

# Type 8G.

## Single pole control thermostat, bulb and capillary

2016 improvements:

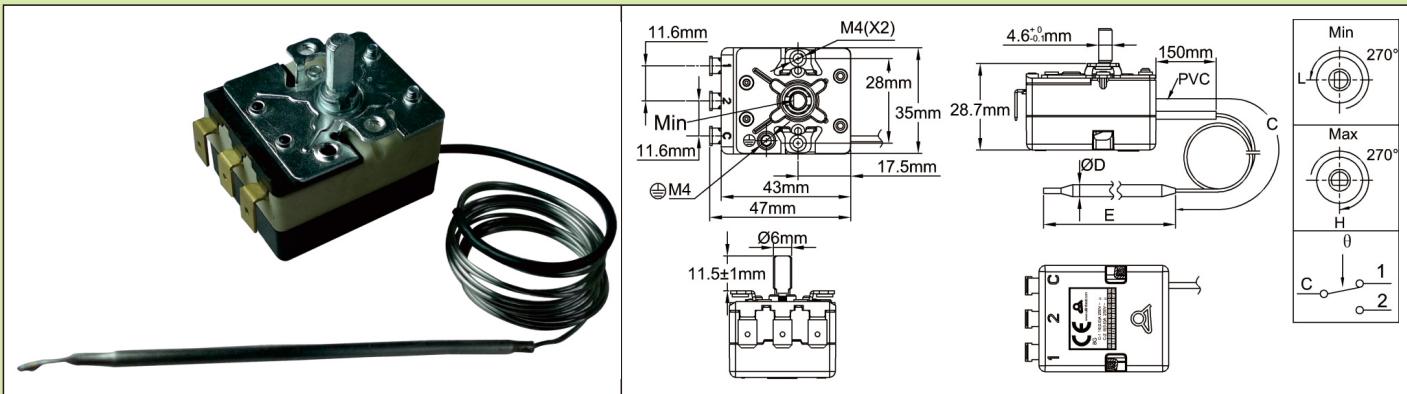
-New temperature ranges,

-Reduced differential,

-Ground terminal,

-Power rating up to 20A 250V,

-Aligned terminals, compatible with 3 way connectors.



**Housing dimensions:** 43 x 35 x 29 mm (without terminals)

**Bulb and capillary:** stainless steel, with 150 mm long PVC sleeve on the capillary. Capillary minimum bending radius is 5 mm. No capillary sleeve for temperature ranges above 400°C (750°F)

**Temperature sensing element:** Oil filled bulb and capillary.

**Caution:** Temperature ranges above 400°C (750°F) are filled with sodium-potassium eutectic. In case of breakage of the bulb or capillary, this liquid may self-ignite at room temperature in the presence of water or moisture.

**Terminals:** 6.35 x 0.8 quick connect terminals, 90° bended. Straight terminals or terminals with M4 screws also available on request. (MOQ apply). Terminal positions and alignment allow the use of a connector with flat or bended terminals.

**Adjustment:** Dia. 6 mm shaft with 4.6 mm flat, length 11.5 mm. Other lengths, screw driver adjustment or fixed setting available on request.

**Mounting:** Front bracket with 2 x M4 threads, 28 mm distance

**Grounding:** M4 thread on mounting bracket

**Contact:** SPDT

**Electrical rating, resistive loads:**

-Open on temperature rise contact (C-1)

16A 250V, 50 ~60Hz: >100000 cycles,

20A 250V, 50 ~60Hz: ≥ 50000 cycles,

10A 400V, 50 ~60Hz: ≥ 50000 cycles.

