

Provide low limit temperature control and/or indication in operating dampers, valves, and compressor or fan motors in HVAC systems.

- Manual and automatic reset models available.
- DPDT (two SPDT) switching action.
- Responsive to lowest temperature sensed along any one foot section of capillary element.
- Setpoint visible through front cover and adjustable from top of controller case.
- Test lever for manual operation during checkout.
- Manual reset models cannot be reset until sensed temperature is at least 5°F (2.8°C) above setpoint.
- Automatic reset models automatically reset when sensed temperature rises 5°F (2.8°C) above setpoint.

**APPROVALS:** UL, ULC listed; CE, RoHS compliant.

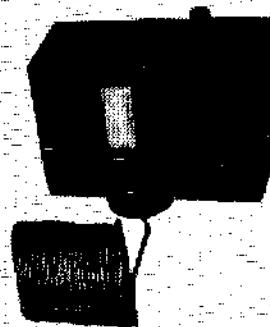
**SWITCH ACTION:** DPDT (two SPDT), snap acting.

**SWITCH RATING:** See Table A.

**DIFFERENTIAL:** 4.5°F (2.5°C), fixed.

**SENSING ELEMENT:** Vapor-filled copper capillary tin-plated, 3/32" (2.4mm) diameter, 6-feet or 20-feet length depending on model number selected.

**RESPONSE:** To lowest temperature sensed by any one foot section of capillary element.



**TEMPERATURE LIMITS:**

-60°F to 160°F (-51°C to 71°C), operating  
300°F (149°C) maximum at sensing element.

**MATERIAL:** Plated steel case; plastic cover.

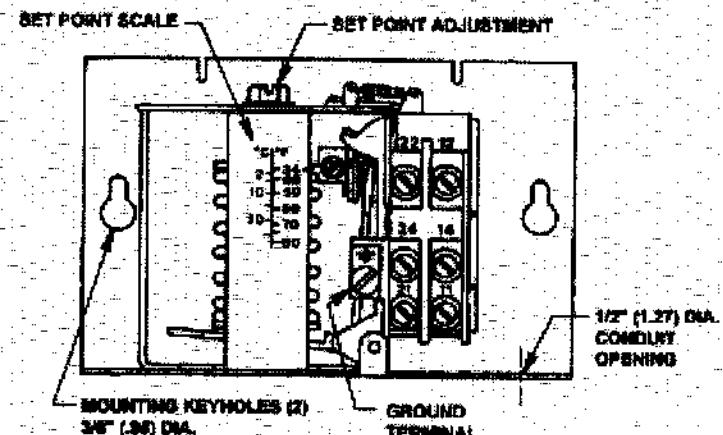
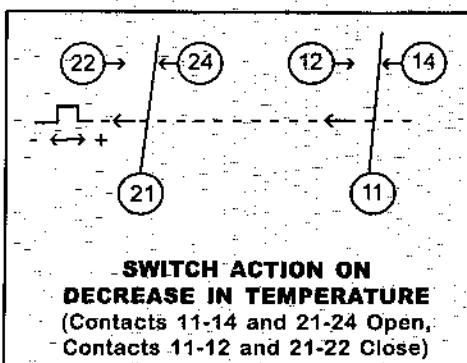
**MOUNTING:** Surface mount with capillary installed in horizontal serpentine pattern.

**DIMENSIONS:** 3.63"H x 5.5"W x 2.63"D.  
(92mm x 140mm x 67mm).

**ACCESSORIES:** FX-4520 capillary mounting clip.

**TABLE A. ELECTRICAL RATINGS**

INDUCTIVE	120 vac	240 vac
F.L.A.	14 Amps	12 Amps
L.R.A.	84 Amps	72 Amps
HP	3/4 HP	2 HP
<b>PILOT DUTY</b>		720 va max @ 120 to 600 vac; 144 va max @ 24 vac



Model	Reset Action	Switch Action	Capillary Length	Setpoint Range	Differential Fixed	Capillary Clips
FS-50	Manual	DPDT	20-ft (609 cm)	34°-70° F (1.1° to 21°C)	4.5°F (2.5°C)	5 Clips Supplied
FS-53	Automatic					
FS-61	Manual	DPDT	10-ft (305 cm)	34°-70° F (1.1° to 21°C)	4.5°F (2.5°C)	3 Clips Supplied
FS-64	Automatic					
FS-75	Manual	DPDT	50-ft (1524 cm)	34°-70° F (1.1° to 21°C)	4.5°F (2.5°C)	15 Clips Supplied
FS-77	Automatic					