

CLSN3T120

Boiler Temperature Sensor

Product Data



SPECIFICATIONS

Sensor element	NTC thermistor, watertight, cast in sensor cartridge
Resistance	20 Kohm at 25 °C
Operating range	-20...+110 °C
Dimensions (cartridge)	6.5 Ø mm, 50 mm long
Electrical connection	2 m cable, 2 core
Accuracy	0.3 K at 25 °C
Sensitivity	≈ -934.5 Ω / K at 25 °C (non-linear)
Response time	$\tau_{0.5} \approx 10$ s
Ambient temperature	-25...+70 °C
Humidity	5...95% rh, non-condensing
Protection standard	IP64 as per EN 60529

For technical information on the NTC thermistor, see EN0B-0476GE51.

GENERAL

The CLSN3T120 is for sliding regulation of boiler temperature. The prevailing boiler temperature must be continually monitored. The CLSN3T120's sensor cartridge, which is inserted into the boiler, serves this purpose. Due to the sensor's wide temperature range (-20...+110 °C) and its small measurement scale, it can also be used as a universal sensor, e.g. as a supply temperature sensor.

The CLSN3T120 comes complete with a friction spring for snug fit and good thermal contact.

FEATURES

- Temperature range of -20...+110 °C.
- Usable as boiler or universal sensor.

DIMENSIONS

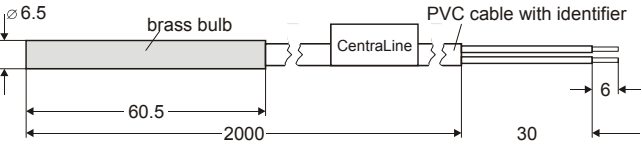


Fig. 1. Dimensions (in mm)

MOUNTING

The best location for measuring the temperature (and therefore also for inserting the CLSN3T120) is the immersion well (for boiler temperature displays, boiler thermostat, and safe temperature guard) already provided in the boiler.

There is usually space for the CLSN3T120 sensor in this well (diameter of the sensor cartridge: 6.5 mm, length: 60.5 mm).

Alternately, the VFHT or VFNT immersion well (optional accessory) can be used.

wiring run	max. length
sensor to controller	200 m

ELECTRICAL CONNECTION

The CLSN3T120 Boiler Temperature Sensor must be wired in accordance with the overall wiring circuit diagram. The terminals are not polarized; thus, if the wires are connected in reverse, no malfunction will occur.

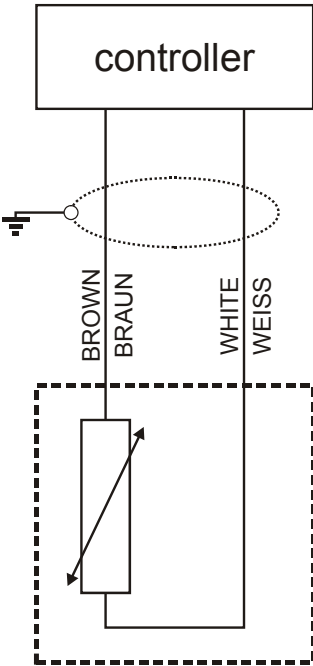


Fig. 2. Electrical connection

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