

LF20, PF20 DUCT TEMPERATURE SENSORS

PRODUCT DATA



FEATURES

- NTC 20k temperature sensing element
- Wide sensing range
- High accuracy

Models

OS no.	sensor type	IP rating	probe length, in mm (in.)	sensing range
LF20-1P65-5M	NTC 20k	65	157 (6.18)	-30...+80 °C (-22...+176 °F)
LF20-3P65-5M	NTC 20k	65	307 mm (12.07)	
PF20-65-2M	NTC 20k	65	2-m cable	-30...+70 °C (-22...+158 °F)
PF20-65-5M	NTC 20k	65	5-m cable	
LF-MF	mounting flange; bulk pack of 10 flanges			

GENERAL

The LF20 and PF20 Duct Temperature Sensors are used in ventilating and air conditioning systems to measure discharge, return, or outside air temperature. They are designed for duct mounting.

The sensors are suitable for use in systems using NTC 20k temperature sensing elements.

SPECIFICATION

Nominal value

NTC 20k 20 k Ω at 25 °C (77 °F)

Accuracy

NTC 20k ± 0.2 °C at 25 °C (77 °F)

Sensitivity

NTC 20k ≈ -934.5 Ω / K at 25 °C (non-linear)

Time constant

< 30 s

Sensor sleeve material

stainless steel (1.4571)

Cable sheath material

PVC

Electrical connection

2-m or 5-m cable, 2x0.22 mm²

Ambient Limits (wiring box)

Storage temperature -30...+70 °C (-22...+158 °F)

Humidity 5...95% rh, non-condensing

Protection class

IP54 / IP65 as per EN 60529

Dimensions

See below.

DIMENSIONS

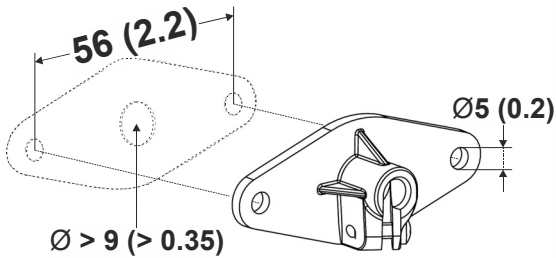


Fig. 1. Mounting flange LF-MF, dimensions in mm (inches)

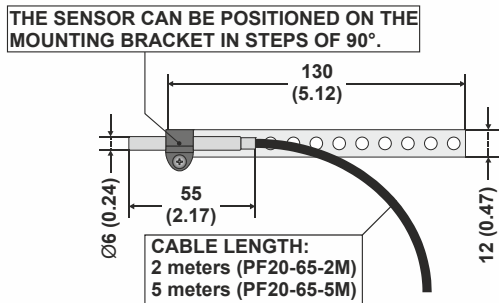


Fig. 2. Dimensions of the PF20 duct sensor in mm (inches)

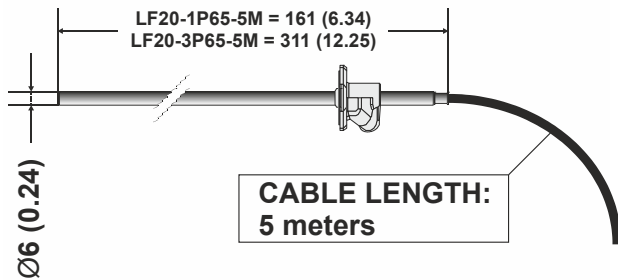


Fig. 3. Dimensions of the LF20-xP65-5M duct sensor in mm (inches)

WIRING

wiring run	max. length
sensor to controller	200 m (660 ft)

NOTE: Use shielded wiring in areas with high EMI. Keep 15 cm (5.9") minimum distance between sensor lines and 230 Vac power lines.

Honeywell

Manufactured for and on behalf of the Connected Building Division of Honeywell Technologies Sàrl, Rolle, Z.A. La Pièce 16, Switzerland by its Authorized Representative:

Home and Building Technologies

Honeywell GmbH
 Böblinger Strasse 17
 71101 Schönaich, Germany
 Phone +49 (0) 7031 637 01
 Fax +49 (0) 7031 637 740
<http://ecc.emea.honeywell.com>