



THERMOSTATS & CONTROLLERS

LOW-LIMIT TEMPERATURE CONTROL

TSA, TF142

DESCRIPTION

Models TSA and TF142 provide low-limit temperature control in operating dampers, valves, compressors, or fan motors in HVAC systems. Manual and automatic reset models are available with SPDT or DPDT switching action. Models TSA and TF142 respond to the lowest temperature sensed along any 1' (0.3m) section of the capillary element.

FEATURES

- SPDT and DPDT models
- Manual and automatic reset models
- Easy set point adjustment
- Manual test lever
- One year warranty



TSA



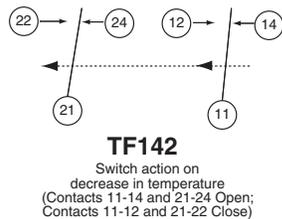
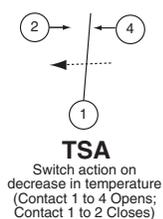
TF142



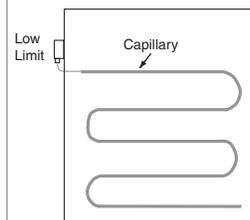
SPECIFICATIONS

Model	TSA-DOP	TSA-COP	TF142-SODP20/SODP06	TF142-SOAP20/SOAP06
Reset	Manual	Automatic	Manual	Automatic
Setpoint Range	35° to 68°F (2° to 20°C)		34° to 70°F (1° to 21°C)	
Differential	4.5°F (2.5°C) fixed		4.5°F (2.5°C) fixed	
Switch Type	SPDT, snap acting		DPDT, snap acting	
Contact Rating	Inductive 24 FLA, 144 LRA @ 120-240 VAC 2 hp @ 120 VAC; 3 hp @ 240 VAC Pilot duty 720 VA max @ 120-600 VAC 144 VA max @ 24 VAC		Inductive 14 FLA, 84 LRA @ 120 VAC; 12 FLA, 72 LRA @ 240 VAC 3/4 hp @ 120 VAC; 2 hp @ 240 VAC Pilot duty 720 VA max @ 120-600 VAC 144 VA max @ 24 VAC	
Sensing Element	Vapor-filled copper capillary, tin-plated 5/64" (0.2 cm) x 20' (609.6 cm), or 6' (182.9 cm)			
Operating Temperature	-60° to 160°F (-51° to 71°C) Sensing Element 300°F (149°C) max		-60° to 160°F (-51° to 71°C) Sensing Element 300°F (149°C) max	
Dimensions	2.94"H x 3.34"W x 1.56"D (7.47 x 8.48 x 3.56 cm)		3.63"H x 5.5"W x 2.63"D (9.21 x 13.97 x 6.67 cm)	
Weight	1 lb (0.45 kg)		2.8 lb (1.3 kg)	
Approvals	UL and ULC listed, CE, File # E85974, E300881			
Warranty	1 year			
Accessories	M-648-K capillary mounting clip (order separately)		Mounting clips supplied with each control	

WIRING



INSTALLATION



Install capillary element in a horizontal serpentine pattern across the duct on the downstream side of the coil so it is exposed to areas where low temperatures will occur. Do not kink or apply excessive force to the capillary element.

ORDERING INFORMATION

MODEL	DESCRIPTION
TSA-DOP	Low-limit temperature control, SPDT, manual reset
TSA-COP	Low-limit temperature control, SPDT, automatic reset
TF142-SODP20	Low-limit temperature control, DPDT, manual reset
TF142-SODP06	Low-limit temperature control, DPDT, manual reset, 6 ft cap
TF142-SOAP20	Low-limit temperature control, DPDT, automatic reset
TF142-SOAP06	Low-limit temperature control, DPDT, automatic reset, 6 ft cap

RELATED PRODUCTS

		PAGE
CC-1G-K	Plastic capillary and sensor holder mounting clip	1154
ES1051	Freeze spray, 8 fl oz	1155
M-648-K	Copper-clad capillary mounting clip	1154