Manual reset and thermal cut-out

SPNC manual reset high limit, fixed or adjustable set point, fail-safe, 20A.
Type 8L

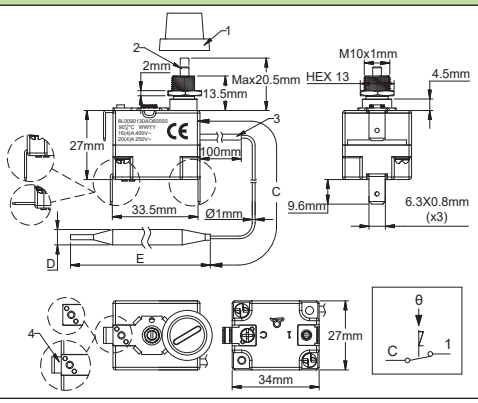
Dimensions

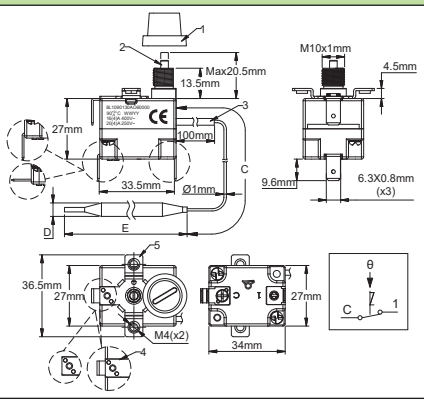
T85 types

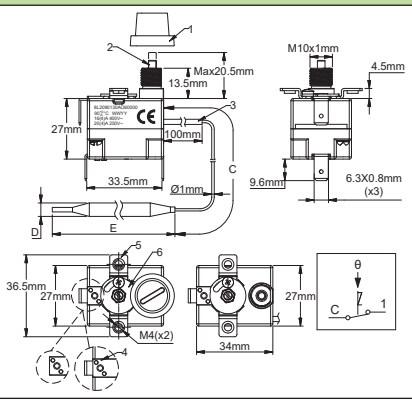


T150 types









8L0: M10 mounting, T85
8L3: M10 mounting, T150
1: Reset button cap
2: Reset button
3: Capillary sleeving
4: Ground terminal (option)

8L1: 2 × M4 screws mounting, T85
8L4: 2 × M4 screws mounting, T150
1: Reset button cap
2: Reset button
3: Capillary sleeving
4: Ground terminal (option)
5: 2xM4 mounting bracket

8L2: 2 × M4 screws mounting and mini adjustment dial, T85
8L5: 2 × M4 screws mounting and mini adjustment dial, T150
1: Reset button cap
2: Reset button
3: Capillary sleeving
4: Ground terminal (option)
5: 2xM4 mounting bracket
6: Mini adjustment dial

Technical features

Applications: Protection against the overheating of the heaters due to an abnormal rise of the liquid temperature due to a flow failure. The mounting of the bulbs can be made inside standard dia. 8.5mm pockets, or in an additional thermowell added on request.
Through wall fittings on capillary are also available. The thermostat body can be installed in a protective cover of the heating elements outputs, or remotely in a separate control cabinet. They are resettable after tripping, but prior full audit of the circuit is essential to find the cause of overheating and correct it before restarting.

Manual reset and thermal cut-out

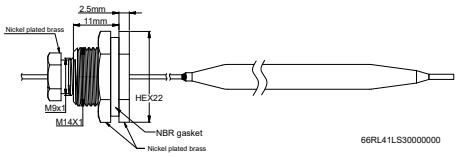
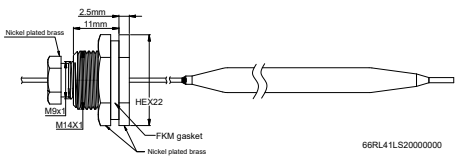
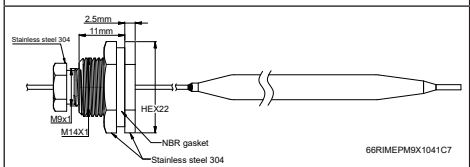
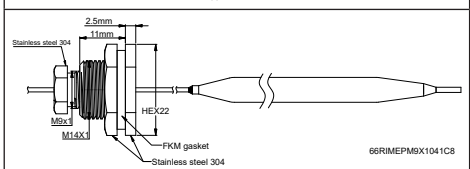
Housing dimensions: 24.7 × 33 × 26mm (without terminals and reset). These thermostats exist in two ambient temperature resistance classes: T85 (cheapest) or T150
Bulb and capillary: Stainless steel, capillary length 250mm to 1500mm, 100mm long PVC sleeve on capillary. Capillary minimum bending radius 5mm.
Temperature sensing element: Liquid filled bulb and capillary.
Terminals: 6.35 × 0.8 quick connect terminals (M4 screws also available on request). Terminals can be vertical, horizontal or bended at 45°
Adjustment: Fixed setting, sealed or adjustable by mini dial
Manual reset: Fail-safe, front access reset button
Fail-safe contact action by low temperature: Temperatures under -10°C (14°F) will trigger the manual reset.
Mounting: Front bushing with M10 × 1 thread, Maximum recommended tighthening torque of M10x1 nut: 1N.m (with 3.5mm thickness nut)
Rating: 20(4)A 250V/16 (4)A 400VAC
Contacts: SPNC snap action contact
Max ambient temperature on body: 85°C (185°F).
Acceptable degree of pollution for use in 250V: 3
Acceptable degree of pollution for use in 400V: 3

