



P2

Y0308G

Thermostat with IP44 plastic enclosure, 77,5 x 54 x 53 mm, stainless steel pigtail bulb for ambient temperature measurement.



P3

Y0D

Thermostat with IP44 extra flat plastic enclosure, 95 x 60 x 40mm, with pilot light, stainless steel pigtail bulb for ambient temperature measurement. 1, 2 or 3 cable glands, for heat tracing applications.



P4

Y0A

Thermostat with IP44 extra flat plastic enclosure, 95 x 60 x 40mm, with pilot light. Bulb and capillary for distance temperature measurement. 1, 2 or 3 cable glands, for heat control applications.



P5

Y0B

Thermostat with IP44 extra flat plastic enclosure, 95 x 60 x 40mm, with pilot light. Rod temperature sensor. Stainless steel or Brass pocket. 1, 2 or 3 cable glands.



P6

Y06 - Y07

Combination of thermostat and manual reset limiter combination, with IP44 plastic enclosure, 105 x 88 x 58.5mm, with pilot light, rod temperature sensing.



P7

Y08

Thermostat and manual reset limiter combination, with IP44 plastic enclosure, 105 x 88 x 58.5mm, with pilot light, capillary output for distant sensing.



P8

Y09

Thermostat and manual reset limiter combination, with IP44 plastic enclosure, 105 x 88 x 58.5mm, with pilot light, special bracket for direct mounting on 1"1/2 or M45 immersion heaters



P9

72J - 72C

Dia. 10 mm cartridge thermostat with 1/2" or M14x1.5 fitting, calibration from 50 to 150°C. For alarm or thermal safety



P10

UWJ

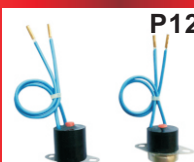
Miniature temperature limiter (31 x 19 x 10mm), for explosive gas atmospheres (ATEX and IECex), calibration from 40 to 150°C.



P11

49C

Over-molded disc thermostat on heat tracing cable, and over-molded heat tracing cable termination.



P12

4REMR

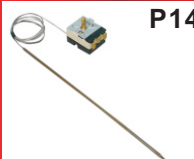
Epoxy potted waterproof manual reset disc thermostat. 2 Wires output



P13

WQD

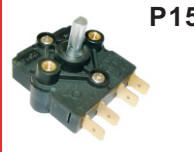
Wood stove damper bulb and capillary thermostat. Combustion control by air input trottle



P14

8GB060500

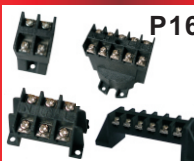
Bulb and capillary thermostat, range 60-500°C. SPDT contact



P15

LS

Rotary switch for thermostat shaft. 20A 250-400V. SPST or DPST contact (one level) or 3 or 4 poles contact (2 levels)



P16

BE2/BE3/BE5/BE6

Elevated connection blocks, 2 x2.5mm², 3x2.5mm², 5 x2.5mm² and 6x2.5mm² for immersion heaters enclosures.



P17

Y301SUC2EA2

48 x 48 x 50 mm enclosure for cartridge thermostats or cartridge immersions heaters with 1/2" thread. Built in connection block 3.x2.5mm².



P17

Y308E

180 x 130 x 78 mm immersion heater enclosure, with 26mm extension for immersion heaters with 1"1/2 or M45 fittings. Built in 6x10mm²+2x2.5mm² or 5x6mm²+5x2.5mm² connection block.



P17

Y307E

130 x 130 x150 mm immersion heater enclosure, with 40mm extension for immersion heaters with fittings from 1"1/2 to M77. Built in 6x10mm²+2x2.5mm² or 5x6mm²+5x2.5mm² connection block



P18

6YTP

Heat tracing cable end boots with silicone gel filling.

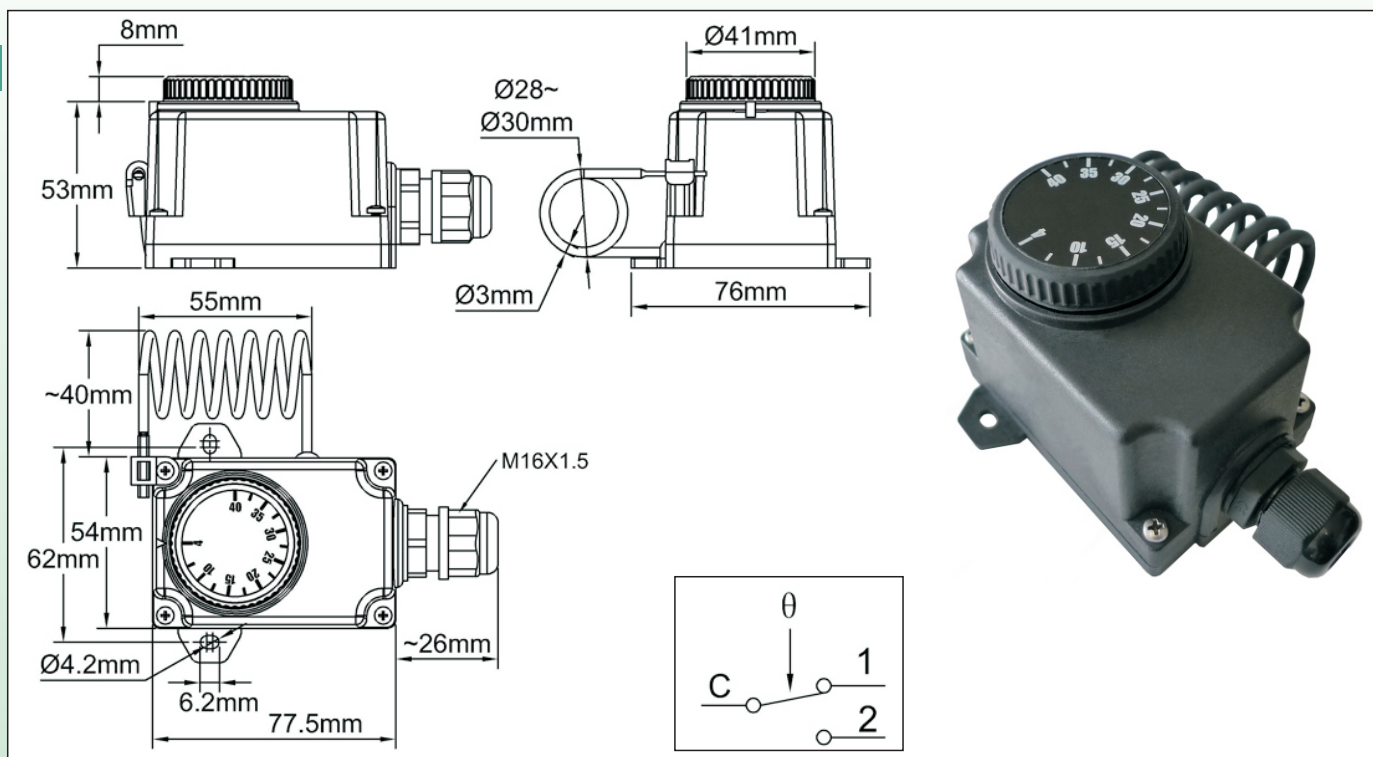


P19

9BF

Flexible silicone enclosures for flexible heating pad thermostats and sensors.

2015 New products **“Pigtail” bulb room thermostat, IP44 enclosure** **Type Y0308G**



Applications

Ambient temperature control in professional premises where good protection to liquid splashes or dust is requested. Used in technical rooms, livestock premises, as frost protection or temperature control of heating or ventilation.

Main features

Housing: IP44, 77.5 x 54 x 53 mm, (Knob and cable gland not included), black PC-ABS, UL94V0. High impact and UV resistance. 2 removable wall mounting lugs.

Electrical input: M16 cable gland.

Temperature Adjustment: With °C or °F printed knob.

Sensing element: Liquid filled “pigtail” bulb, mounted on the side of plastic housing

Adjustment ranges: 4-40°C (40-105°F).

Electrical connections: screw terminals

Mounting: Wall mounting, by two side lugs with holes for dia. 4mm screws, 62 mm distance.

Contact: SPDT

Electrical rating:

- Open on temperature rise contact (C-1) 16A(2.6) 250VAC

- Close on temperature rise contact (C-2) 6A(0.6) 250VAC

- Electrical life > **100.000 cycles**.

Main references

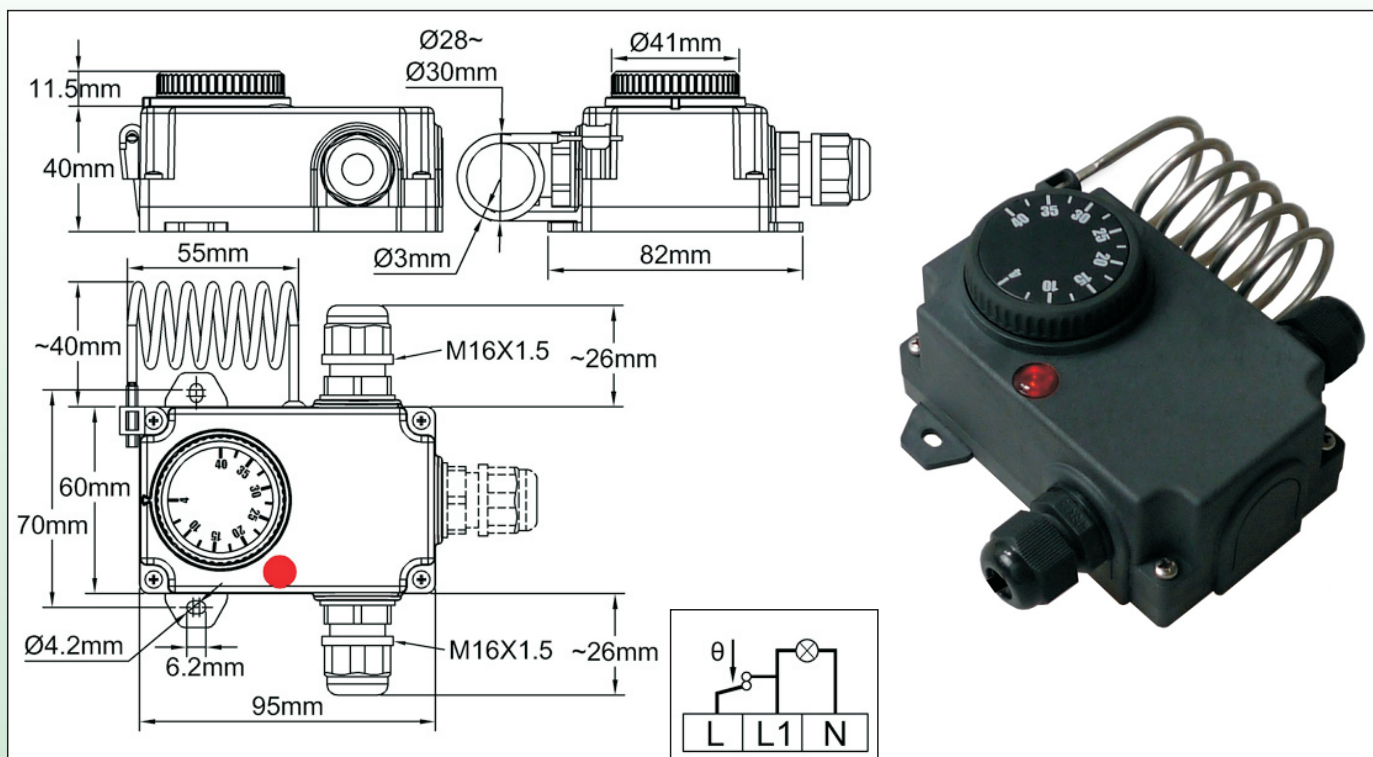
References	Temperature ranges	Differential	Max ambient temperature
Y308GA004040QB3J	4-40°C	3±2 °C	60°C
Y308GA004040QB3K	40-105°F	5.5±4°F	140°F

Knobs printing

°C Printing	°F Printing
4-40°C	40-105°F

Because of permanent improvement of our products, drawings, descriptions, features used on these data sheets are for guidance only and can be modified without prior advice

2015 New products **“Pigtail” bulb room thermostat, 2 or 3 cable glands IP44 enclosure,** **for heat tracing, with built-in pilot light.** **Type Y0D**



Applications

Ambient temperature control in professional premises where good protection to liquid splashes or dust is requested.
 Output with 2 or 3 cable glands, allowing direct connection of heat tracing cables for freeze protection.

