SERIES DFS2 | LOW LIMIT FREEZE PROTECTION SWITCH



Manual reset option shown

FEATURES/BENEFITS

- **Vapor-filled copper capillary sensing element**
- **Joint spring protector at capillary-bellow connection**
- **Set point safety-lock protection and simple adjustment**
- **Easy installation and wiring**
- **Automatic and manual reset**

APPLICATIONS

- HVAC Equipment
- Heat Exchangers and Cooling coils

DESCRIPTION

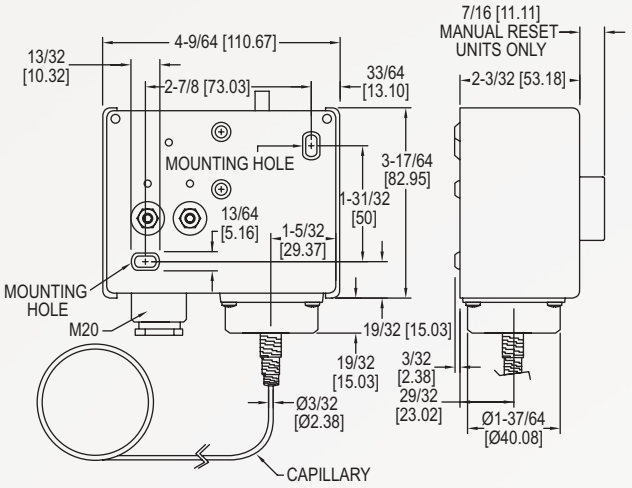
The **Series DFS2 Low Limit Freeze Protection Switch** protects cooling coils in air handler systems by preventing frost build up. The thermostat and its capillary sensing element provide an antifreeze function by sensing the lowest temperature along any one foot section of capillary. The DPDT manual or automatic reset relays signal the building management system as well as cut off the fan. The Series DFS2 will detect temperature drops below the fixed safety value (set point) which can be set as low as 34°F (1°C) utilizing the visual set point indicator and set point screw.

SPECIFICATIONS

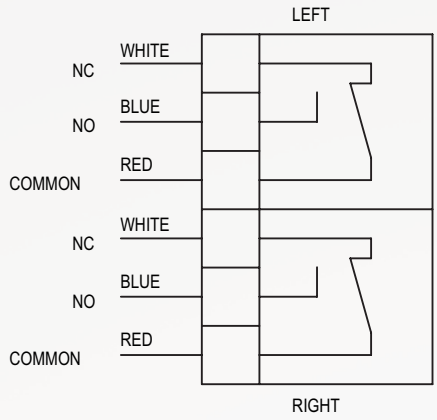
Sensing Element	Vapor-filled capillary.
Operating Temperature	14°F to 54°F (-10°C to 12°C).
Storage Temperature	14°F to 158°F (-10°C to 70°C).
Capillary Overload Temperature	392°F (200°C), maximum 60 min.
Humidity Limit	0 to 95% RH, non-condensing.
Enclosure	Galvanized steel base, ABS cover.
Enclosure Rating	NEMA 1 (IP40).
Capillary Material	Copper.
Cable Entry	(1) M20 compression fitting.
Reset Action	Available in automatic or manual reset options.
Low-level Setpoint	Factory Set: 39°F (4°C), and safety lock secured; Adjustment via screwdriver slot.
Wire Connection	Terminal with wire-retaining screws.
Wire Size	Max. 14 AWG.
Electrical Rating	24-250 VAC, 15 (8) A.
Electrical Connections	Two each NO/NC/Common.
Deadband	1.8°F (fixed).
Weight	1.6 lb (0.7 kg).
Agency Approvals	CE.

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DIMENSIONS



WIRING DIAGRAM



HOW TO ORDER

Use the **bold** characters from the chart below to construct a product code.

DFS2 **-DM** **20**

SERIES
DFS2: Low limit freeze protection switch

CAPILLARY LENGTH
10: 10´ (305 cm)
20: 20´ (609 cm)

RESET ACTION
-DM: Manual
-DA: Automatic

ACCESSORIES

Model	Description
A-DFS2-C	Capillary mounting clips (6 pieces)

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DS-DSF2 Rev. 1

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