Temperature Controller

DTC231-TC & DTC331-TC



72 x 72mm

96 x 96mm

Features :

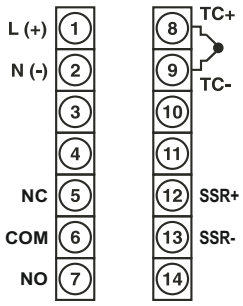
- 3 Digits, 7 Segment LED single display
- TC (J, K) Input
- ON - OFF Control
- Single set point
- °C/°F Selectable
- Control output: Relay
- Short depth

Technical specifications

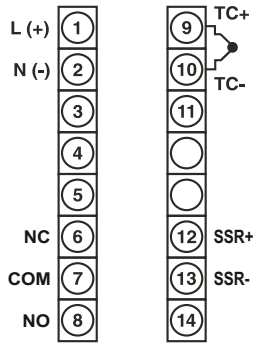
Display specifications	
Display	3 Digits, 7 Segment LED single display
Height of display	13.5 mm
LED Indication	R: Control output ON
Input specifications	
Inputs	Thermocouple (J, K)
Resolution	Fixed 1°
Indication accuracy	0.25% of F.S ±1 (20 Min of warm up time)
Temperature unit	°C/°F Selectable
Input filter (FTC)	0.2 to 10.0 sec
Sampling time	250 ms
Output specifications	
Relay contact	Main output: NO :10A 250 VAC/ 24 VDC NO/ NC: 5A/ 5A 250 VAC/ 24 VDC
SSR Drive (Voltage pulse)	12 VDC, 30 mA
Functional specifications	
Control action	ON-OFF Control
Hysteresis width	0.1 to 99.9°
Display bias	- 19.9 to 19.9°
Auxiliary supply specifications	
Supply voltage	90 to 270 VAC/ DC (AC: 50/ 60Hz)
Power consumption	4 VA Max
Environment specifications	
Temperature	Operating: 0°C to 50°C (32 to 122°F); Storage: - 20°C to 75°C (- 4 to 167°F)
Humidity (Non - condensing)	95% RH
Mechanical specifications	
Mounting	Panel
Weight	180 gms

Terminal connections

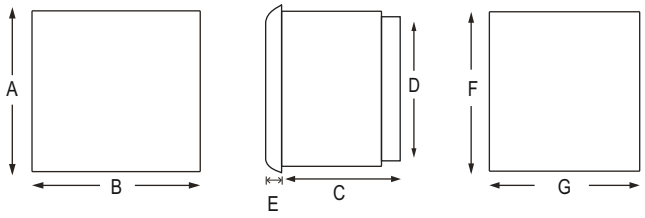
DTC231-TC



DTC331-TC



Dimensions (All are in mm)



Front bezel | Side view | Panel cutout

MODELS / DIM	A	B	C	D	E	F	G
DTC231-TC	76	76	44	67	4.5	69	69
DTC331-TC	99	99	39	90.5	3.5	92	92

Ordering information

Product code	Output 1	Supply voltage	Certification
DTC231-TC	RELAY (10A)	90 to 270V AC / DC	- - -
DTC331-TC	RELAY (10A)	90 to 270V AC / DC	- - -