Main features

Housing: Small height, IP44, 95 x 60 x 40 mm, (Knob and cable glands not included), black PC-ABS, UL94V0. High impact and UV resistance. 2 removable wall mounting lugs.
Electrical input: M16 cable glands. Delivered with 2 cable glands (3 on request). Positioning the cable glands allows variations in the mounting position
Temperature adjustment: With °C printed knob. (°F printed knobs available in option)
Sensing element: Liquid filled “pigtail” bulb, mounted on the side of plastic housing
Adjustment ranges: 4-40°C (40-105°F).
Electrical connections: On screw terminals. (It is possible to connect 2 wires 1.5mm² on each terminal).
Mounting: Wall mounting, by two side lugs with holes for dia. 4mm screws, 70mm distance.
Contact: SPNC (open on temperature rise). One terminal is available for neutral connection. SPDT contact available on request but it is not compatible with neutral terminal and pilot light.
Electrical rating: 16A(2.6) 250VAC
 -Electrical life >100.000 cycles.

Main references with 2 cable glands*

°C		°F		Differential	Max temperature on bulb
Reference (°C)	Temperature ranges (°C)	Reference (°F)	Temperature ranges (°F)		
Y0D8GD00404QB3C	4-40°C	Y0D8GD00404QB3K	40-105°F	3±2°C (5.5±4 °F)	60°C (140°F)

*3 cable glands version: replace D8G by D8H in the reference

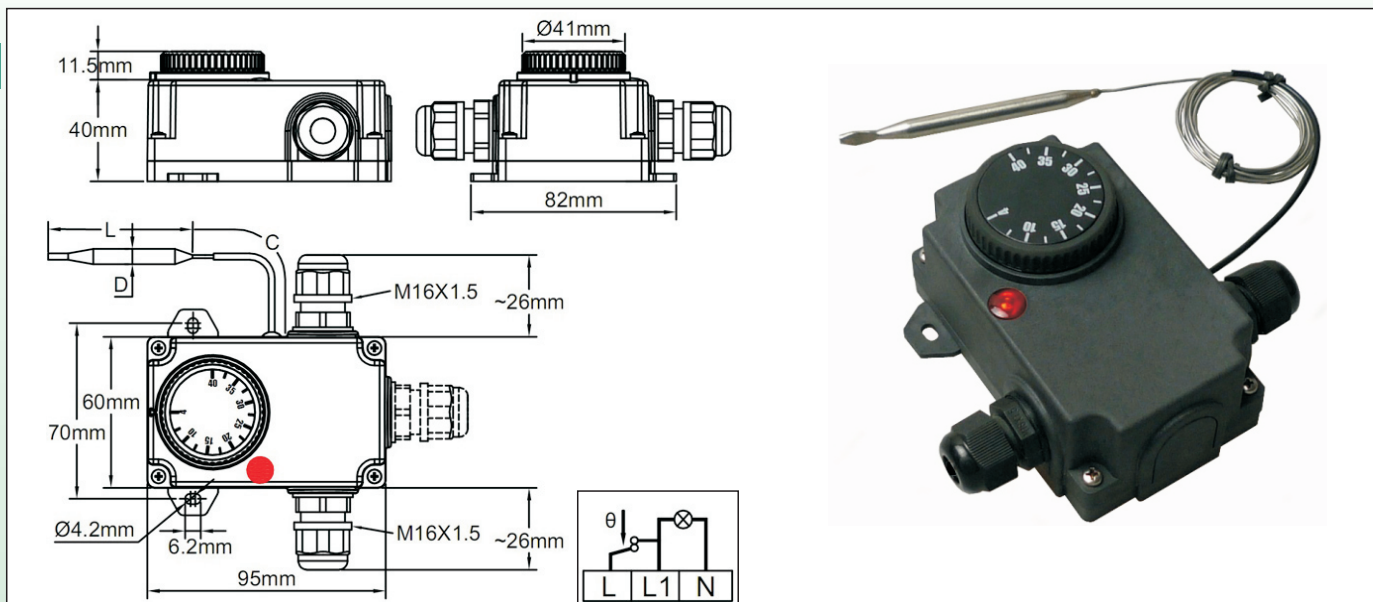
Knobs printing

°F Printing	°C Printing
40-105°F	4-40°C

2015 New products

Bulb and capillary thermostat, 2 or 3 cable glands IP44 enclosure, for heat control, with built-in pilot light.

Type Y0A



Applications

Distance temperature control in professional premises where good protection to liquid splashes or dust is requested. Output with 2 or 3 cable glands, allowing direct connection of heat tracing cables, radiators or immersion heaters.

Housing: Small height, IP44, 95 x 60 x 40 mm, (Knob and cable glands not included), black PC-ABS, UL94V0. High impact and UV resistance. 2 removable wall mounting lugs.

Electrical input: M16 cable glands. Delivered with 2 cable glands (3 on request). Positioning the cable glands allows variations in the mounting position

Temperature adjustment: With °C printed knob. (°F printed knobs available in option)

Sensing element: Liquid filled bulb, distance measurement with capillary.

Adjustment ranges: -35+35°C (-30+95°F), 4-40°C (40-105°F), 30-90°C (85-195°F), 30-110°C (90-230°F), 50-200°C (120-390°F), 50-300°C (120-570°F)

Capillary length: 1.5 m

Electrical connections: On screw terminals. (It is possible to connect 2 wires 1.5mm² on each terminal.)

Mounting: Wall mounting, by two side lugs with holes for dia. 4mm screws, 70mm distance.

Contact: SPNC (open on temperature rise). One terminal is available for neutral connection. SPDT contact available on request but it is not compatible with neutral terminal and pilot light.

Electrical rating: 16A(2.6) 250VAC

-Electrical life >100.000 cycles.

Main references with 2 cable glands*

°C		°F		Bulb diameter (D, mm)	Bulb length (L, mm)	Differential	Max temperature on bulb
References (°C)	Temperature ranges (°C)	References (°F)	Temperature ranges (°F)				
Y0A8GD-35035AO6J	-35+35°C	Y0A8GD-35035AO6K	-30+95°F	6	98	3±2°C (5.5±4°F)	55°C (130°F)
Y0A8GD004040AO6J	4-40°C	Y0A8GD004040AO6K	40-105°F	6	140	3±2°C (5.5±4°F)	60°C (140°F)
Y0A8GD030090AO6J	30-90°C	Y0A8GD030090AO6K	85-195°F	6	87	4±3°C (7±5.5°F)	120°C (250°F)
Y0A8GD030110AO6J	30-110°C	Y0A8GD030110AO6K	90-230°F	6	93	5±3°C (9±7°F)	150°C (300°F)
Y0A8GD050200AO6J	50-200°C	Y0A8GD050200AO6K	120-390°F	6	59	8±5°C (14±9°F)	250°C (480°F)
Y0A8GD050300AO3J	50-300°C	Y0A8GD050300AO3K	120-570°F	3	165	10±5°C (18±9°F)	350°C (660°F)

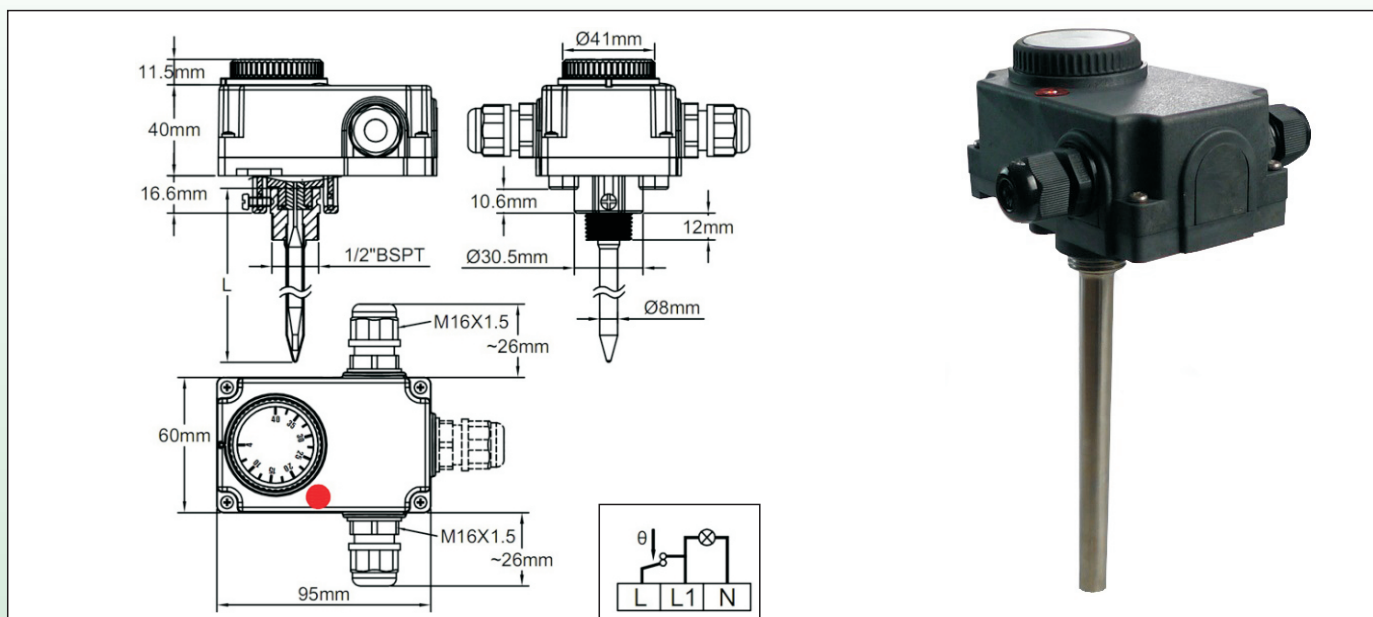
*3 cable glands version: replace A8G by A8H in the reference

Knobs printing

°C Printing					
-35+35°C	4-40°C	30-90°C	30-110°C	50-200°C	50-300°C
°F Printing					
-30+95°F	40-105°F	85-195°F	85-230°F	120-390°F	120-570°F

2015 New products

Rod thermostat, 2 or 3 cable glands IP44 enclosure, for heat control, with built-in pilot light. Stainless steel or nickel plated brass pocket
Type Y0B



Applications

Temperature control of tanks or pipes in professional premises where good protection to liquid splashes or dust is requested. Output with 2 or 3 cable glands, allowing direct connection of immersion heaters.

Housing: Small height, IP44, 95 x 60 x 40 mm, (Knob and cable glands not included), black PC-ABS, UL94V0. High impact and UV resistance. 2 removable wall mounting lugs.

Electrical input: M16 cable glands. Delivered with 2 cable glands (3 on request). Positioning the cable glands allows variations in the mounting position

Temperature adjustment: With °C printed knob. (°F printed knobs available in option)

Sensing element: Liquid filled bulb, located inside a backside mounted 304L stainless steel pocket.

Adjustment ranges: -35+35°C (-30+95°F), 4-40°C (40-105°F), 30-90°C (85-195°F), 30-110°C (90-230°F)

Rod length: 90, 230, 300 mm. Other length on request

Mounting:

- by the 1/2"BSPT (Tapped) pocket fitting (nickel plated brass pocket)

- by the 1/2"BSPP (parallel) pocket fitting (stainless steel pocket)

Electrical connections: On screw terminals. (It is possible to connect 2 wires 1.5mm² on each terminal).

Contact: SPNC (open on temperature rise). One terminal is available for neutral connection. SPDT contact available on request but it is not compatible with neutral terminal and pilot light.

Electrical rating: 16A(2.6) 250VAC

-Electrical life >100.000 cycles.

