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.

**ACCESSORIES**
- CC1-N, Averaging Temperature Sensor Clip, Natural
- CC1-B, Averaging Temperature Sensor Clip, Beige
- CC1-GY, Averaging Temperature Sensor Clip, Grey

**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 @ 120 VAC; 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.

**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 both °F and °C
- Visible on/off indication

**Series DFS Temperature Switches**

**Low Limit Freeze Protection Switch**

**Series DFS**

**DA-7035N**

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.
- **Electrical Rating:** 10A @ 120/240/480 VAC.
- **Accessories:** Metering holes, two stage, 1/2˝ or 1˝ conduit hub.

**Series DA-7035N**

**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 both °F and °C
- Visible on/off indication

**PRESSURE LIMIT:**

- Maximum Temp. °F (°C)
  - Min. 
  - Min. Insertion Depth
  - 5-3/32 (140.00) [152.00]
  - 2-1/4 (57.15) [57.15]

**CAPILLARY:**

- 2-7/8 (73.15) [57.15]
- 3-5/16 (81.14) [62.14]
- 3-1/4 (79.92) [87.15]
- 1-1/2 (40.64) [38.10]
- 6 ft (1.8 m)

**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.

**Capillary:** 6 ft (1.8 m) standard.

**Ranges:**

- 1N to 7N, and 10N: copper.
- Ranges 1N to 7N, and 10N: copper.
- Optional low fixed deadband.

**Optional:**

- 5-33/64 (140.00) [152.00]
- 2-1/4 (57.15) [57.15]
- 5-3/32 (140.00) [152.00]
- 2-1/4 (57.15) [57.15]