-Close on temperature rise contact (C-2): 6A 250V 50 ~60Hz: >100000 cycles

**Electrical rating, inductive loads:**

-Open on temperature rise contact (C-1): **6A 250V**, 50 ~60Hz: >100000 cycles

-Close on temperature rise contact (C-2): 0.6A 250V 50 ~60Hz: >100000 cycles

### Main references

| Reference        | Temperature range °C (°F) | Capillary length (C, mm) | Bulb diameter (D, mm)          | Bulb length (E, mm) | Differential °C (°F) | Max temperature on bulb °C (°F) |
|------------------|---------------------------|--------------------------|--------------------------------|---------------------|----------------------|---------------------------------|
| 8GB-35035AO60001 | -35+35°C (-30+95°F)       | 1500                     | 6                              | 120±5               | 1,6±1°C (2,9±2°F)    | 60°C (140°F)                    |
| 8GB-35035AA60001 | -35+35°C (-30+95°F)       | 250                      | 6                              | 120±5               | 1,6±1°C (2,9±2°F)    | 60°C (140°F)                    |
| 8GB-10040AO60001 | -10+40°C (15-105°F)       | 1500                     | 6                              | 107±5               | 1,5±1°C (2,7±2°F)    | 70°C (158°F)                    |
| 8GB-10040AA60001 | -10+40°C (15-105°F)       | 250                      | 6                              | 107±5               | 1,5±1°C (2,7±2°F)    | 70°C (158°F)                    |
| 8GB004040AQ30001 | 4-40°C (40-105°F)         | 250                      | Pig tail style, dia. 30mm coil | 55±10               | 1±0.5°C (1,8±1°F)    | 70°C (158°F)                    |
| 8GB004040AA80001 | 4-40°C (40-105°F)         | 250                      | 8                              | 85±5                | 1±0.5°C (1,8±1°F)    | 70°C (158°F)                    |
| 8GB004040AO60001 | 4-40°C (40-105°F)         | 1500                     | 6                              | 120±5               | 1±0.5°C (1,8±1°F)    | 70°C (158°F)                    |
| 8GB004040AA60001 | 4-40°C (40-105°F)         | 250                      | 6                              | 120±5               | 1±0.5°C (1,8±1°F)    | 70°C (158°F)                    |
| 8GB000060AO60001 | 0-60°C (32-140°F)         | 1500                     | 6                              | 86±5                | 2.5±1°C (4,5±1,8F)   | 80°C (176°F)                    |
| 8GB000060AA80001 | 0-60°C (32-140°F)         | 250                      | 8                              | 63±5                | 2.5±1°C (4,5±1,8F)   | 80°C (176°F)                    |
| 8GB000090AO60001 | 0-90°C (32-195°F)         | 1500                     | 6                              | 98±5                | 2.5±1°C (4,5±1,8F)   | 120°C (250°F)                   |
| 8GB030090AO60001 | 30-90°C (85-195°F)        | 1500                     | 6                              | 98±5                | 2.5±1°C (4,5±1,8F)   | 120°C (250°F)                   |
| 8GB030090AA80001 | 30-90°C (85-195°F)        | 250                      | 8                              | 63±5                | 2.5±1°C (4,5±1,8F)   | 120°C (250°F)                   |
| 8GB030110AO60001 | 30-110°C (85-230°F)       | 1500                     | 6                              | 86±5                | 2.5±1°C (4,5±1,8F)   | 140°C (284°F)                   |
| 8GB030110AA80001 | 30-110°C (85-230°F)       | 250                      | 8                              | 55±5                | 2.5±1°C (4,5±1,8F)   | 140°C (284°F)                   |
| 8GB050200AO60001 | 50-200°C (120-390°F)      | 1500                     | 6                              | 65±5                | 4±2°C (7±3,6F)       | 230°C (446°F)                   |
| 8GB050300AO30001 | 50-300°C (120-570°F)      | 1500                     | 3                              | 145±5               | 10°C±2°C (18±3,6F)   | 330°C (626°F)                   |
| 8GB100400AO30001 | 100-400°C (210-750°F)     | 1500                     | 3                              | 93±5                | 10°C±2°C (18±3,6F)   | 430°C (800°F)                   |
| 8GB100500AE40000 | 100-500°C (210-930°F)     | 500                      | 4                              | 235±5               | 10°C±2°C (18±3,6F)   | 550°C (1000°F)                  |
| 8GB100500AG40000 | 100-500°C (210-930°F)     | 750                      | 4                              | 235±5               | 10°C±2°C (18±3,6F)   | 550°C (1000°F)                  |
| 8GB100500AN40000 | 100-500°C (210-930°F)     | 1400                     | 4                              | 235±5               | 10°C±2°C (18±3,6F)   | 550°C (1000°F)                  |

Other temperature ranges available on request.