Main references with nickel plated brass pocket*

Temperature ranges (°C)	Temperature ranges (°F)	References in °C with rod length L=90 mm**	References in °C with rod length L=230 mm**	References in °C with rod length L=300 mm**	Differential	Max temperature on rod
-35+35°C	-30+95°F		Y0C8GD-35035N23J	Y0C8GD-35035N30J	3±2°C (5.5±4°F)	55°C (130°F)
4-40°C	40-105°F		Y0C8GD004040N23J	Y0C8GD004040N30J	3±2°C (5.5±4°F)	60°C (140°F)
30-90°C	85-195°F	Y0C8GD030090N09J	Y0C8GD030090N23J	Y0C8GD030090N30J	4±3°C (7±5.5°F)	120°C (250°F)
30-110°C	90-230°F	Y0C8GD030110N09J	Y0C8GD030110N23J	Y0C8GD030110N30J	5±3 (9±7°F)	150°C (300°F)

Main references with AISI 304 pocket*

Temperature ranges (°C)	Temperature ranges (°F)	References in °C with rod length L=90 mm**	References in °C with rod length L=230 mm**	References in °C with rod length L=300 mm**	Differential	Max temperature on rod
-35+35°C	-30+95°F		Y0C8GD-35035I23J	Y0C8GD-35035I30J	3±2°C (5.5±4°F)	55°C (130°F)
4-40°C	40-105°F		Y0C8GD004040I23J	Y0C8GD004040I30J	3±2°C (5.5±4°F)	60°C (140°F)
30-90°C	85-195°F	Y0C8GD030090I09J	Y0C8GD030090I23J	Y0C8GD030090I30J	4±3°C (7±5.5°F)	120°C (250°F)
30-110°C	90-230°F	Y0C8GD030110I09J	Y0C8GD030110I23J	Y0C8GD030110I30J	5±3 (9±7°F)	150°C (300°F)

Other temperature range, consult us

*3 cable glands version: replace C8G by C8H in the reference

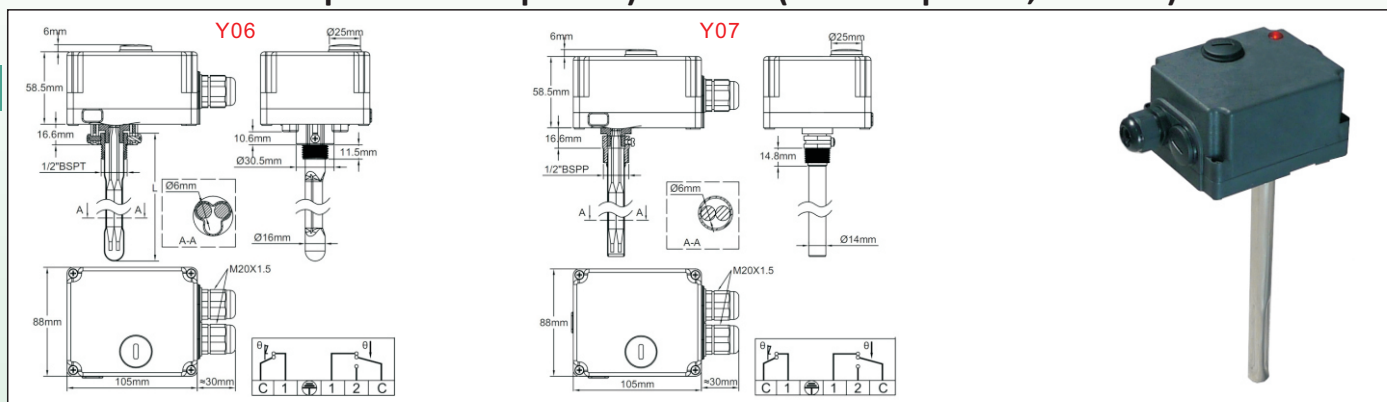
**Versions with °F printed knobs: replace the last character J by K in the reference

Knobs printing

°C Printing				°F Printing			
-35+35°C	4-40°C	30-90°C	30-110°C	-35+35°C	4-40°C	30-90°C	30-110°C

2015 New products

Combination of adjustable set point thermostat and manual reset high limit,
IP54 commercial housing, type **Y06** (With ½" BSPT
nickel plated brass pocket) and **Y07** (AISI 304 pocket, ½" BSPP)



Main applications:

Temperature control and safety on storage water heaters, solar heating tanks, boilers

Housing: IP54, 105 x 88 x 58.5 mm, (Cap, accessories and cable gland not included), black PC-ABS, UL94V0. High impact and UV resistance.

Product including an adjustable temperature control thermostat and a fixed setting high limit manual reset thermostat. Manual reset has access from outside, by removing a cap.

Electrical input: two M20 cable glands.

Temperature Adjustment: Inside, with °C printed knob. (°F printed knobs available in option)

Sensing element: Liquid filled bulb, located inside a backside mounted nickel plated brass pocket.

Adjustment ranges: 0-60°C (32-140°F); 30-90°C (85-195°F); 30-110°C (90-230°F)

Pocket length (L): 205mm (standard), 170, 300, 450 and 600mm on request

Electrical connections: screw terminals

Mounting:

-**Y06:** by the ½" BSPT (taped) brass pocket fitting

-**Y07:** by the ½" BSPP (parallel) brass pocket fitting

Control thermostat contact: SPDT

-Open on temperature rise contact (C-1) 16A(2.6) 250VAC

-Close on temperature rise contact (C-2) 6A(0.6) 250VAC

-Electrical life >100.000 cycles.

Manual reset thermostat contact: **Failsafe**, open by temperature rise; 16A (2,6) 250V alt.

Options:

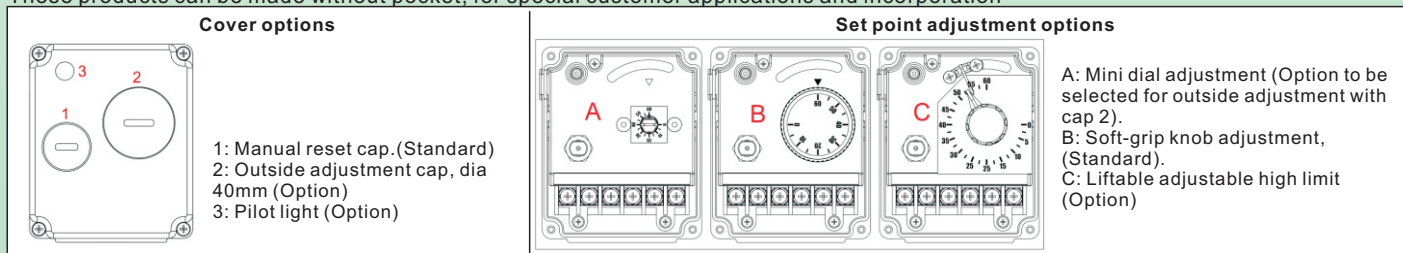
-Power supply "energized" pilot light (Neutral is mandatory, and thermostat contact is open on rise only, not SPDT). Other pilot light wirings are possible on request.

-Liftable adjustable high end adjustment on control thermostat.

-Outside access to the control thermostat adjustment (By removing a 40mm dia. cap)

-Thermal cut out incorporated inside the pocket.

-These products can be made without pocket, for special customer applications and incorporation



Main references (with 205mm pocket)

Temperature ranges °C (°F)	Manual reset calibration °C (°F)	Cap access manual reset	Cap access manual reset, liftable adjustable high stop	Cap access manual reset, liftable adjustable high stop, power supply "on" pilot (230V)	Differential °C (°F)	Max temperature on rod °C (°F)
0-60°C (32-140°F)	80°C (176°F)	Y06MS00060A20080	Y06ME00060A20080	Y06NE00060C20080	4±3 (7±5.5°F)	90 (195°F)
30-90°C (85-195°F)	110°C (230°F)	Y06MS30090A20110	Y06ME30090A20110	Y06NE30090C20110	4±3 (7±5.5°F)	120 (250°F)
30-110°C (90-230°F)	130°C (266°F)	Y06MS30110A20130	Y06ME30110A20130	Y06NE30110C20130	5±3 (9±7°F)	150 (300°F)

Aisi 304 pocket: replace Y06 by Y07. Versions with °F printed knobs: replace S by T or E by G in the reference

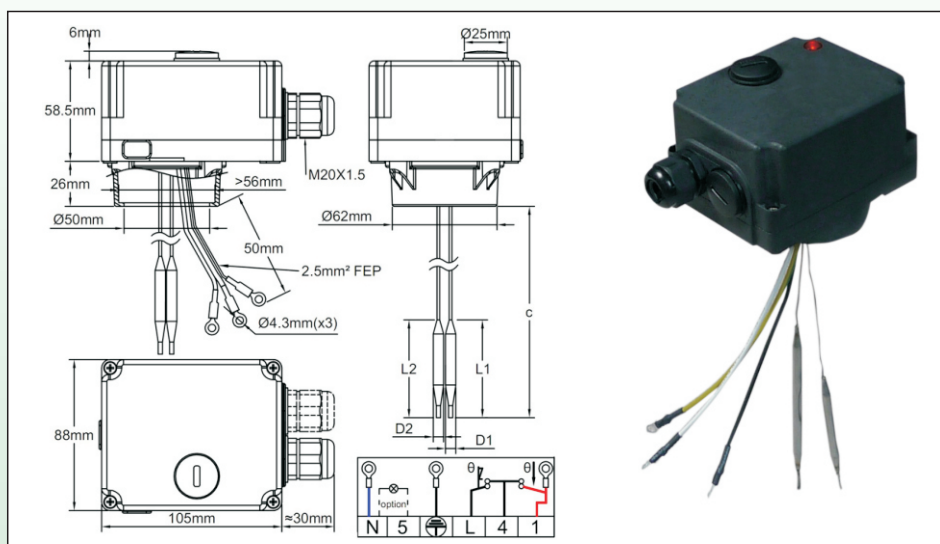
Knobs and dials printing

Type	°C Printing			°F Printing		
	0-60°C	30-90°C	30-110°C	32-140°F	85-195°F	90-230°F
Standard softgrip knob						
Miniature knob dial for outside adjustment						
Adjustable stop big dial						

2015 New products

Combination of adjustable set point thermostat and manual reset high limit, IP54 commercial housing, type Y08

With immersion heater mounting bracket



Main applications:

Control sub-assembly designed to be fitted directly on standard immersion heaters. Power up to 3500W, 230V, single phase.

Housing: IP54, 105 x 88 x 84.5 mm, (Cap, accessories and cable gland not included), black PC-ABS, UL94V0. High impact and UV resistance.

Product including an adjustable temperature control thermostat and a fixed setting high limit manual reset thermostat. Manual reset has access from outside, by removing a cap.

Electrical input: one M20 cable glands.

Temperature Adjustment: Inside, with °C printed knob. (°F printed knobs available in option)

Sensing elements: Liquid filled bulbs, dia. 6mm, with output on backside, for mounting inside immersion heater pockets

Adjustment ranges: 0-60°C (32-140°F); 30-90°C (85-195°F); 30-110°C (90-230°F)

Sensing elements output length (C): 500mm (standard), other lengths from 150mm to 800mm available on request

Electrical connections:

-Power supply (Neutral, Line, Ground), on 6mm² screw terminals.

-Immersion heater: 3 wires, FEP 180°C insulated, 2.5mm², equipped with ring terminals, length 50mm on the immersion heater connection side, for direct connection on heating elements M4 terminals. (Neutral wire is blue color)

-Pilot light (Option): can be connected by a strap on power supply, or on control thermostat output, or on safety thermostat output.

Mounting: by the backside extension, on the 50mm diameter hole, that can be used for immersion heaters with 1 1/2 thread or M45 thread, mounted by nut or by dia 56mm rotation ring (see fittings and accessories for immersion heaters in catalogue 2)

Control thermostat contact: Open on temperature rise contact (C-1) 16A(2.6) 250VAC

-Electrical life >100.000 cycles.

Manual reset thermostat contact: Fail safe, open by temperature rise; 16A (2,6) 250V alt.

Control thermostat and manual reset thermostat contacts are in serial on the Line supply of immersion heater.

