

Operating instructions Electronic temperature sensor

#### е**fectorьоо** TK6330



CE

# 1 Functions and features

The unit detects the system temperature in machines and installations.

# 2 Function

The unit switches the two complementary outputs OUT1 / OUT2:

- With rising temperature OUT1 closes and OUT2 opens when the set value [SET] is reached.
- With falling temperature OUT1 opens and OUT2 closes, when the set value [RESET] is reached.
- Measuring range: -25...140°C / -13...284°F.
- Measuring element: Pt1000 according to DIN EN 60751, class B.

# 3 Installation

Before mounting and removing the unit: ensure that no medium can leak at the process connection.

- ▶ Insert the unit in a ¼" NPT process connection.
- ► Tighten firmly. Tightening torque: max. 25 Nm.

## **4 Electrical connection**



The unit must be connected by a qualified electrician.

The national and international regulations for the installation of electrical equipment must be adhered to.

- Disconnect power.
- Connect the unit as indicated on the type label.

### 5 Setting



- 1: locking ring
- 2: setting rings (manually adjustable after unlocking)
- 3: LED green: supply voltage O.K.
- 4: setting marks
- 5: LED yellow: value [SET] reached, OUT1 = ON / OUT2 = OFF]
- 6: process connection 1/4" NPT
- pin 4 = OUT1 / pin 2 = OUT2
- Minimum distance between [SET] and [RESET] = 3 K.
- To obtain the setting accuracy: Set both rings to the minimum value, then set the requested values.

6 Scale drawing



Dimensions are in millimeters

### 7 Technical data

Operating voltage [V] Current rating [mA] Current consumption [mA]		
Measuring range [°C / °F] Measuring element Accuracy [K] Repeatability [K] Response dynamics (to DIN EN 60751) [s]	-25140 / -13284 1 x Pt1000 to DIN EN 60751, class B ± 3 (setting accuracy) ± 0.1	
Housing materials	stainless steel (316S12); PC (Makrolon); PBT, (Pocan); FPM (Viton)	UK
Material (wetted parts) Operating temperature[°C] Storage temperature [°C] Permissible overload pressure [bar] Medium temperature [°C]	-2570 -40100 	
Protection rating Protection class Shock resistance [g] Vibration resistance [g] EMC	IP 67  III 50 (DIN / IEC 68-2-27, 11 ms)	
EN 61000-4-2 ESD: EN 61000-4-3 HF radiated: EN 61000-4-4 Burst: EN 61000-4-6 HF conducted:		

#### More information at www.ifm.com