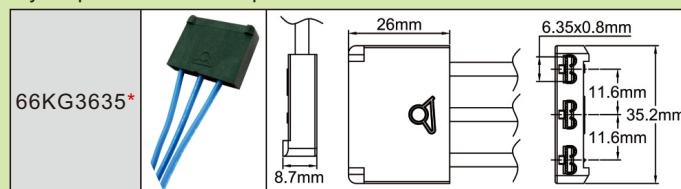
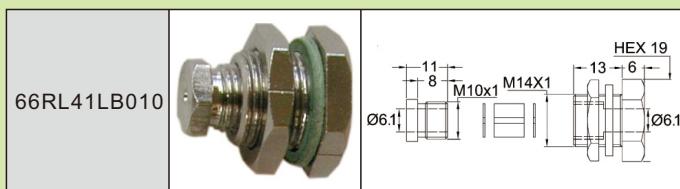


## Type 8G.

### Single pole control thermostat, bulb and capillary

Capillary stuffing box with flat fiber gasket and M14 nut. Silicone seal. Nickel plated brass body. Max temperature 220°C.

3 way connector. Exists unassembled, with female terminals non-crimped, or assembled, with crimped wires, length, gauge and style upon customer request.



\* The 16 character full reference is issued upon customer wire types and length specs

Many other accessories are available: pockets, flanges, fittings: see the full list in catalogue #1.

#### Usual knobs and bezels.

| °C Printing      |                  |                  |                  |                  |                  |
|------------------|------------------|------------------|------------------|------------------|------------------|
| 0-10             | -35+35°C         | -10+40°C         | 4-40°C           | 0-60°C           | 0-90°C           |
|                  |                  |                  |                  |                  |                  |
| 66MZ0000010502FW | 66MZ006-350352FW | 66MZ006-100402FW | 66MZ0060040402FW | 66MZ0060000602FW | 66MZ0060000902FW |
| 30-90°C          | 30-110°C         | 50-200°C         | 50-300°C         | 100-400°C        | 100-500°C        |
|                  |                  |                  |                  |                  |                  |
| 66MZ0060300901FW | 66MZ0060301101FW | 66MZ0060502001FW | 66MZ0060503001FW | 66MZ0061004007FW | 66MZ0061005007FW |

| °F Printing      |                  |                  |                  |                  |                  |
|------------------|------------------|------------------|------------------|------------------|------------------|
| 0-10             | -30+95°F         | 15-105°F         | 40-105°F         | 32-140°F         | 32-195°F         |
|                  |                  |                  |                  |                  |                  |
| 66MZ0000010502FW | 66MZ006-350352FX | 66MZ006-100402FX | 66MZ0060040402FX | 66MZ0060000602FX | 66MZ0060000902FX |
| 85-195°F         | 85-230°F         | 120-390°F        | 120-570°F        | 210-750°F        | 210-930°F        |
|                  |                  |                  |                  |                  |                  |
| 66MZ0060300901FX | 66MZ0060301101FX | 66MZ0060502001FX | 66MZ0060503001FX | 66MZ0061004007FX | 66MZ0061005007FX |

| Modern design soft grip knob, dia.41mm. Polycarbonate and rubber. | Skirt knob, dia 50mm, black ABS. | US 2" size knob, dia 50mm. Black PA66. | Miniature knob dia. 10mm. Black PA66. | Black or chromed ABS bezel, for dia. 41 mm knobs. | Black or chromed ABS bezel, for dia. 50mm knobs. | Stainless steel bezel for knobs dia. 41 mm | Stainless steel bezel for knobs dia. 50 mm |
|---|----------------------------------|--|---------------------------------------|---|--|--|--|
|   |                                  |  |                                       |   |  |  |  |
| 66MZ*   | 66MU*                            | 66MP*                                  | 66MQ                                  | Black: 66EN1<br>Chromed: 66EN3                    | Black: 66EN5<br>Chromed: 66EN6                   | 66EN2**                                    | 66EN4**                                    |

\*Full knob reference with printing has 16 characters. Many others knobs are available, see the full knob list at the end of catalogue N°1.

\*\* Low cost versions also available in Nickel or Chrome plated steel