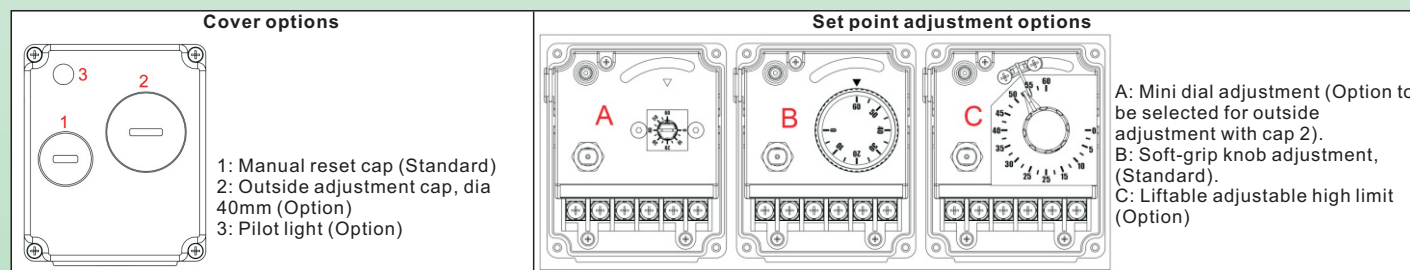
Options:

- Pilot light (230V)

- Lifiable adjustable high end adjustment on control thermostat.

- Outside access to the control thermostat adjustment (By removing a 40mm dia. cap)

- Thermal cut out for incorporation inside immersion heater pocket.



Main references (with C= 300mm)

Temperature ranges °C (°F)	Manual reset calibration °C (°F)	Cap access manual manual reset	Cap access manual recess, lifiable adjustable high stop	Cap access manual recess, lifiable adjustable high stop, power supply "on" pilot (230V)	Differential °C (°F)	Max temperature on bulbs °C (°F)
0-60°C (32-140°F)	80°C (176°F)	Y08MS00060A20080	Y08ME00060A20080	Y08NE00060C20080	4±3 (7±5.5°F)	90 (195°F)
30-90°C (85-195°F)	110°C (230°F)	Y08MS30090A20110	Y08ME30090A20110	Y08NE30090C20110	4±3 (7±5.5°F)	120 (250°F)
30-110°C (90-230°F)	130°C (266°F)	Y08MS30110A20130	Y08ME30110A20130	Y08NE30110C20130	5±3 (9±7°F)	150 (300°F)

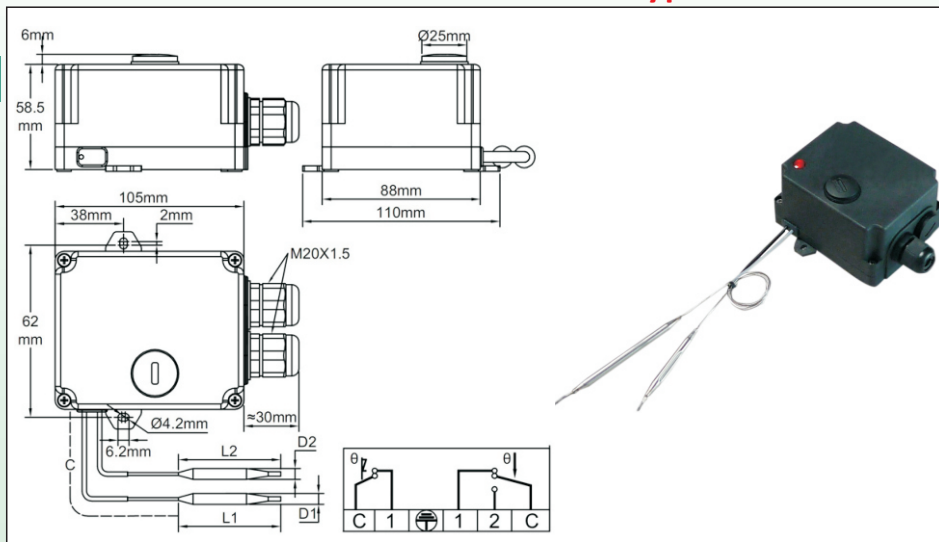
Other temperature ranges on request

Versions with °F printed knobs: replace S by T or E by G in the reference

Knobs and dials printing

Type	°C Printing			°F Printing		
	0-60°C	30-90°C	30-110°C	32-140°F	85-195°F	90-230°F
Standard softgrip knob						
Miniature knob dial for outside adjustment						
Adjustable stop big dial						

Combination of adjustable set point thermostat and manual reset high limit, IP54 commercial housing, capillary output, wall mounting, Type Y09



Main applications:

Control sub assembly designed to be used directly on standard immersion heaters, power up to 3500W, 230V, single phase.

Housing: IP54, 105 x 88 x 58.5 mm, (Cap, accessories and cable gland not included), black PC-ABS, UL94V0. High impact and UV resistance.

Product including an adjustable temperature control thermostat and a fixed setting high limit manual reset thermostat. Manual reset has access from outside, by removing a cap.

Electrical input: Two M20 cable glands.

Temperature Adjustment: Inside, with °C printed knob. (°F printed knobs available in option)

Sensing elements: Liquid filled bulbs, dia. 6mm, with output on side of housing, for distance measurement.

Adjustment ranges: 0-60°C (32-140°F) ; 30-90°C (85-195°F) ; 30-110°C (90-230°F)

Capillaries length (C): 900 mm

Electrical connections: screw terminals

Mounting: With 2 wall mounting tabs, for M4 screws, 62 mm distance

Control thermostat contact: SPDT

-Open on temperature rise contact (C-1) 16A(2.6) 250VAC

-Close on temperature rise contact (C-2) 6A(0.6) 250VAC

-Electrical life >100.000 cycles.

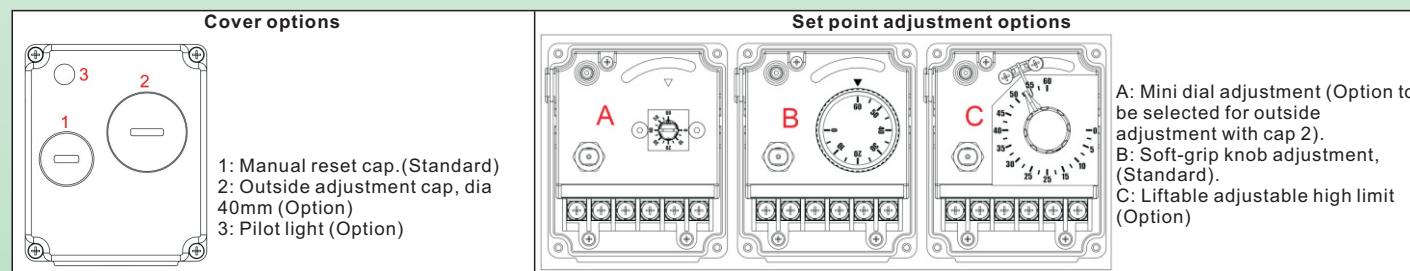
Manual reset thermostat contact: Fail safe, open by temperature rise; 16A (2,6) 250V alt.

Options:

-Power supply "energized" pilot light (Neutral is mandatory, and thermostat contact is open on rise only, not SPDT) Other pilot light wirings are possible on request.

-Liftable adjustable high end adjustment on control thermostat.

- Outside access to the control thermostat adjustment (By removing a 40mm dia cap)



Main references

Temperature ranges °C (°F)	Manual reset calibration °C (°F)	Cap access manual reset	Cap access manual reset, liftable adjustable high stop	Cap access manual reset, liftable adjustable high stop, pilot light (230V)	Differential °C (°F)	Max temperature on bulbs °C (°F)
0-60°C (32-140°F)	80°C (176°F)	Y09MS00060A09080	Y09ME00060A09080	Y09NE00060C09080	4±3 (7±5.5°F)	90 (195°F)
30-90°C (85-195°F)	110°C (230°F)	Y09MS30090A09110	Y09ME30090A09110	Y09NE30090C09110	4±3 (7±5.5°F)	120 (250°F)
30-110°C (90-230°F)	130°C (266°F)	Y09MS30110A09130	Y09ME30110A09130	Y09NE30110C09130	5±3 (9±7°F)	150 (300°F)

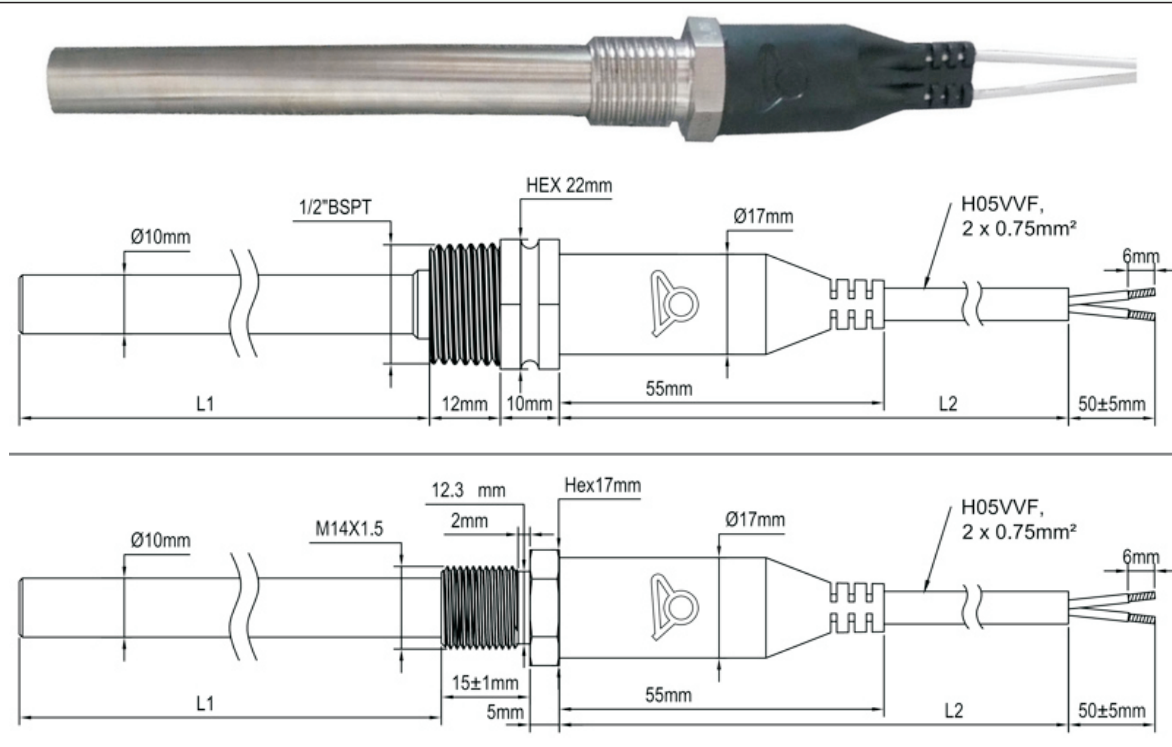
Autres plages de température sur demande
Other temperature ranges on request

Knobs and dials printing

Type	°C Printing			°F Printing		
	0-60°C	30-90°C	30-110°C	32-140°F	85-195°F	90-230°F
Standard softgrip knob						
Miniature knob dial for outside adjustment						
Adjustable stop big dial						

2015 New products

**Dia. 10 mm cartridge thermostat with 1/2" or M14x1.5 fitting, calibration from 50 to 120°C
Type 72**



Applications

Detection of a temperature value in liquids, water, hydraulic oils, thermal oils. Two versions of electrical contacts: Gold-plated for low power circuit, like PLC or 2A 250V for relay coils or resistive circuits.

Main features

Probe material: 304 stainless steel sheath diameter 10mm, with AISI 304 fitting.

Calibration temperature: 50 to 120°C (100 pcs MOQ applicable for specific values).

Tolerance on the opening temperature: ± 5°C

Fittings: 1/2" BSPT (tapered) or M14x150 with gasket seat.

Immersed length (L1): Standard 90mm and 170mm (50, 230, 300mm on request)

Protection: IP65, IK10.

Pressure resistance: 25 bar.

Part sensitive to temperature: Located at the end of the sheath, on 35mm.

Contact: open by temperature rise. (Close on temperature rise possible on creep action models)

Electrical rating:

- PLC temperature alarm version: silver plated gold contact, creep action, 8A resistive in 12V/24V DC 60,000 cycles, differential less than 2°C.

- Thermal safety version: snap action silver contact, 2A, 250VAC, 100,000 cycles, differential higher than 10°C.

Cable outlet: 17x55mm PA66 overmolding.

