



# TS-DFS Series

Low Limit Freeze Protection Switches



## Overview

The TS-DFS Low Limit Freeze Protection Switch series protects cooling coils in air handler systems by preventing frost build up on the coils. By sensing the lowest temperature along any 30 cm (1 foot) 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 1° C (34°F) utilizing the visual set point indicator and set point screw.

## Applications

- Used to prevent frost build up on cooling coils

## Features & Benefits

- Manual and auto reset relays
- Adjustable set points
- Includes mounting clips for easy installation

## Accessories

### Calibration Certificate

TS-CC1-N	Capillary Clip for Low Limit Freeze Protection Switch
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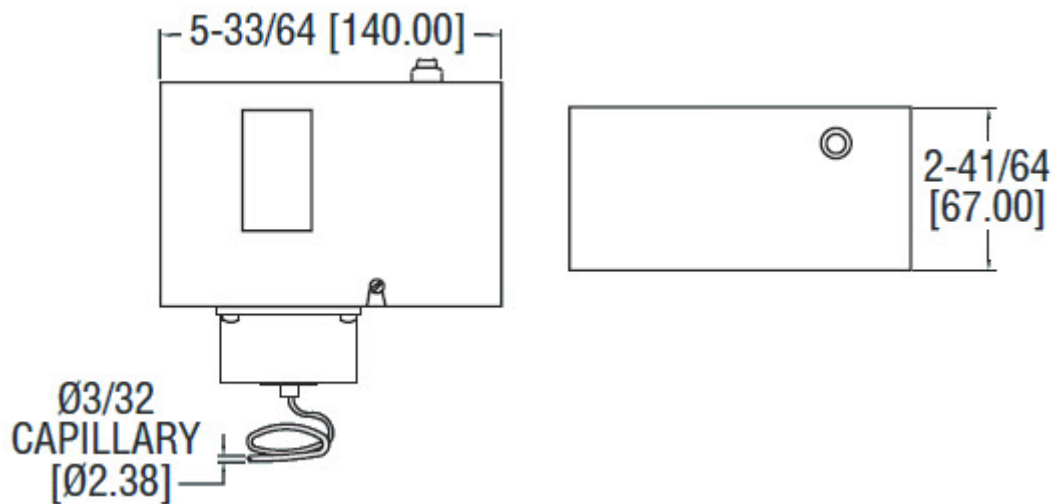
## Model Selection

TS-DFS-DM20	Manual reset; 20' (609 cm)
TS-DFS-DA20	Automatic reset; 20' (609 cm)
TS-DFS-DM10	Manual reset; 10' (305 cm)
TS-DFS-DA10	Automatic reset; 10' (305 cm)

## Product 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

## Dimensions



Specifications subject to change without notice.  
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