Main references in T85 **** with 750mm capillary* and vertical 6.35mm terminals**

References, M10 mounting	References, 2 × M4 bracket mounting	References, 2 × M4 bracket mounting and mini dial	Calibration temperature (°C/°F)	Bulb diameter (D, mm)	Bulb length (E, mm)	Max temperature on bulb (°C/°F)
8L0070105AG60000	8L1070105AG60000	8L2070105AG60000	70 +0/ -8°C (158 +0/ -14.4°F)	6	77	105°C/221°F
8L0080105AG60000	8L1080105AG60000	8L2080105AG60000	80 +0/ -8°C (176 +0/ -14.4°F)	6	77	105°C/221°F
8L0090115AG60000	8L1090115AG60000	8L2090115AG60000	90 +0/ -8°C (194 +0/ -14.4°F)	6	77	115°C/239°F
8L0100120AG60000	8L1100120AG60000	8L2100120AG60000	100 +0/ -8°C (212 +0/ -14.4°F)	6	77	120°C/248°F
8L0110135AG60000	8L1110135AG60000	8L2110135AG60000	110 +0/ -8°C (230 +0/ -14.4°F)	6	77	135°C/275°F
8L0120145AG60000	8L1120145AG60000	8L2120145AG60000	120 +0/ -8°C (248 +0/ -14.4°F)	6	77	145°C/293°F
8L0130155AG60000	8L1130155AG60000	8L2130155AG60000	130 +0/ -8°C (266 +0/ -14.4°F)	6	74	155°C/311°F
8L0150175AG60000	8L1150175AG60000	8L2150175AG60000	150 +0/ -8°C (302 +0/ -14.4°F)	6	74	175°C/347°F
8L0170195AG50000	8L1170195AG50000	8L2170195AG50000	170 +0/ -10°C (338 +0/ -18°F)	5	70	195°C/383°F
8L0190215AG50000	8L1190215AG50000	8L2190215AG50000	190 +0/ -10°C (374 +0/ -18°F)	5	70	215°C/419°F
8L0210235AG40000	8L1210235AG40000	8L2210235AG40000	210 +0/ -12°C (410 +0/ -22°F)	4	65	235°C/455°F
8L0230255AG40000	8L1230255AG40000	8L2230255AG40000	230 +0/ -12°C (446 +0/ -22°F)	4	65	255°C/490°F

* Capillary 250mm: replace G by A in the reference; Capillary 1m: replace G by J in the reference; Capillary 1.5m: replace G by O in the reference.
** Horizontal 6.35 terminals, replace 0000 by 2000 in the reference; 45° bended 6.35 terminals, replace 0000 by 1000 in the reference. Screw terminals, ask for data sheet.
*** Ground terminal option: replace 0000 at the end of references by 0G00
**** T150 types, replace 8L0 by 8L3, 8L1 by 8L4, 8L2 by 8L5.
Set point temperature up to 500°C can be made, without fail safe action for calibration higher than 400°C. Ask for specific data sheet.

Accessories (Must be ordered separately, shipped assembled on capillary)

	**Nickel plated brass capillary fitting for use on liquids up to 130°C (Capillary gasket in NBR)**	66RL41LS30000000
	**Nickel plated brass capillary fitting for use on liquids up to 230°C (Capillary gasket in FKM)**	66RL41LS20000000
	**Stainless steel 304 capillary fitting for use on liquids up to 130°C (Capillary gasket in NBR)**	66RIMEPM9X1041C7
	**Stainless steel 304 capillary fitting for use on liquids up to 230°C (Capillary gasket in FKM)**	66RIMEPM9X1041C8