Connection: H05VV F, 2 x 0.75 mm² cable, standard length 1m. (Connectors on cable end possible on request)

Main references with 1 meter cable (L2)

References with M14x1.5 thread	References with 1/2"BSPT thread	References with M14x1.5 thread	References with 1/2"BSPT thread	Open temperature	Rating
72C14050E090H101	72C12050E090H101	72C14050E170H101	72C12050E170H101	50°C (122°F)	8A 12-24VDC
72C14070E090H101	72C12070E090H101	72C14070E170H101	72C12070E170H101	70°C (158°F)	8A 12-24VDC
72C14090E090H101	72C12090E090H101	72C14090E170H101	72C12090E170H101	90°C (194°F)	8A 12-24VDC
72C14110E090H101	72C12110E090H101	72C14110E170H101	72C12110E170H101	110°C (230°F)	8A 12-24VDC
72C14120E090H101	72C12120E090H101	72C14120E170H101	72C12120E170H101	120°C (248°F)	8A 12-24VDC
72J14050E090H101	72J12050E090H101	72J14050E170H101	72J12050E170H101	50°C (122°F)	2A 250VAC
72J14070E090H101	72J12070E090H101	72J14070E170H101	72J12070E170H101	70°C (158°F)	2A 250VAC
72J14090E090H101	72J12090E090H101	72J14090E170H101	72J12090E170H101	90°C (194°F)	2A 250VAC
72J14110E090H101	72J12110E090H101	72J14110E170H101	72J12110E170H101	110°C (230°F)	2A 250VAC
72J14120E090H101	72J12120E090H101	72J14120E170H101	72J12120E170H101	120°C (248°F)	2A 250VAC

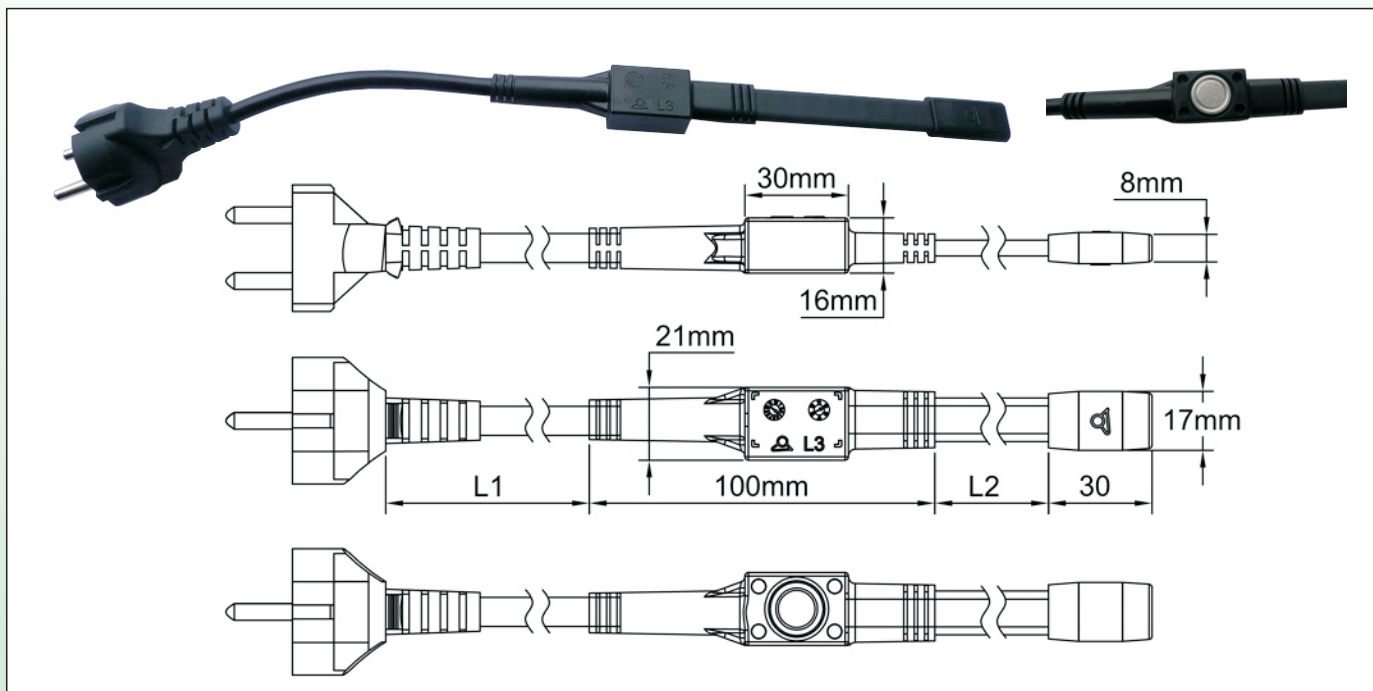
Autres longueurs de canne: remplacer E090 ou E170 par E suivi la longueur de canne en mm (Minimum de commande applicable).
Other cable lengths, replace H10 by H followed by cable length in dm (MOQ apply)..



2015 New products

Thermostats overmolded on heat tracing cables

Type 49C



Applications

Overmolding a disc thermostat on a heating cable allows to switch it on when the room temperature falls below a certain threshold, and to switch it off when the temperature rises.

Overmolding improves the mechanical strength of the assembly and provides a good ingress protection to water.

Thanks to the special process developed in our laboratories, Polyamide 66 injection molding does not overheat the disc of the thermostat, avoiding in this way the set point temperature drift that this operation usually brings.

Main features

Thermostat housing: Black PA66, 21x16x 30mm, IP65. Good UV resistance. Excellent cables pull strength at both ends (total length 100mm)

Part sensitive to temperature: Stainless steel cup, not over molded to improve temperature measurement.

Contact: Open by temperature rise.

Electrical rating:

- 16A Resistive, 250V, 100,000 cycles, with differential 6 ° C.

- 8A resistive, 250V, 100,000 cycles, with differential 5 ° C.

Calibration temperatures: Available on request (minimum of start of production 1000 pieces applicable for specific values).

Heating cable end sealing: With a 17x30x8mm PA66 over-molding.

Power supply connection: With H05VVF cord with CEE 7/7, 2 poles + earth molded plug, or with cable (3x 1.5mm², 3x1mm², 3x0.75mm²). Cable type, plug type, cable gauge and length according to customer specification. Over-molding is possible without ground conductor (2 poles plug type CEE 7/16 or 7/17)

Connecting heating cable side: This device is over-molded on heating cable supplied by the customer only. The molding tools are then adapted to the dimensions of cables. Minimum order 1000 pcs per cable section (mixed lengths accepted).

Product identification: Reference label on the cord and coded date on the thermostat molding

Fixation: It is possible to fix the thermostat body on a tube with plastic tie

Important note: self-regulating heating cables used in heat tracing develop a significant over current peak in cold conditions (Value depends on the manufacturer). This must be taken into account for the selection of the thermostat breaking capacity.

Main references with 16A, CEE7/7 plug.

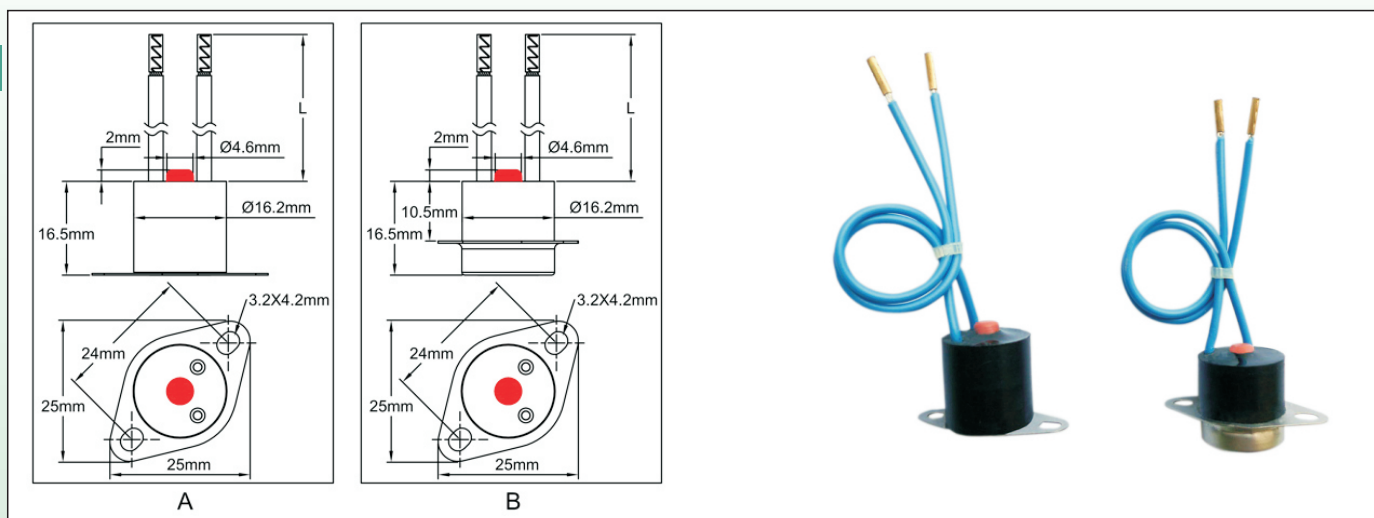
References (°C)	Open temperature	Close temperature	Cable type	Cord length (L1)	250V Electrical rating (100.000cycles)	250V Electrical rating (10.000 cycles)
49C0310043XYY10P	10±3°C	4±3°C	3x1.5mm ²	1m	10A	16A
49C0310043XYY15P	10±3°C	4±3°C	3x1.5mm ²	1.5m	10A	16A
49C0310043XYY20P	10±3°C	4±3°C	3x1.5mm ²	2m	10A	16A
49C0310043XYY50P	10±3°C	4±3°C	3x1.5mm ²	5m	10A	16A
49C9308031XYY10P	8±3°C	3±2.5°C	3x1mm ²	1m	8A	10A
49C9308031XYY15P	8±3°C	3±2.5°C	3x1mm ²	1.5m	8A	10A
49C9308031XYY20P	8±3°C	3±2.5°C	3x1mm ²	2m	8A	10A
49C9308031XYY50P	8±3°C	3±2.5°C	3x1mm ²	5m	8A	10A

X= codification of the cable supplied by customer, YY= heat tracing cable length (L2)

2015 New products

Waterproof manual reset disc thermostats

Type 4REMR



Applications

Manual reset safety thermostats, for applications where there are risks of condensation or water drops. The thermostat body, including the cup crimping zone, is inside an epoxy potting. The manual reset button is accessible by a small silicone cap partially embedded in the epoxy resin. The 2 wires output, in addition to protection against ingress of water, also protects users against accidental contact with live terminals.

Main features

Thermostat Housing: High temperature black epoxy, diameter 16.2 mm. Good UV resistance. Excellent wire pull strength. Maximum ambient temperature 120 °C.

Temperature sensing cup: Stainless steel, not over-molded to improve temperature measurement. (Achievable in aluminum on request)

Contact: SPNC, open on temperature rise.

Reset: Manual

Electrical rating: 6A resistive, 250VAC, 1000 cycles.

Wires: XLPE insulated, 300V, AWG16 (1.5mm²), stranded, temperature resistance 125°C, according to UL3266.

Wire terminations: Stripped on 6mm (wire end terminals or other terminals on request)

Calibration temperatures: Available on request from 40 to 120°C. Standard tolerances +/- 5 ° C. MOQ 1000 pieces applicable for specific values.

