Duct-/Immersion temperature sensor

#### **Data Sheet**

KFK0

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sortechnik

## Application

Duct-/Immersion temperature sensor for measuring temperature in gaseous media of heating, cooling and air-conditioning systems (e.g. fresh air/exhaust air ducts).

Designed for locking on to control and display systems.

In conjunction with an immersion pocket also suitable for temperature measurement in liquid fluids (e.g. pipeline systems).

## Types available

KFK01.xxx.07 SensorKFK01, mounting length  $xxx^*$ ,  $\emptyset$ =7mm, passive, with sensor according to customer's need\*KFK01.yyy.04 SensorKFK01, mounting length  $yyy^{***}$ ,  $\emptyset$ =4mm, passive, with sensor according to customer's need\*

\* e.g.: PT100, PT1000, NI1000, NI1000TK5000, LM235Z, NTC..., PTC... and other sensors on request.

\*\* Mounting lengths Ø=7 mm: 62 mm, 135 mm, 192 mm, 240 mm, 320 mm, 392 mm, 465 mm

\*\*\* Mounting lengths  $\emptyset$ =4 mm: 40 mm, 90 mm, 140 mm, 190 mm



#### Security Advice – Caution

The installation and assembly of electrical equipment must be performed by a skilled electrician.

The modules must not be used in any relation with equipment that supports, directly or indirectly, human health or life or with applications that can result in danger for people, animals or real value.

#### Before connecting devices with electrical power supply the installation must be isolated from power source!

### **Notes on Disposal**

For disposal, the product is considered waste from electrical and electronic equipment (electronic waste) and must not be disposed of as household waste. Special treatment for specific components may be legally binding or ecologically sensible. The local and currently applicable legislation must be observed.

## **Technical Data**

Mounting lengths:	Ø=7 mm: 62 mm, 135 mm, 192 mm, 240 mm, 320 mm, 392 mm, 465 mm
	∅=4 mm: 40 mm, 90 mm, 140 mm, 190 mm
Operating temperature	Standard: -50160 °C
sensor bushing:	260 °C version: -80260 °C
Sensor bushing:	Stainless steel mat. 1.4571
Connection head:	Form J, Material Aluminium
Protection:	IP65 according to EN 60529
Measuring element:	Sensor according to customer's request

Measuring range:	Depending on sensor used
Accuracy:	Depending on sensor used
Measuring current:	Typ. <1 mA
Clamps:	2pole (two-wire)
	3pole (three-wire)
	4pole (four-wire)
	Terminal screw max. 1,5 mm <sup>2</sup>
Cable entry:	Single entry, M16 for cable max.
	Ø <b>=</b> 8 mm
Ambient temperature	-25+90 °C
connection head:	
Weight:	approx. 140 g

## **Mounting Advices**

The sensor can be mounted on the ventilation duct by means of a mounting flange.

For risk of condensate permeation in the sensor tube respectively in the immersion pocket the bushing must be installed in a position that occurred condensate can run off.

Please also note the general remarks in our INFOBLATT THK.

## **Terminal connection plan**



## **Dimensions (mm)**



# Accessories (optional)

(THMS)	Immersion pocket for $\varnothing$ =7 mm, material brass nickel-plated, safe up to 16 bar
(THVA)	Immersion pocket for $\varnothing$ =7 mm, material stainless steel, safe up to 40 bar
(MF7)	Mounting flange for $\varnothing$ =7 mm
(MF4)	Mounting flange for $\emptyset$ =4 mm
(MF7/TPO)	Mounting flange for $\varnothing$ =4/7 mm