

Cut-Out Capillary Thermostats



DBTF

DESCRIPTION

Manual and automatic reset and fixed differential, low temperature, cut-out capillary thermostats.

APPLICATION

Control and monitor frost temperature of make-up air heater coils.

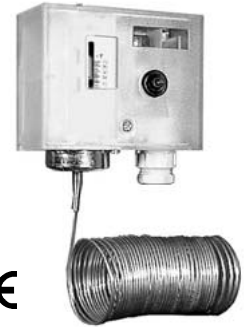
FEATURES

- Auto & manual reset
- Six to twenty feet capillary
- Low temperature setpoint safety lock

SPECIFICATIONS

Type of operation	On/Off, single-stage, micro switch
Output	1 SPDT, or 2 SPDT, 24 to 250 VAC, 15 (8) A
Differential switching	1.8°F (1°K), fixed for auto reset
Control range	14°F to 54°F (-10°C to 12°C)
Setpoint safety lock	At 35.6°F (2°C) factory set, field adjustable
Setpoint adjustment	Screw driver slot
Sensing element	Vapor-filled copper capillary
Capillary size	Diameter 0.08 in. (2 mm)
Permissible ambient temperature	
- Capillary, max.	392°F (200°C) max. 60 min.
- Storage, max.	-4°F to 158°F (-20°C to 70°C)
Wire	
- Connection	Terminal with wire retaining screws
- Size	Maximum 14 AWG (2.5 mm ²)
Cable entry	M20 fitting, replaceable by 1/2" conduit connection
Housing	
- Material	Metal base, galvanized, ABS cover, fire retardant
- Color	Gray
- Protection	NEMA 1 (IP 40)
- Dimensions	4.1 x 3.3 x 2.1 in. (105 x 83 x 53 mm)
Installation	Duct and across coil mounted
Ship weight	2.0 lb (0.9 kg)

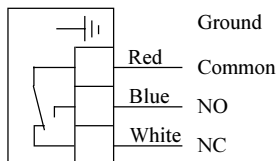
certified ISO 9001



"Bulb on 6-ft capillary stores excess gas; still responds to the lowest temperature along any one foot of entire capillary length."

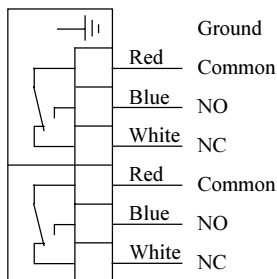
WIRING DIAGRAM

DBTF



Falling temperature and attained low cut-out point, contact connection: Red to Blue

DBTF-.2



Vapor-filled capillary; control responds to the lowest temperature along any one foot of entire capillary length.

Capillary Length ft (m)	SPDT 15(8)A	Reset	Part Number
6 (1.8)	1	Auto	DBTF-3-US
6 (1.8)	1	Manual	DBTF-3R-US
10 (3)	1	Auto	DBTF-5-US
10 (3)	1	Manual	DBTF-5R-US
20 (6)	1	Auto	DBTF-1-US
20 (6)	1	Manual	DBTF-1R-US
6 (1.8)	2	Auto	DBTF-32-US
6 (1.8)	2	Manual	DBTF-3R2-US
10 (3)	2	Auto	DBTF-52-US
10 (3)	2	Manual	DBTF-5R2-US
20 (6)	2	Auto	DBTF-12-US
20 (6)	2	Manual	DBTF-1R2-US
Capillary mntg. brackets, metal (6 pcs)			DBZ-05/0