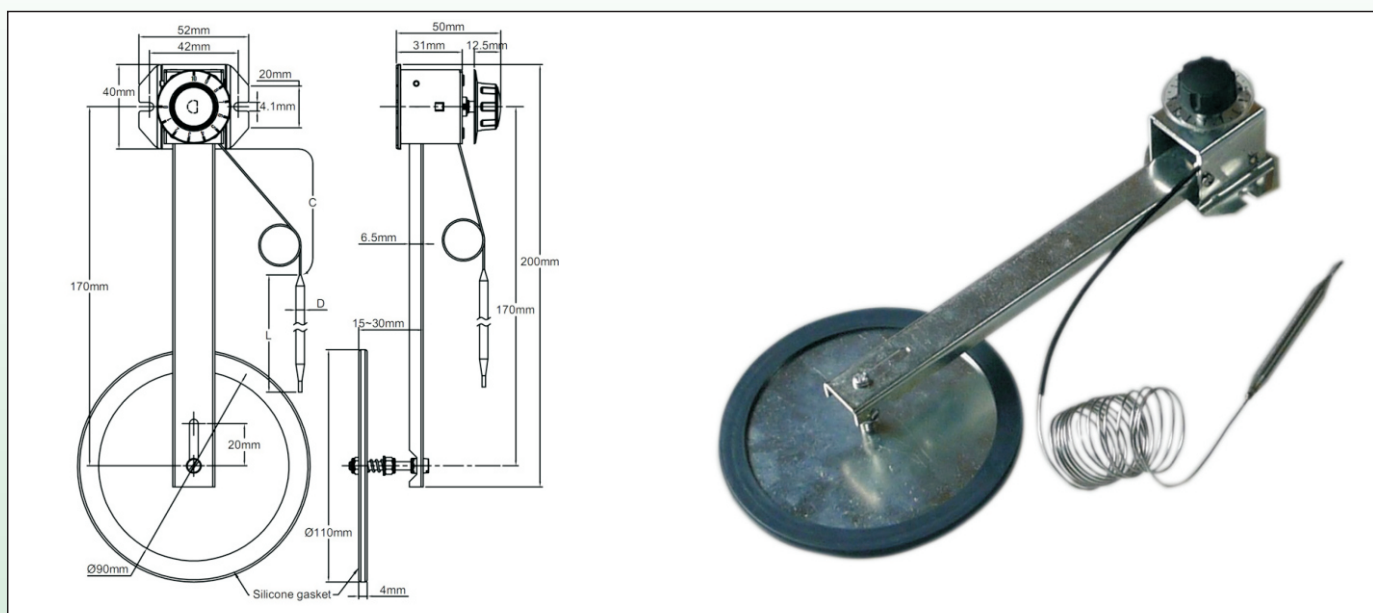
Product identification: Reference label on the wires and coded date on the thermostat cup

Mounting: Two modes: flat bracket (type A) for measuring surface temperature, or extended cup bracket (type B) for through wall measurement .

Main references with 1 meter wires, T125°C XLPE, AWG16 (1.5mm²).

References	Open	Tolerance	Bracket style	Bracket material
4REMRR055DBSY100	55°C/131°F	±3°C/±5.4°F	B	Stainless steel
4REMRR065DBSY100	65°C/149°F	±4°C/±7.2°F	B	Stainless steel
4REMRR075DBSY100	75°C/167°F	±4°C/±7.2°F	B	Stainless steel
4REMRR085DBSY100	85°C/185°F	±4°C/±7.2°F	B	Stainless steel
4REMRR090DBSY100	90°C/194°F	±4°C/±7.2°F	B	Stainless steel
4REMRR120DBSY100	120°C/248°F	±4°C/±7.2°F	B	Stainless steel
4REMRR055DASY100	55°C/131°F	±3°C/±5.4°F	A	Stainless steel
4REMRR065DASY100	65°C/149°F	±4°C/±7.2°F	A	Stainless steel
4REMRR075DASY100	75°C/167°F	±4°C/±7.2°F	A	Stainless steel
4REMRR085DASY100	85°C/185°F	±4°C/±7.2°F	A	Stainless steel
4REMRR090DASY100	90°C/194°F	±4°C/±7.2°F	A	Stainless steel
4REMRR120DASY100	120°C/248°F	±4°C/±7.2°F	A	Stainless steel

2015 New products **Wood and solid fuel stove damper bulb and capillary thermostat** **Type WQD**



Applications

This thermostat is an automatic control of wood, pellets, coal or anthracite fired solid fuel appliances like room heaters, boilers, stoves, central heating units. Its modulating action provides economy in fuel consumption.

Main features

Operation principle: It controls the combustion by throttling the primary air intake to the fire. A flat damper plate at the end of the control arm is moved relative to the air intake port of the appliance in response to variations of temperature at the bulb. It is actuated by the expansion of liquid in the bulb, through capillary tubing to a diaphragm located in the body.

Body: Zinc plated steel

Shaft: Dia. 6mm, with 4.8mm flat, with 270° angular rotation.

Fixing: By means of the backside bracket, for dia 4mm screws, distance 42 to 48mm (Front mounting by 2 screws M4, 28mm distance available on request)

Temperature Ranges:

-Room Air Control 4/40°C (40/105°F). Damper displacement between 4 and 40°C (40/105°F), with a 170mm length arm: 12.5mm

-Hot water 30/90°C (85/195°F). Damper displacement between 30 and 90°C (85/195°F), with a 170mm length arm: 9.5mm

-Flue temperature 50/300°C (120/570°F). Damper displacement between 50 and 300°C (120/570°F), with a 170mm length arm: 9.5mm

Other temperature ranges and displacement available on request (MOQ apply)

Damper plates

Damper plates are available in circular form in dia. 80mm and dia. 120mm. (Rectangular forms on request). They are spring mounted to permit self-alignment of the plate in the closed position.

Damper plate position can be adjusted from 150 to 170mm on the arm.

Damper plates are fitted with a temperature resistant silicone gasket. Special arm length and damper plates may be made on request to suit application (MOQ apply).

Sensor dimensions:

Bulb and capillary are made stainless steel.

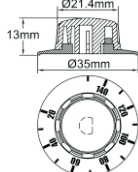







Bulb standard dia. 3, 6 or 8mm. (Depends of temperature ranges)

Standard capillary length 300 mm or 1500 mm

Main references with 170mm arm

Damper disc diameter	Capillary length	Temperature ranges (°C)			
		4-40 (bulb dia. 6mm)	4-40 (bulb dia. 8mm)	30-90 (bulb dia. 6mm)	50-300 (bulb dia 3 mm)
80 mm	300 mm	WQD0440AC60080G0	WQD0440AC80080G0	WQD3090AC60080G0	WQD50C0AC30080G0
80 mm	1500 mm	WQD0440AO60080G0	WQD0440AO80080G0	WQD3090AO60080G0	WQD50C0AO30080G0
120 mm	300 mm	WQD0440AC600C0G0	WQD0440AC800C0G0	WQD3090AC600C0G0	WQD50C0AC300C0G0
120 mm	1500 mm	WQD0440AO600C0G0	WQD0440AO800C0G0	WQD3090AO600C0G0	WQD50C0AO300C0G0

Printed knobs

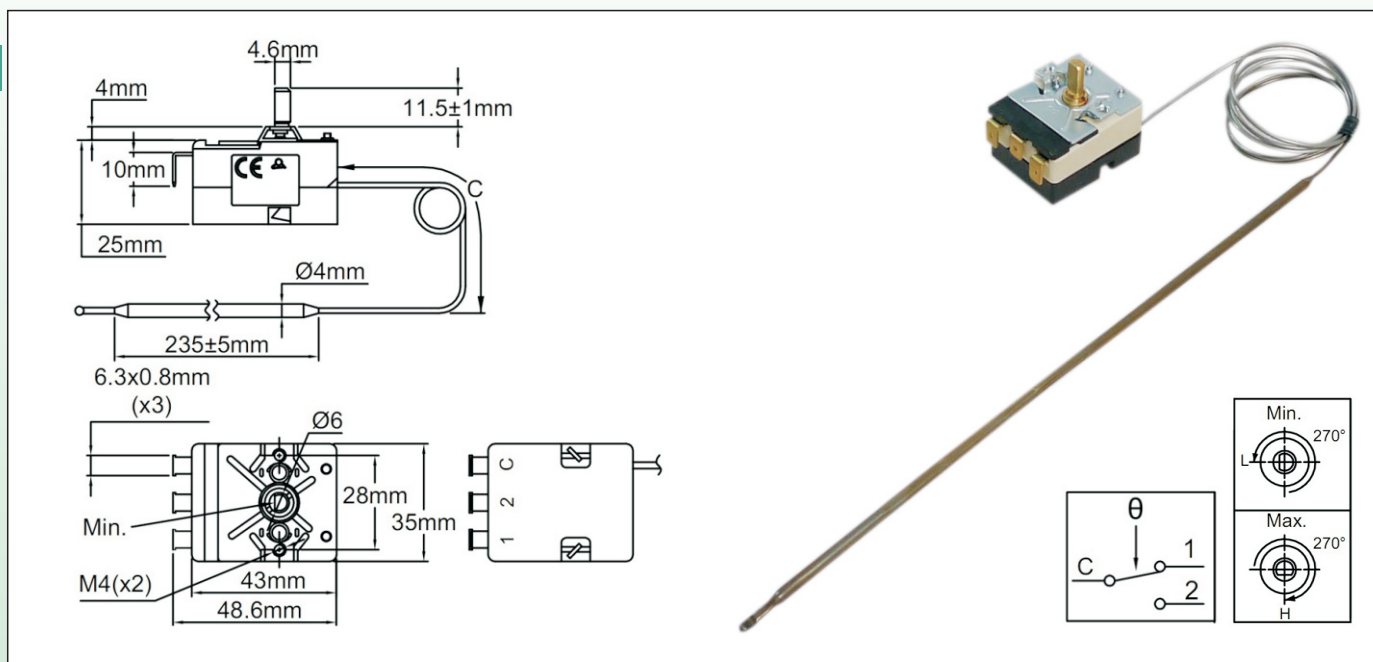
	4-40°C	30-90°C	50-300°C
	 66MM0060040402FB	 66MM0060300901FB	 66MM0060503001FB
0-10	40-104°F	5-195 °F	120-570°F
 66MM006000102FB	 66MM0060040402FY	 66MM0060300901FY	 66MM0060503001FY

Many other printed knobs available, see our catalogue #1

2015 New products

Bulb and capillary thermostat, temperature range 60-500°C

Type 8GB06500



Applications

Thermostats for furnaces and ovens which the operating temperature is higher than 320°C, such that the pizza ovens. Their temperature resistance is outstanding.

Main features

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

Bulb and capillary: Stainless steel. Capillary minimum bending radius 5 mm.

Temperature sensing element: liquid metalloid filled.

Terminals: 6.35 x 0.8 quick connect terminals. M4 screws also available on request.

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

Contact: SPDT

Electrical rating:

- Open on temperature rise contact (C-1) 16A(2.6) 250VAC

- Close on temperature rise contact (C-2) 6A(0.6) 250VAC

Electrical life: >100.000 cycles.

Main references

Reference	Temperature range	Capillary length (C, mm)	Bulb diameter (mm)	Bulb length (mm)	Differential	Max temperature on bulb
8GB060500AN40000	60-500°C (140+930°F)	1400	4	235	12±6°C (21±10 °F)	550°C (1000°F)
8GB060500AG40000	60-500°C (140+930°F)	750	4	235	12±6°C (21±10 °F)	550°C (1000°F)
8GB060500AE40000	60-500°C (140+930°F)	500	4	235	12±6°C (21±10 °F)	550°C (1000°F)

Other temperature ranges available on request.

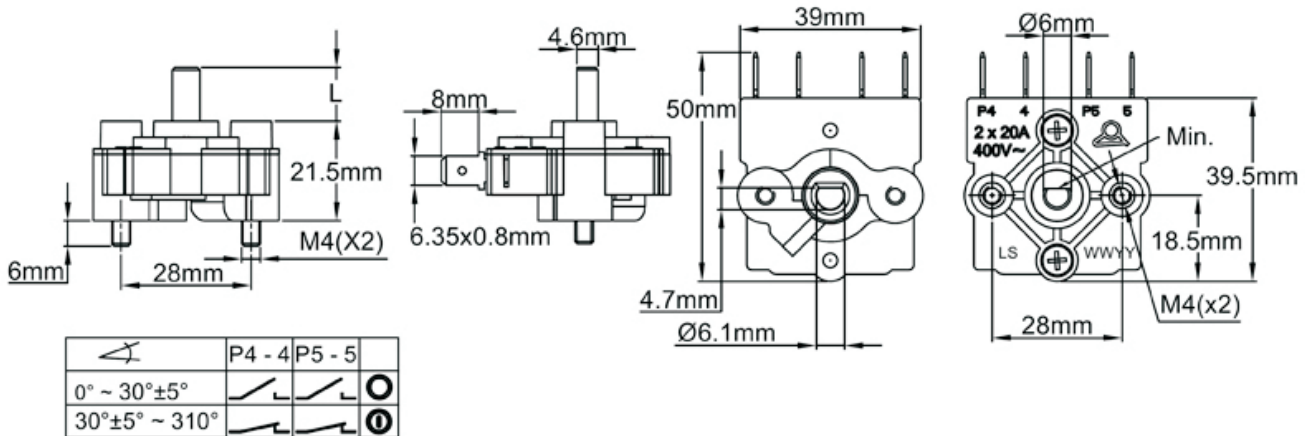
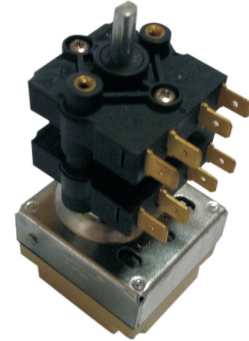
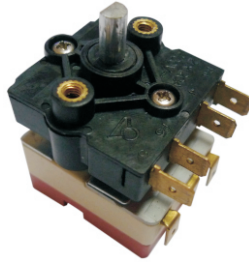
Printed knobs and accessories

Knob printings		Knob sizes	Bezels		
60-500°C	140-930°F	PC + Santoprene	Black ABS	Chrome plated ABS	Stainless steel
66MZ0060605001FW	66MZ0060605001FX	66MZ0060*****	66EN1	66EN3	66EN2

Because of permanent improvement of our products, drawings, descriptions, features used on these data sheets are for guidance only and can be modified without prior advice

2015 New products

Additional thermostat shaft rotary switch, 20A 250-400V Type LS



Applications

These on-off switches are designed to be added on thermostat shafts. They provide off position when the thermostat shaft is at the minimum position. They are available in single pole contact, two poles (one level) and three poles or four poles contact (two levels).

