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Description

KOBOLD temperature switches model TDD are used for economical measurement and monitoring of temperature. They are suited for applications where temperature must be monitored with a high degree of switching accuracy. A semiconductor, which outputs a digital signal to the evaluating electronics in 1.0 °F steps, serves as sensor element.

The current measured value is displayed on a 3-digit LED display. Two switch points, on-/off-switching delay, and hysteresis are adjustable within the measuring range.

Applications

- Compressors
- Mechanical engineering
- Plant engineering
- Pumps

Accessories:

Description	Model	
Micro-DC plug, 4-pin with 6 foot cable	807.037	
6mm bore through compression fitting - 1/4" npt	TD-FTFHG1/4SS	
6mm bore through compression fitting - 1/2" npt	TD-FTFHG1/2SS	

Technical Details Housing cover: Housing:

Sensor:

Cable:

Housing:

Display:

Resolution:

stainless steel 316L Connection compact version: 1/2 NPT or 3/4 NPT male thread stainless steel 316L option: G1/2 or G3/4 Connection separate version: 100 mm, 6 mm 2.5 m PTFE with M12x1 plug M25x1.5 with backing nut Principle of measurement: semiconductor 3-digit LED, digit-height: 7 mm 1.0 °F up to 212 °F 2.0°F (212°F onwards) Max. temperature of measured medium: 0...250°F (compact version) -58...250 °F (separate version) 0...120°F

stainless steel 303

Max. ambient temp.: Max. pressure: Power supply: Power consumption:

Electrical connection: Type of switching output:

max. 300 mA, short-circuit proof Contact function: N/O / N/C, window, adjustable Switch. point adjustment: adjustable via 2 keys Switching state display: 1(2) LED Hysteresis: adjustable via 2 keys ON/OFF-switching delay: 0.5...99.5 (separately adjustable) Measuring cycle: 0.5 s t₅₀: approx. 13 s Accuracy (sensor): ±1.0°F (between 14...185°F) ±3.6 °F (between 185 ... 250 °F and -58...-14°F) Protection: IP 65

1150 psi $24 V_{DC} \pm 20\%$

approx 50 mA

plug M12x1

semiconductor;

(without switching output)

PNP or NPN (factory set),

Order Details (Example: TDD-153N4F20L3M)

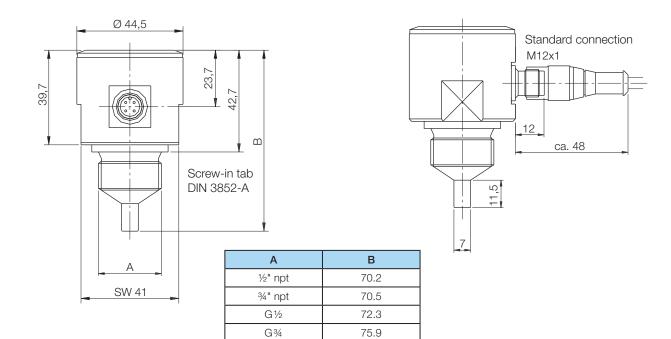
Model				Connection	Measuring Range	Sensor length*	Option*
Output 1 x PNP	Output 1 x NPN	Output 2 x PNP	Output 2 x NPN				
TDD-153	TDD-353	DD-353 TDD-553	TDD-753	N4 = ½ NPT N5 = ¾ NPT R4 = G ½ R5 = G ¾	F2 = 0 250 °F H2 = -20120 °C	00 = 12 mm 10 = 100 mm 20 = 184 mm*	
				D6 = Remote mount version, no fitting	F3 = -58 250 °F H3 = -50125 °C	10 = 100 mm	EC = Extended cable length**

* Overall fitting/probe length with G thread is 200 mm. **Specify desired cable length when ordering, TDD-..D6.. versions only.

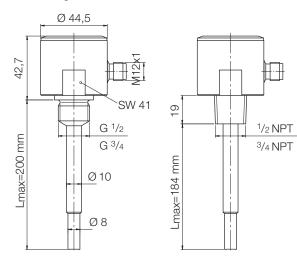


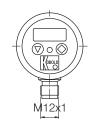
Dimensions

Compact version, short



Compact version, long





Remote mount version

