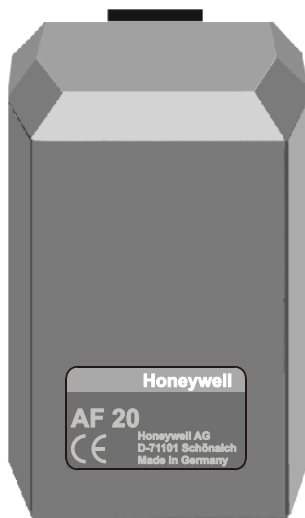


AF20 / DAF20 OUTDOOR TEMPERATURE SENSOR

PRODUCT DATA



APPLICATION

Outdoor temperature sensor to detect outside temperature for weather-related supply air temperature control.

FEATURES

- Sun blinds to protect against radiant heat
- Switch for two separate control devices or heating groups with DAF 20

TYPES

- AF 20, consisting of one sensor element
- DAF 20, same as AF 20, but consisting of two separate sensor elements

DIMENSIONS

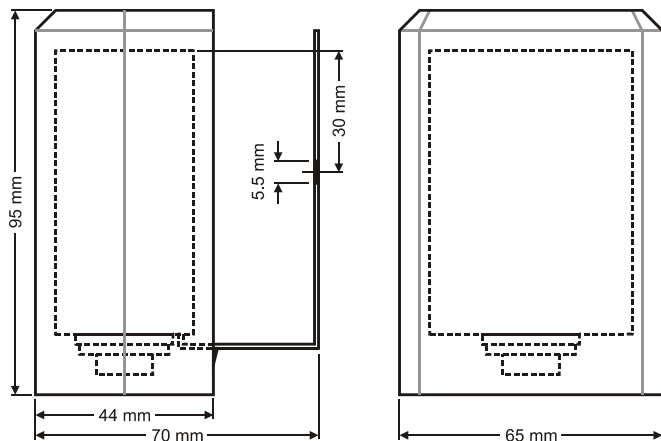


Fig. 1. Dimensions (mm)

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	
AF 20	Electrical terminals for 2 x 1.5 mm ² cable
DAF 20	Electrical terminals for 4 x 1.5 mm ² cable
Protection class	IP 30, DIN 40 050 or IEC 144

For technical information on the NTC thermistor, see "Temperature Sensors" (EN0B-0476GE51).

LOCATION OF DEVICE

The most important rule for locating 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 is to be mounted on the coldest side of the building (N–NW side) so as not to be affected by direct sunshine. This is to ensure 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 can also 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 façade so that it can detect all weather conditions. Avoid mounting the sensor above doors and windows since warm air movements may otherwise influence the measurement results. The temperature sensor should be mounted about 2/3 the way up the wall on buildings of not more than 3 stories; on taller buildings, between the second and third stories.

MOUNTING

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.

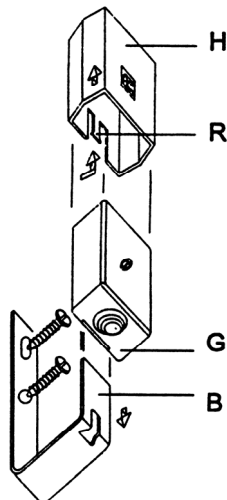


Fig. 2. Mounting

ELECTRICAL CONNECTION

The wiring of the outdoor temperature sensor AF 20 has to be in accordance with the overall wiring circuit diagram. The terminals are not polarized so in the event of the wires connected in reverse, no malfunction will occur.

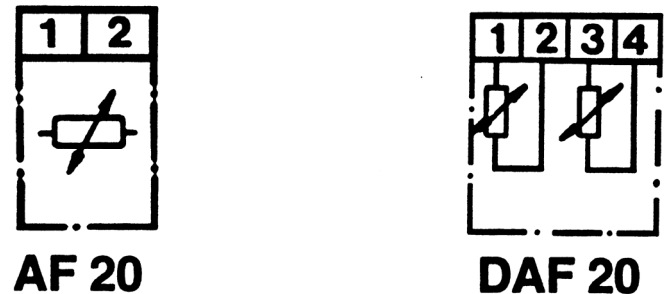


Fig. 3. Electrical connection

Honeywell

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