no malfunction will occur.

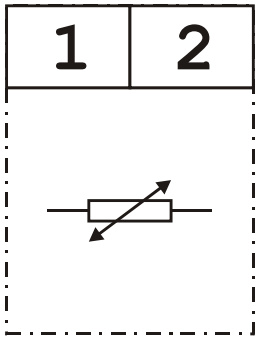


Fig. 3. Electrical connection

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Printed in Germany.
Subject to change without notice.
EN0Z-0915GE51 R0608

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