

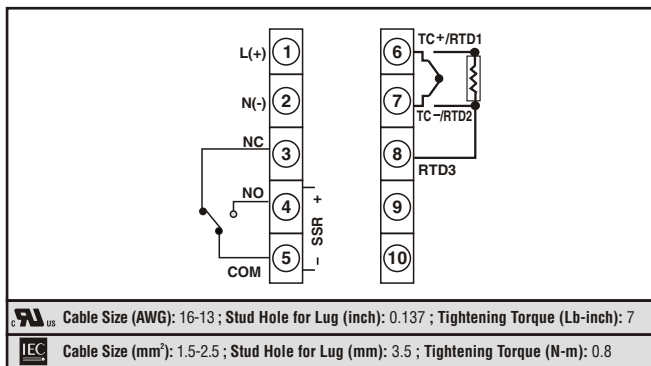


CE US  
PENDING  
1/16 DIN  
52mm x 52mm

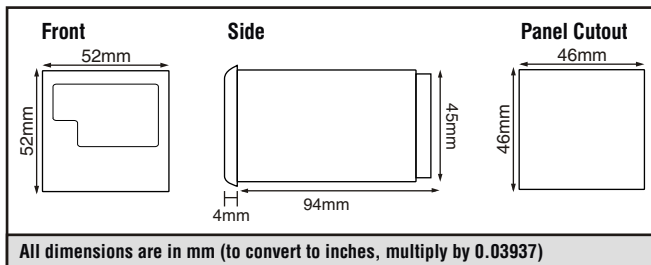
**ORDERING INFORMATION**

Part No.	Supply Voltage		Control Output	
	85 - 270V AC/DC	24V AC/DC	Relay	SSR (12V DC)
TC533-NX	▪		▪	
TC533-SSR	▪			▪
TC533NX-24		▪	▪	
TC533-SSR-24		▪		▪

**TERMINAL CONNECTIONS**



**DIMENSIONS**



**INPUT RANGES**

Input (for RTD)		Ranges	Input (for TC)		Ranges
Pt100	°C	-150 to 850	J	°C	-199 to 750
	°F	-199 to 999		°F	-199 to 999
			K	°C	-199 to 999
				°F	-199 to 999
			T	°C	-199 to 400
				°F	-199 to 750
			R & S	°C	0 to 999
				°F	32 to 999

**FEATURES**

- High Performance
- Dual Display, 3 digit, 7 segment LED
- LED Status Indicator: Relay ON
- 3 Front Panel Control buttons
- TC/RTD Inputs
- PID, ON/OFF Control
- Single Setpoint
- °C / °F Selectable
- Control Output : Relay or SSR Drive
- Easy to use

**TECHNICAL SPECIFICATIONS**

**INPUT SPECIFICATIONS**

Inputs	Thermocouple (J,K,T,R,S) / RTD (Pt100)
Sampling time	250 ms
Input Filter (FTC)	0.2 to 10.0 sec
Resolution	Fixed 1°
Temperature Unit	°C / °F selectable
Indication Accuracy	For J, K & T inputs: 0.25% of F.S. ±1° For R & S inputs: 0.5% of F.S. ±2° (20 min of warm up time for TC inputs) For RTD inputs: 0.1% of F.S. ±1° (F.S. = Full Scale)

**FUNCTIONAL SPECIFICATIONS**

Control Action	1) PID 2) ON-OFF
Proportional Band (P)	1 to 400°
Integral Time (I)	0.0 to 99.9 min
Derivative Time (D)	0 to 200 sec
Cycle Time	0.1 to 99.9 sec
Hysteresis Width	0.1 to 99.9°
Manual Reset Value	-19.9 to 19.9°

**OUTPUT SPECIFICATIONS**

Contact Rating (SPDT)	10A @ 250V AC / 30V DC, resistive
SSR Drive (Voltage Pulse)	12V DC, 50mA

**GENERAL SPECIFICATIONS**

Supply Voltage	85 to 270V AC/DC (50 / 60Hz) OPTIONAL - 24V AC/DC, ±10%
Power Consumption	5VA max @230V AC
Temperature	Operating: 0 to 50°C (32 to 122°F) Storage: -20 to 75°C (-4 to 167°F)
Humidity (non-condensing)	95% RH
Weight	129 g (0.284 lbs)
Protection Level	IP65 for faceplate