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Description

The KOBOLD TDD temperature switches 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. Common applications include: compressors, mechanical and plant engineering, and pumps.

Technical Details

Housing Cover: Housing: Connection	303 Stainless Steel 316L Stainless Steel			
Standard Version:	1⁄2" NPT or 3⁄4" NPT Male Thread 316L Stainless Steel Option: G 1⁄2 or G 3⁄4			
Remote Version				
Sensor:	100 mm, 6 mm			
Cable:	2.5 m PTFE with M12x1 Plug			
Housing:	M25x1.5 with Backing Nut			
Principle of Meas .:	Semiconductor			
Display:	3-digit LED, Digit-height: 7 mm			
Resolution:	1.0 °F up to 212 °F			
Max. Media Temp.:				
Standard Version:	0250°F			
Remote Version:	-58250°F			
Ambient Temp. Range:	0120°F			



Max. Pressure:	1150 PSI				
Power Supply:	24 VDC ±20%				
Power Consumption:	Approx. 50 mA				
	(without Switching Output)				
Electrical Connection:	M12x1 Plug				
Type of Switch. Output:	Semiconductor;				
	PNP or NPN (Factory Set),				
	Max. 300 mA, Short-circuit Proof				
Contact Function:	N/O / N/C, Window, Adjustable				
Switch. Point Adj.:	Adjustable via 2 Keys				
Switching State Display:	1 (2) LED				
Hysteresis:	Adjustable via 2 Keys				
ON/OFF-Switch. Delay:	0.599.5 (Separately Adjustable)				
Measuring Cycle:	0.5 s				
	t ₅₀ : approx. 13 s				
Accuracy (Sensor):	±1.0°F (between 14185°F)				
	$\pm 3.6^{\circ}\text{F}$ (between $185\ldots 250^{\circ}\text{F}$ and				
	-5814°F)				
Protection:	IP 65				

Model								
Output 1 x PNP	Output 1 x NPN	Output 2 x PNP	Output 2 x NPN	Connection		leasuring Range	Sensor Length	
TDD-153	TDD-353	TDD-553	TDD-753	N4 = ½" NPT N5 = ¾" NPT R4 = G ½ R5 = G ¾ D6 = Remote Mount, No Fitting	F2 = 0250 °F H2 = -20120 °C F3 = -58250 °F H3 = -50125 °C		00 = 12 mm 10 = 100 mm 20 = 200 mm 10 = 100 mm	
Accessories								
Micro-DC Plug, 4-pin with 6 ft Cable			807.037					
6mm Bore Through Compression Fitting for D6 Connection - 1/4" NPT			FTFHG1/4SS					
6mm Bore Through Compression Fitting for D6 Connection - 1/2" NPT			FTFHG1/2SS					

Order Details (Example: TDD-153N4F210)

Digital Temperature Switch for Liquids Model TDD

Α

1/2" NPT

34" NPT

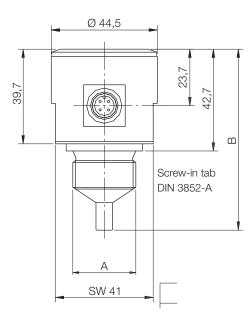
G1⁄2

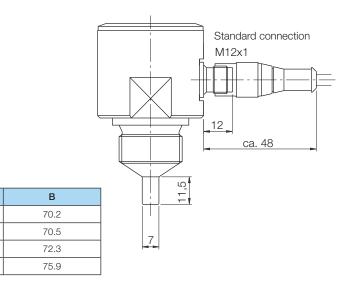
G¾

OBOLL

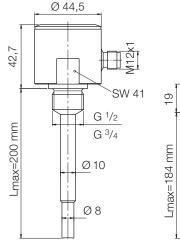
Dimensions (mm)

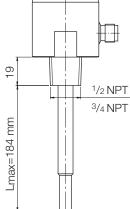
Standard Version, 12mm

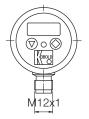




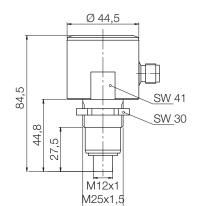
Standard Version, 200mm



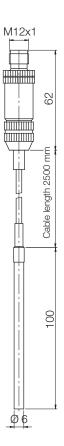




Remote Version







No responsibility taken for errors; subject to change without prior notice.