The Series DFS Low Limit Freeze Protection Switch protects cooling coils in air handler systems by preventing frost build up on the coils. By sensing the lowest temperature along any 1’ section of capillary, the DPDT manual or automatic reset relays signal the building management system, as well as cut off the fan. Set points can be adjusted as low as 34°F (1°C) utilizing the visual set point indicator and set point screw. The Series DFS includes mounting clips for easy installation.

**Series DFS Low Limit Freeze Protection Switch**

**Manual and Auto Reset, DPDT Output**

**ACCESSORIES**

- CC1-N, Averaging Temperature Sensor Clip, Natural ............................. $0.80
- CC1-B, Averaging Temperature Sensor Clip, Beige ............................. 0.80
- CC1-GY, Averaging Temperature Sensor Clip, Grey ............................. 0.80

Items are net priced and are not subject to any discount.

**Features**

- Snap action switch standard
- Inert gas activated Bourdon tube
- No cross ambient temperature effects
- No bulb elevation correction required
- Visible dial calibrated in both °F and °C
- Visible on/off indication

**Specifications**

- Wetted Material: Vapor-filled copper capillary, tin-plated, 10’ or 20’.
- Housing Material: Plated steel case, painted steel cover, plastic set point window.
- Temperature Limit: Operating: -60 to 160°F (-51 to 71°C);
- Sensing element: 300°F (149°C) max.
- Switch Type: DPDT snap acting.
- Electrical Ratings:
  - Inductive: 14 FLA, 84 LRA, 3/4 hp @ 120VAC; 12 FLA, 72 LRA, 2 hp @ 240 VAC.
  - Pilot Duty: 720 VA max. @ 120 to 600 VAC; 144 VA max. @ 24 VAC.
- Reset Action: Manual or automatic.
- Adjustable Range: 34 to 70°F (1 to 21°C).
- Deadband: 4.5°F (2.5°C), fixed.
- Agency Approvals: cUL, UL.

**Series DA-7035N**

**Temperature Switches**

**Bulb and Capillary, Inert Gas Fill**

**Specifications**

- Service: Compatible liquids or gases.
- Wetted Materials: Bulb and connection: 304 SS.
- Temperature Limit: Process: See model chart; Ambient: 180°F (82°C).
- Pressure Limit: 300 psi (20.6 bar).
- Enclosure Rating: General purpose. Optional weatherproof and explosion-proof.
- Repeatability: ± 1% of full-scale.
- Switch Type: SPDT snap switch. Optional DPDT snap and a variety of mercury switches.
- Electrical Rating: 10A @ 120/240/480 VAC.
- Electrical Connections: Screw terminal.
- Conduit Connection: 3/4” (22.23 mm) hole for 1/2˝ (12.7 mm) conduit hub.

**Features**

- Adjustable deadband
- Snap action switch standard
- Inert gas activated Bourdon tube
- No cross ambient temperature effects
- No bulb elevation correction required
- Visible dial calibrated in °F and °C
- Visible on/off indication

**Process Connection:** 3/4” male NPT. Other sizes available.

**Mounting Orientation:** Vertical and level.

**Set Point Adjustment:** External knobs for set point and reset point.

**Weight:** 5 lb (2.3 kg).

**Deadband:** Adjustable from minimum in model chart to full range. Optional low fixed deadband.

**Capillary:** 6 ft (1.8 m) standard. Ranges 1N to 7N, and 10N: copper. Ranges 8N, 9N, 11N: 304 SS.

**Set Point Scale:** Indication in °F and °C.

**Options:** See switch type, see enclosures, fixed deadband, longer or shorter capillary, armored capillary, wells, two stage, 1/2” or 1” connection sizes, manual reset, and other bulb styles.