

## Datasheet JTL-8

Articlenumber: E6110049

Air heater thermostat, 70...100°C (burner), 20...70°C (fan), 100°C (STB), capillary length 350mm

Minimum or maximum thermostat for supply air monitoring and fan control in ventilation and air conditioning systems. Type-tested by TÜV in accordance with DIN EN 14597. For hot air heaters in accordance with DIN 4794. Sensor break: In the event of sensor damage or sensor break, contacts 1 and 4 of the fan open. Intrinsic safety/cold protection: The appliances are intrinsically safe, i.e. if the sensor medium is lost, e.g. due to sensor breakage, the burner is switched off. As temperatures below freezing produce the same effect by reducing the volume of the sensor medium, the devices are adjusted by means of the "cold screw" so that they only switch off the burner at temperatures below -15 °C. The appliance can only be switched back on manually at temperatures higher than approx. -5 °C using the manual reset button. Overheating protection: The appliance protects against uncontrolled overheating caused, for example, by heat build-up or gradual capillary filling loss in the event of invisible damage to the sensor or capillary tube, etc. When a temperature of 220 °C is reached, the safety slot in the sensor melts and the appliance switches the burner off to the safe side due to loss of the filling medium. The burner cannot be switched on again. The appliance is then unusable and serves as proof that an excess temperature of at least 220 °C has been reached. Overheating protection thermostat for electric heating coils and direct-fired air heaters in oil and gas operation.



Ambient temperature	?15 ... 80 °C
Bearing temperature	-15 ... 80 °C
Burner control range	70 ... 100 °C
Capillary length	0.35 m
Colour	Grey
Cooling control function	Yes
Degree of contamination	2
Device version	Surface-mounted unit
Dimensions (W x H x D)	83 mm x 139 mm x 58 mm
Electric connection	Screw terminals
Electronic control	No

External reset	Yes
Fan control range	20 ... 70 °C
Function type (systems engineering)	TW/STB
Heating control function	Yes
Housing material	Metal sheet steel
Internal setting	Yes
Length of sensor	350 mm
Max. air humidity (non-condensing)	95 % r.H.
Max. Sensor temperature	200 °C
Max. switching current	15 (8) A
Max. switching voltage	230 VAC, 50 Hz
Medium	Air
Min. switching current	150 mA
Min. switching voltage	24 VAC, 50 Hz
Montage/Befestigung	Mounting on air duct
Number of control ranges	2
Number of outputs	4
Operation	Intern. setpoint adjuster, button, switch
Output signal	Switching/locking
Potential free switching contact	Yes
Protection class	I
Rated impulse voltage	4000 V
Safety and EMC	In accordance with DIN EN 60730
Scale	Degree Celsius
Sensor element	Capillary tube
Sensor material	Cu
Surface finish	Matt
Switching contact	2 two-way contacts
Switching element	Microswitch
Switching power	3450 W
With explosion protection	No

