

## 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

### SPECIFICATIONS

<b>Sensor element</b>	NTC thermistor
<b>Resistance</b>	20 Kohm at 25 °C
<b>Operating range</b>	- 20 ... + 30 °C
<b>Dimensions (H x W x D)</b>	95 x 65 x 70 mm
<b>Housing</b>	Plastic (ABS)
<b>Mounting</b>	Wall mounting
<b>Electrical connection</b>	
AF 20	Electrical terminals for 2 x 1.5 mm <sup>2</sup> cable
DAF 20	Electrical terminals for 4 x 1.5 mm <sup>2</sup> cable
<b>Protection class</b>	IP 30, DIN 40 050 or IEC 144

For technical information on the NTC thermistor, see information leaflet EN 3R-1106.

### DIMENSIONS

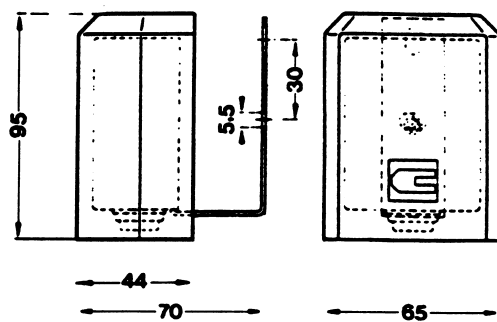


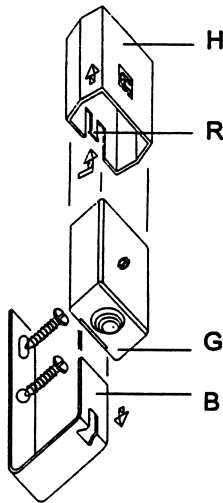
Fig. 1 Dimensions (mm)

## 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 living 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 in each room of the house it will be warm enough. Only when the windows of all the rooms to be regulated are facing 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 protective housing of the outdoor temperature sensor prevents sun's rays affecting the sensor. If the sensor has been mounted on the south side of a house which has large windows facing in this direction, it is recommended to take off 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, otherwise the measurement results can be influenced by warm air movements. 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.

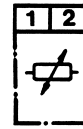
## MOUNTING

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.

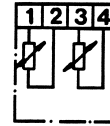


## ELECTRICAL CONNECTION

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 being connected in reverse, no malfunction will occur.



AF 20



DAF 20

# Honeywell

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