Main features

Installation: on thermostats with 6mm shaft and 4.6mm flat, mounting by two M4 screws 28mm distance. Shaft length of thermostat that receives this switch must be 12mm maximum.

Shaft lengths available: 11.5; 15; 23mm

Shafts: Galvanized steel

Operation diagram: the contacts are open between 0° and 30 + / - 5° angular and closed between this value and 310°.

Electrical rating: 20A 250/ 400V res. , 6000 cycles

Rotation: can be used on thermostats with 180 to 310° angular shaft rotation

Contact clearance: between 0 and 20 ° angle, the contact spacing is greater than 3mm.

Temperature: 85°C

Case Material: PA66, UL94 VO

Connection: 6.35x0.8 tabs. Screw terminals available (MOQ)

Options: change of flat position, different contact opening or closing positions

Main references with shaft length L=11.5mm

Level quantities	Switch quantities	References
1	1	LS12190259025160
1	2	LS12290259025160
2	3	LS12390259025160
2	4	LS12390259025160

*Screw terminals option: replace 60 by V0 on the last 2 numbers in the product reference

2015 New products

Elevated terminal connection blocks

Types BE2, BE3, BE5, BE6

Applications

In electrothermal connection applications, especially in immersion heaters connection boxes appear specific constraints: high ambient temperature, frequent thermal cycles, and confined space around the ends of the heating elements and their terminals, making difficult to the user to make connections.

These terminals have been developed to address these constraints.

Main features, identical for all types

Body: Glass-filled Polyamide 66, UL94V, GWFI 960°C, ambient temperature up to 150°C.


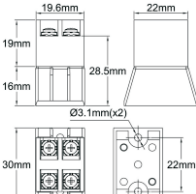

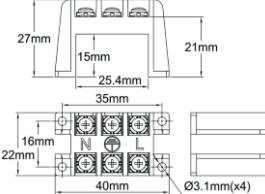

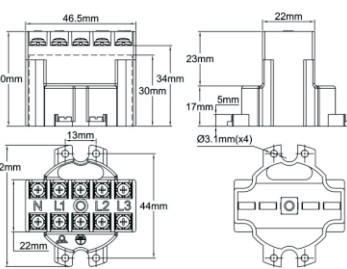

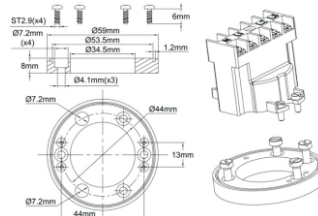

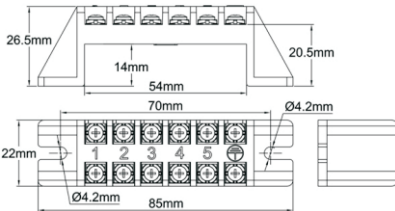
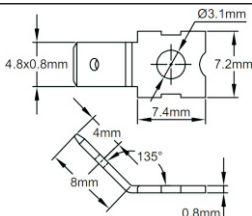
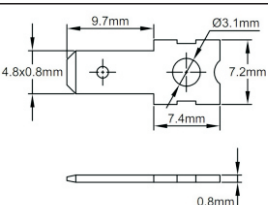
Terminals: M3 screw terminals with captive elastic notched washer, resistant to loosening from vibration or thermal cycling. These terminals can receive bare wire, or tinned, or equipped with cable shoes, fork terminals or eyelet terminals. M3 screw and the spring washer may be replaced by a 4.8x0.8 tab.

Voltage: 400V max.

Wire gauge: Each terminal accepts on each side two conductor from 0.5mm² to 2.5mm².

Maximum rating per terminal: 24 Amp. Corresponding to 17°C self-heating in free air of the terminal. (Upon IEC60947-7)

Mounting: M3 screws or ST3.5 self-tapping screws

		With less than 20mm wide, this 2 ways connection block is designed for tightest spaces. Reference BE2E000000HP000				
		This 3 ways elevated connection block can be positioned above the wires exit of cartridge heaters Reference BE3E3000000JP000				
		With its maximum size of 52mm diameter, this 5 ways terminal block is compatible with the connections of 1 1/2 "and M45 fittings. It fits inside the cylindrical housings of 52mm ID. An adapter enables its mounting on the fittings. (See hereunder) The central earthing terminal allows direct connection to the brass fittings with central earth thread Reference BE5E5000000KP000				
		Adaptator, is mounted under the connection block BE5E5000000KP000 with 4 self-tapping screws, and allows to mount the connection block on brass fittings with 3 screws M4 at 120° on a diameter of 44 mm Reference BE2E000000HP000				
		This 6 ways elevated terminal block can be positioned above tubular heaters terminals, and it fits inside 105x105mm square aluminum and stainless steel housing and also inside the 100mm diameter plastic housing Reference BE6E6000000MP000				
		4.8 x0.8 tabs, can be mounted on all terminals Reference <table><tr><td>4.8x0.8 angled 135°</td><td>4.8x0.8 flat</td></tr><tr><td>BET47508135NP</td><td>BET47508180NP</td></tr></table>	4.8x0.8 angled 135°	4.8x0.8 flat	BET47508135NP	BET47508180NP
4.8x0.8 angled 135°	4.8x0.8 flat					
BET47508135NP	BET47508180NP					

Because of permanent improvement of our products, drawings, descriptions, features used on these data sheets are for guidance only and can be modified without prior advice

2015 New products

Pa66 enclosures for immersion heaters

Types Y301UC2EA2, Y307E, Y308E

Applications

Immersion heaters connection


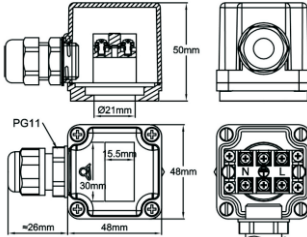

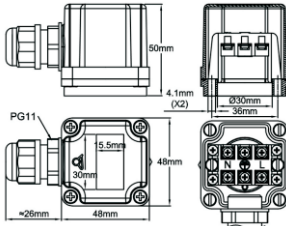

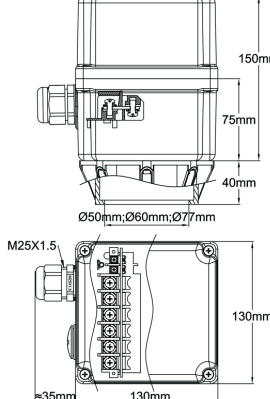

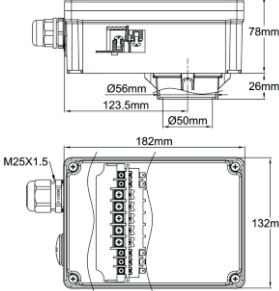

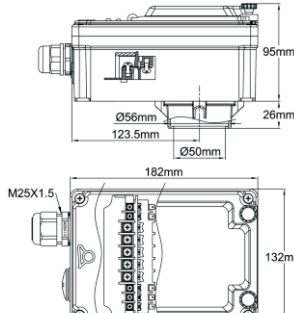
Main common features

Housing: IP54, black PA66, fiberglass reinforced, UL94V0. High impact and UV resistance. They have a silicone foam cover gasket.

Cable gland: PA66.

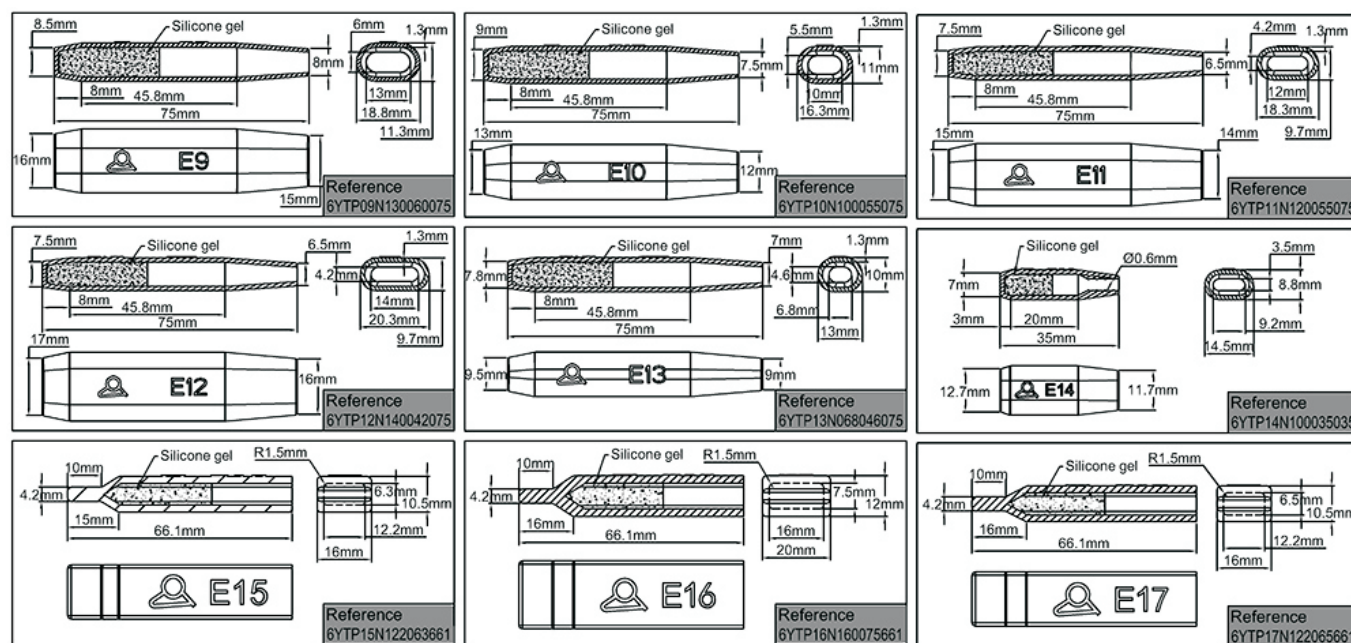
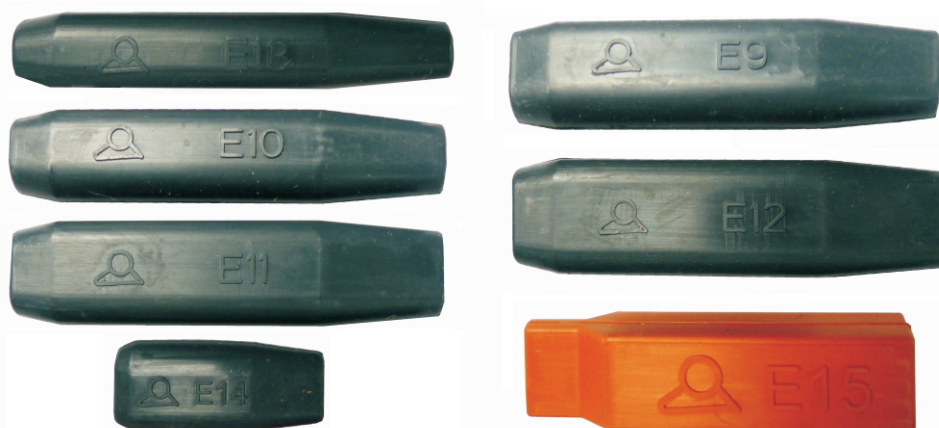
Immersion heaters fittings:

The connection boxes below are compatible with the range of immersion heaters fittings from 1" up to M77x2, described in our catalog No. 2, with double mounting thread, or single thread and internal plate. As with most existing fittings available on the market.

