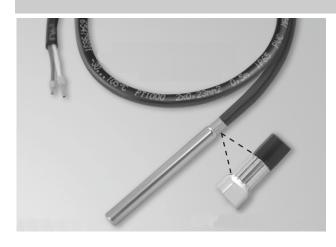
KTFxx

CABLE-TYPE BULB TEMPERATURE SENSORS

PRODUCT DATA



GENERAL

The KTFxx cable-type bulb temperature sensors can be used as strap-on sensors or immersion sensors.

The sensors can be employed for hot and cold water installations in systems using Pt1000, NTC 10k, or NTC 20k temperature sensing elements.

NOTE: Immersion well not included. For information on immersion well options, see VF Immersion

Temperature Sensors – Product Data (Product Literature No.: EN0B-0724GE51).

FEATURES

- Pt1000, NTC 10k, or NTC 20k temperature sensing element
- Stainless steel probes, IP65 rating
- High accuracy

Models

modelo			
OS no.	sensor type	description	temperature range
KTF00-65-2M	Pt1000	2-meter cable	
KTF10-65-2M	NTC 10k	2-meter cable	
KTF20-65-2M	NTC 20k	2-meter cable	
KTF10-65-2M-B	NTC 10k	2-meter cable, pack of 50	-30+105 °C (-22+221 °F)
KTF20-65-2M-B	NTC 20k	pack of 50 KTF20-65-2M	(== ,
KTF20-65-5M-B	NTC 20k	5-meter cable, pack of 50	
KTF00-65-2M-300	Pt1000	2-meter cable	-20+260 °C (-4+500 °F)

Accessory

When securing new sensors into old-style VFxx immersion wells, order the accessory VF-SPRING.

SPECIFICATION

Nominal value

 Pt1000
 1000 Ω at 0 °C (32 °F)

 NTC 10k
 10 k Ω at 25 °C (77 °F)

 NTC 20k
 20 k Ω at 25 °C (77 °F)

Accuracy

Pt1000 (IEC751 Class B) ±0.3 C at 0 °C (32 °F) NTC 10k ±0.2 C at 25 °C (77 °F) NTC 20k ±0.2 C at 25 °C (77 °F)

Sensitivity

Pt1000 $\approx 3.85 \Omega / K$

Time constant

Immersion well appl. < 30 sec



Sensor sleeve material stainless steel (1.4571)

Cable sheath material PVC (excepting the KTF00-65-

2M-300, which has PTFE)

Electrical connection 2-m or 5-m cable, 2x0.22 mm²

Ambient Limits (wiring box)

Storage temperature Humidity -30...+70 °C (-22...+158 °F) 5...95% rh, non-condensing Safety IP65 as per EN 60529 See Fig. 1 on page 2

DIMENSIONS

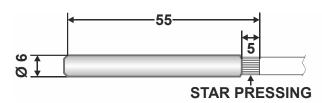


Fig. 1. Dimensions of the cable-type bulb sensor in mm

WIRING

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

Offset due to wire resistance per 10 m of distance from sensor to controller, when using the KTF00-65-2M (Pt1000):

type of wire	temperature offset Pt1000
0.5 mm ² (AWG20)	0.18 °C (0.324 °F)
1.0 mm ² (AWG17)	0.09 °C (0.162 °F)
1.5 mm ² (AWG15)	0.06 °C (0.108 °F)

INSTALLATION

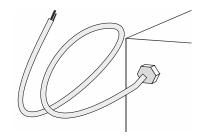


Fig. 2. Mounting into the immersion well

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:

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