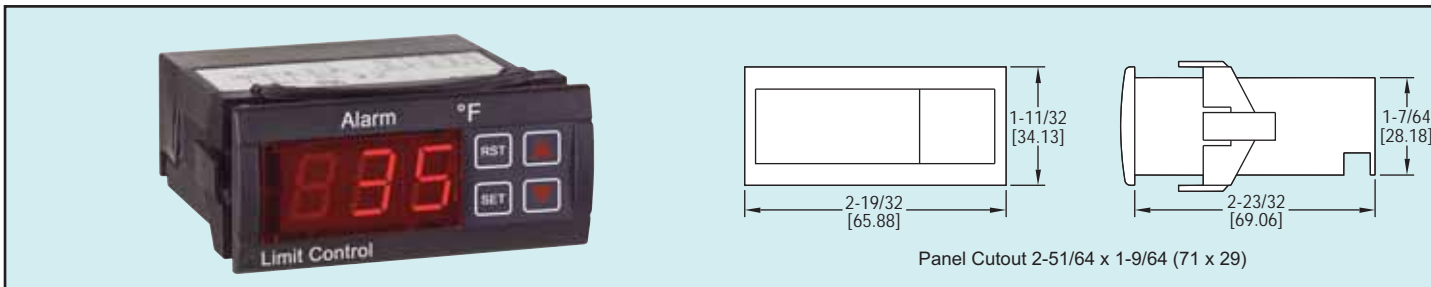




Series  
TSF

# Thermocouple Limit Control

## FM Approved High Limit Switch



Panel Cutout 2-51/64 x 1-9/64 (71 x 29)

The **Series TSF Thermocouple FM Approved Limit Control** provides audible alarm status along with a robust 16 amp relay output. Unit allows the user to easily select automatic or manual reset along with 10 other parameters. The TSF series has a built in reset button on the front panel or can accept an external reset.

### SPECIFICATIONS

**Probe Range:** 0 to 700°C (32 to 999°F) for thermocouple J type. 0 to 999°C (32 to 999°F) for thermocouples K or S type.  
**Input:** Type J, K or S thermocouple.  
**Output:** 16A SPDT relay @ 250 VAC resistive.  
**Horsepower Rating (HP):** 1 HP.  
**Control Type:** ON/OFF; manual/automatic reset.  
**Power Requirements:** 110 VAC, 230 VAC, 12 VAC/VDC or 24 VAC/VDC (depending on model).

### ACCESSORIES

**TCS-J,** J type thermocouple, 4" probe, 48" extension  
**TCS-K,** K type thermocouple, 4" probe, 48" extension  
**TS2-K,** Configuration Key

**Power Consumption:** 4 VA.

**Accuracy:** ±1% FS.

**Display:** 3-digit, red, 1/2" (12.7 mm) digits, plus sign.

**Resolution:** 1°.

**Memory Backup:** Nonvolatile memory.

**Temperature Limits:** Ambient: 14 to 131°F (-10 to 55°C).

**Storage Temperature:** -4 to 176°F (-20 to 80°C).

**Weight:** 2.3 oz (65 g).

**Front Panel Rating:** IP64.

**Agency Approvals:** CE, FM, UL, ULc.

Model	Description
TSF-4010	Type J/K/S input, 110 V, °F
TSF-4011	Type J/K/S input, 110 V, °C
TSF-4020	Type J/K/S input, 230 V, °F
TSF-4021	Type J/K/S input, 230 V, °C
TSF-4030	Type J/K/S input, 12 VAC/VDC, °F
TSF-4031	Type J/K/S input, 12 VAC/VDC, °C
TSF-4040	Type J/K/S input, 24 VAC/VDC, °F
TSF-4041	Type J/K/S input, 24 VAC/VDC, °C