		<p>Designed for receiving cartridges heaters up to 16mm O.D., this miniature enclosure features a built-in 3x2.5mm² connection block and a PG11 cable gland mounted on a removable plate, these two features making easier the connection by the user.</p> <p>The mounting on cartridge heaters is made by screwing an internal nut on a ½" thread. It is also compatible with single tube cartridge heaters used in thermal fluid heaters with external 1" thread, and internal 1/2".</p> <p>Reference Y301UC2EA2C300GA</p>						
		<p>Designed to be mounted on immersion heaters with 1" thread by two M4 screws, 36 mm distance, this miniature enclosure features a built-in 3x2.5mm² connection block and a PG11 cable gland mounted on a removable plate, these two features making easier the connection by the user.</p> <p>Reference Y301UC2EA3C300GA</p>						
		<p>Designed for receiving instrumentation, this enclosure has an extension of 40mm for a thermal insulation bushing. It is made with dia. 50, 60 and 77 mm mounting holes for 1 1/2" 2" and up to M77x2 fittings. It includes slides for printed circuits, 4 holes for DIN rail or PCB mounting and is equipped with a 6 x 10mm² terminal for power connection and 2 x 2.5mm² for auxiliary. It can accommodate one or two power contactors (Rating up to 32amp AC3), a control thermostat, a temperature limiter, two 16mm diameter indicator lights and one on-off switch. One M25 cable gland and one M25 plug are mounted on a removable plate for easy access to terminal block.</p> <p>Main references</p> <table><tr><td>Drilling dia 50</td><td>BE5E5000000KP000</td></tr><tr><td>Drilling dia 60</td><td>Y307EN1EA6 CB00GA</td></tr><tr><td>Drilling dia 77</td><td>Y307EN1EA7 CB00GA</td></tr></table>	Drilling dia 50	BE5E5000000KP000	Drilling dia 60	Y307EN1EA6 CB00GA	Drilling dia 77	Y307EN1EA7 CB00GA
Drilling dia 50	BE5E5000000KP000							
Drilling dia 60	Y307EN1EA6 CB00GA							
Drilling dia 77	Y307EN1EA7 CB00GA							
		<p>Designed for receiving instrumentation, this enclosure has an extension of 26mm for a thermal insulation bushing. It can be mounted on immersion heaters by a 50mm dia. hole for 1"1/2 fittings or M45x2. It has also a 5 x 6 mm² terminal for power connection and 5 x 2.5mm² for auxiliary. One M20 cable gland and one M20 plug are mounted on a removable plate for easy access to terminal block.</p> <p>Reference Y308EN1EA5CA00GA</p>						
		<p>Designed for receiving instrumentation, this enclosure has an extension of 26mm for a thermal insulation bushing. It can be mounted on immersion heaters by a 50mm dia. hole for 1"1/2 fittings or M45x2. It has also a 5 x 6 mm² terminal for power connection and 5 x 2.5mm² for auxiliary. One M25 cable gland and one M25 plug are mounted on a removable plate for easy access to terminal block.</p> <p>It has a cover with transparent polycarbonate window for easy and sealable opening. It can receive all electronic control and mechanical thermostat controls of the Y8 series that can be found in our catalog No. 3</p> <p>Reference Y308EN1AA5CA00GA</p>						

2015 New products

Wire end silicone boots, silicone gel improved waterproofing, for heat tracing
Type Y6TP



Applications

The sealing of the free end of the heating cables, in particular constant power cables or self-regulating cables is simplified by these boots, which eliminates the use of RTV resins on field, which needs difficult cleaning along with long lifetime residue pollutants, or heat-shrinkable sleeves, which require a heating equipment and which perfect seal is not always guaranteed. These sleeves should simply to be pushed on the cable end. Then the silicone gel covers the entire cable and conductors located therein.

Main features

Boot material: UL 94-VO, black silicone (other colors on request). Temperature resistance 220 °C.

Filling material: silicone gel filling 50% of the internal volume of the boot. Insulation resistance $1.1 \times 10^{15} \Omega \cdot \text{cm}$ @500V. Temperature resistance -60 + 260 °C.

Needle penetration (1/10mm): 70

Boot dimensions: The elasticity of the silicone, higher than 200%, allows it to fit the exact shape of the cable. We recommend selecting a cap that is 10 to 20% smaller than the cable section. (Manufacture of special dimensions possible, MOQ 1000 pieces)

NB: As new references are added regularly, ask a current list if you intend to use these products.

Many other models of silicone boots for heat tracing can be found in our catalog No. 3

2015 New products

Thermostats and temperature sensors boots

Type 9BF

Applications

They are designed to protect thermostats or temperature sensors against accidental contact or liquids ingress. Depending on the model, they can be filled with resin or simply be glued or vulcanized on their support, flexible or not.

Main features





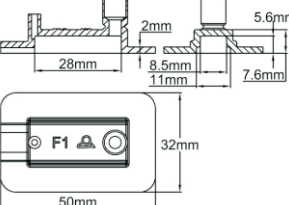
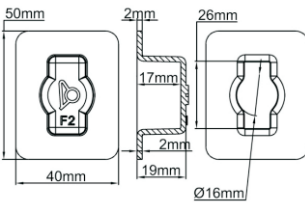
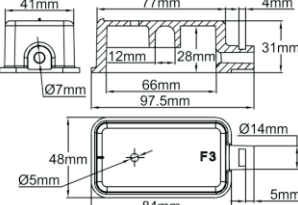
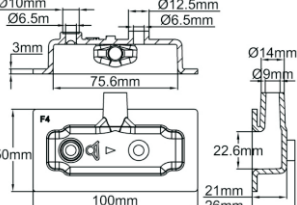



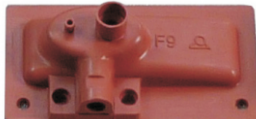
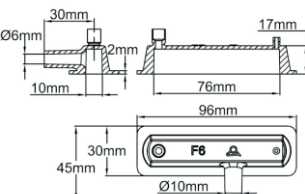
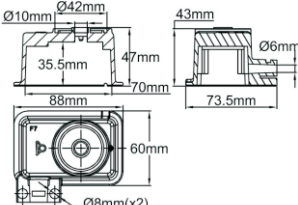
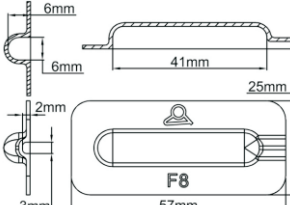
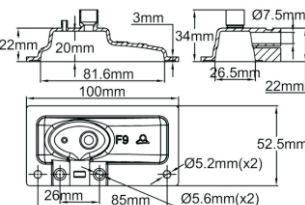
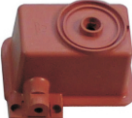



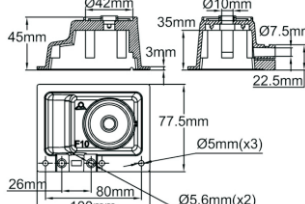
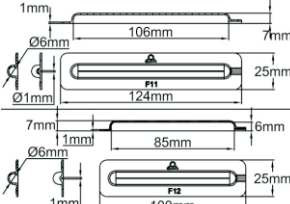
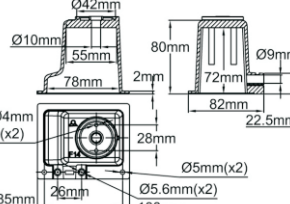
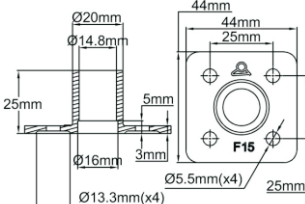
Flammability: UL 94-V0

Hardness: 60 Shore A

Color: black or orange depending on the model. Other colors available (MOQ apply)

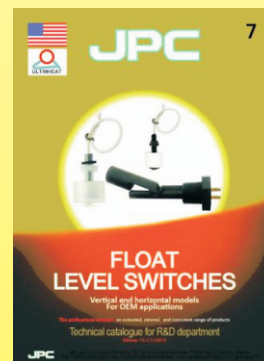
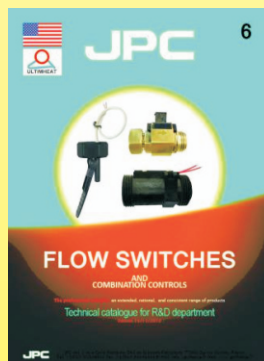
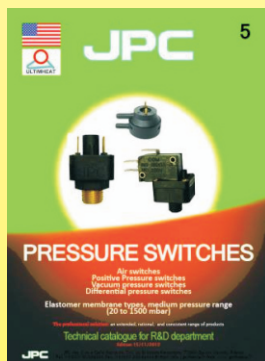
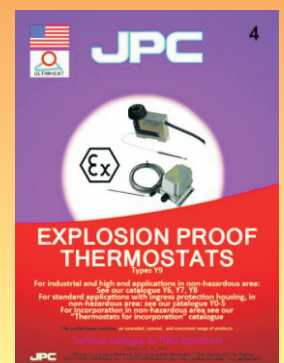
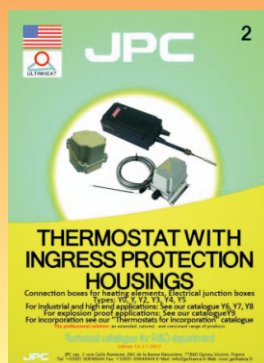
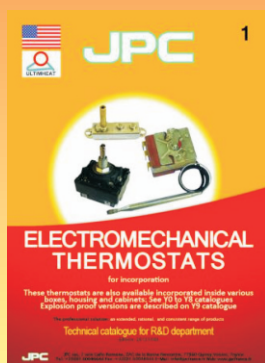
NB: As new references are added regularly, ask a current list if you intend to use these products.

Many other models of silicone boots for thermostats and temperature sensors can be found in our catalog No. 2

9BF01R000SPH016A (F1)	9BF02R000SPH008A (F2)	9BF03R084SPH020A (F3)	9BF04R100SPH006A (F4)
			
			
Silicone boot with resin filling orifice, for miniature limit thermostat, PT100 and NTC sensors	Silicone boot for 1/2" disc thermostat, with internal connection	Silicone boot for adjustable bimetal strip thermostat	Silicone boot for adjustable bimetal strip thermostat, with pilot light
9BF06R050SPH018A (F6)	9BF07R088SPH022A (F7)	9BF08R057SPH025A (F8)	9BF09R100SPH026A (F9)
			
			
Silicone boot with resin filling orifice, for miniature limit thermostat, PT100 and NTC sensors, with cable retainer	Silicone boot for adjustable single pole bulb and capillary thermostat, with cable retainer	Silicone boot for temperature sensor dia. 6mm, length less than 40mm	Silicone boot with resin filling orifice, for power supply cable connection, with cable retainer
9BF10R100SPH027A (F10)	9BF11R124SPH023A (F11) 9BF12R100SPH029A (F12)	9BF14R100SPH030A (F14)	9BF15R044SPH031A (F15)
			
			
Silicone boot for adjustable single pole bulb and capillary thermostat, with cable retainer	Silicone boots for dia. 6mm thermostats bulbs.	Silicone boot for adjustable 3 pole bulb and capillary thermostat, with cable retainer	Silicone boot for 1/2" disc thermostat, with external wires output

The 6th character shows the boot color: B= Black; R= orange

JPC, thermostats manufacturer for over 40 years, member of the Ultimheat alliance, partner of electrothermal engineering departments, designs 25 to 50 new products per year, and manufactures them in its 3 production units, Asian and French.



An efficient research and development team, an unparalleled testing laboratory: we have the capabilities to help you to develop **QUICKLY** your future product now.