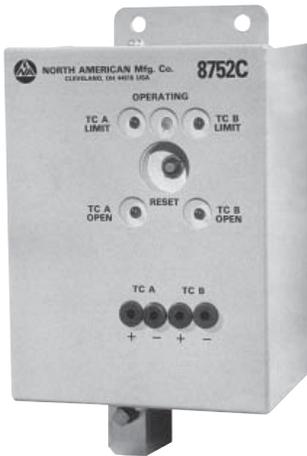


North American TwinBed® II 8752C Overtemperature Switch

Bulletin 8752C



Field Mount



Panel Mount

The 8752 TwinBed Overtemperature Switches are single or dual input devices that detect burner bed overtemperature. They are normally connected to a control panel, where they can initiate burner shutdown, interlocking and/or annunciation.

These switches accept one or two type K thermocouple inputs. On bed overtemperature, a relay contact opens and an LED lights, indicating which bed is overtemperature. Once the relay has opened, it will not close until any connected thermocouples are below the overtemperature limit and either the RESET button is pressed or power to the unit is cycled.

The 8752 has easily accessed controls, with externally visible LED's and a front cover reset switch. A green LED indicates normal operation. During an overtemperature situation, red LED's indicate which channel is overtemperature. Red LED's indicate an open thermocouple on either channel.

The switch is designated as the 8752C and is available as a single input or dual input, for either panel or field mounting. The remote version is plugged into a panel mount edge connector (provided with the unit).

The field mount version consists of a NEMA 12 type enclosure with a ventilated outer box that includes provisions for supplying cooling air. Terminal strips are provided for the power and thermocouple connections. The thermocouple terminals are accessible from outside the enclosure for bed temperature measurements using a meter.

The 8752 options and part numbers are:

8752C-SF-0250: Single input field mount
 8752C-DF-0250: Dual input field mount
 8752C-DB-0250: Panel mount with edge connector

8752C-SF-0600: Single input field mount
 8752C-DF-0600: Dual input field mount
 8752C-DB-0600: Panel mount with edge connector

8752C-SF-0750: Single input field mount
 8752C-DF-0750: Dual input field mount
 8752C-DB-0750: Panel mount with edge connector

8752C-SF-1000: Single input field mount
 8752C-DF-1000: Dual input field mount
 8752C-DB-1000: Panel mount with edge connector

Note: The "-0750" designates the preset actuation temperature of 750 F; "-1000" designates 1000 F actuator temperature. The "-0250" designates the preset actuation temperature of 250 F; "-600" designates 600 F actuator temperature. The "-0750" and "-1000" range are bed overtemperature ranges. The "-0250" and "-0600" range are exhaust blower ranges.

SPECIFICATIONS

Power Requirements: 102-132 V ac, 50-60 Hz, 6 VA max.

Ambient Temperature Rating: 8752C-DB: 32-160 F (0-70 C).
 Others: 32-180 F (0-80 C). Cooling air is required at ambients over 160 F.

Cooling Air (-DF and -SF only): 140 scfh required. The supplied fitting will limit the air flow to 140 scfh at 12 psi line pressure. Cooling air temperature must be less than 130 F.

Actuation Temperature: 750 F or 1000 F.

Output: Normally open electro-mechanical relay contact (isolated).

Relay Contact Rating: 0.5 A resistive at 120 V ac.

Reset Mechanism: Pushbutton switch or power cycling.

Bed Overtemperature and Open Thermocouple Indication: Red LED.

Normal Operation Indicator: Green LED.

Temperature Sensing Device: Type K Thermocouple (grounded or ungrounded). North American recommends the 8752T. See Maintenance Sheet 8752T for information.