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

**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: 40 to 160°F (-5 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.

**Series DFS Temperature Switches**

**Model** | **Reset Action** | **Capillary Length** | **Price**
--- | --- | --- | ---
DFS-DM20 | Manual | 20' (609 cm) | $160.00
DFS-DA20 | Automatic | 20' (609 cm) | 155.00
DFS-DM10 | Manual | 10' (305 cm) | 119.00
DFS-DA10 | Automatic | 10' (305 cm) | 118.00

**Temperature Switches**

**Model** | **Range °F (°C)** | **Max. Temp. °F (°C)** | **Min. Deadband °F (°C)** | **Min. Insertion Depth °E in. (mm)** | **Price**
--- | --- | --- | --- | --- | ---
DA-7035-153-1N | -60 to +30 (50 to 0) | 150 (65) | 23 (13) | 5/8 (15.88) | $619.40
DA-7035-153-3N | 0 to 100 (-18 to 40) | 240 (115) | 25 (14) | 5/8 (15.88) | 619.40
DA-7035-153-4N | 50 to 150 (10 to 65) | 250 (120) | 25 (14) | 5/8 (15.88) | 619.40
DA-7035-153-5N | 100 to 200 (40 to 95) | 300 (150) | 25 (14) | 5/8 (15.88) | 619.40
DA-7035-153-7N | 140 to 300 (60 to 150) | 500 (260) | 41 (23) | 5/8 (15.88) | 619.40
DA-7035-153-8N | 250 to 415 (120 to 215) | 550 (290) | 42 (23) | 5/8 (15.88) | 619.20
DA-7035-153-9N | 350 to 550 (175 to 290) | 600 (315) | 50 (28) | 5/8 (15.88) | 894.20
DA-7035-153-10N | 100 to 300 (40 to 150) | 500 (260) | 25 (14) | 5/8 (15.88) | 880.40
DA-7035-153-11N | 100 to 500 (40 to 260) | 600 (315) | 50 (28) | 5/8 (15.88) | 1040.20

**Insertion depth can be increased through use of bulb supports or wells. Consult factory.**

Series DA-7035N temperature switches include the same time-proven switching mechanism used in our Series DA pressure switches. Bourdon tube assures high sensitivity and long life. Fully adjustable deadband makes units suitable for a wide range of control applications. Visible, calibrated dial and external adjustments make changing setpoints simple and fast.

**Mercoid Temperature Switches**

**Model** | **Range °F (°C)** | **Max. Temp. °F (°C)** | **Min. Deadband °F (°C)** | **Min. Insertion Depth °E in. (mm)** | **Price**
--- | --- | --- | --- | --- | ---
DA-7035-153-1N | -60 to +30 (50 to 0) | 150 (65) | 23 (13) | 2-7/8 (73) | $619.40
DA-7035-153-3N | 0 to 100 (-18 to 40) | 240 (115) | 25 (14) | 2-7/8 (73) | 619.40
DA-7035-153-4N | 50 to 150 (10 to 65) | 250 (120) | 25 (14) | 2-7/8 (73) | 619.40
DA-7035-153-5N | 100 to 200 (40 to 95) | 300 (150) | 25 (14) | 2-7/8 (73) | 619.40
DA-7035-153-7N | 140 to 300 (60 to 150) | 500 (260) | 41 (23) | 2-7/8 (73) | 619.40
DA-7035-153-8N | 250 to 415 (120 to 215) | 550 (290) | 42 (23) | 2-7/8 (73) | 619.20
DA-7035-153-9N | 350 to 550 (175 to 290) | 600 (315) | 50 (28) | 2-7/8 (73) | 894.20
DA-7035-153-10N | 100 to 300 (40 to 150) | 500 (260) | 25 (14) | 2-7/8 (73) | 880.40
DA-7035-153-11N | 100 to 500 (40 to 260) | 600 (315) | 50 (28) | 2-7/8 (73) | 1040.20

**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 terminals. Conduit Connection: 7/8” (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 both °F and °C
- Visible on/off indication

**Series DA-7035N**

**Low Limit Freeze Protection Switch**

**Manual and Auto Reset, DPDT Output**

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