


































































Technical introduction to the Y1 range

Bulb and capillary thermostats (Liquid expansion measurement)

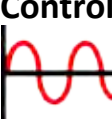

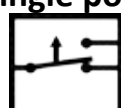

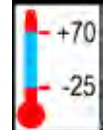
| Type Y1 | Type inside | Set point adjustment access | | | | Manual reset access | | Action type | | | Contacts | Limits of possible temperature ranges |
|---------|-------------|---|---|---|---|---|---|---|--|---|--|---------------------------------------|
| | | Inside | Screwed cap | Window | Outside Knob | Inside* | Cap | Control | Manual reset | Combination control + reset | | |
| Y1G | KR KU |  | | | | | |  | | |  | -25+760°C |
| Y1G | 8G |  | | | | | |  | | |  | -35+300°C |
| Y1H | KR KU | | |  | | | |  | | |  | -25+760°C |
| Y1H | 8G | | |  | | | |  | | |  | -35+300°C |
| Y1I | KR KU | |  | | | | |  | | |  | -25+760°C |
| Y1I | 8G | |  | | | | |  | | |  | -35+300°C |
| Y1J | KR KU | | | |  | | |  | | |  | -25+760°C |
| Y1J | 8G | | | |  | | |  | | |  | -35+300°C |
| Y1J | 8C | | | |  | | |  | | |  | -35+300°C |
| Y1K | 8L | | | | |  | | |  | |  Fail safe | 60-300°C |
| Y1K | 8X | | | | |  | | |  | |  Fail safe | 60-170°C |
| Y1K | 82 | | | | |  | | |  | |  Fail safe | 60-170°C |
| Y1L | 8L | | | | | |  | |  | |  Fail safe | 60-300°C |
| Y1L | 8X | | | | | |  | |  | |  Fail safe | 60-170°C |
| Y1L | 82 | | | | | |  | |  | |  Fail safe | 60-170°C |
| Y1M | KXA |  | | | | |  | |  | |  | -25+760 |
| Y1N | KXA | |  | | | |  | |  | |  | -25+760 |
| Y1O | KXA | | | |  | |  | |  | |  | -25+760 |
| Y1P | 8G+8L | | | |  | |  | | |  |  Fail safe | 60-300°C |
| Y1Q | 8G+8L | | |  | | |  | | |  |  Fail safe | 60-300°C |

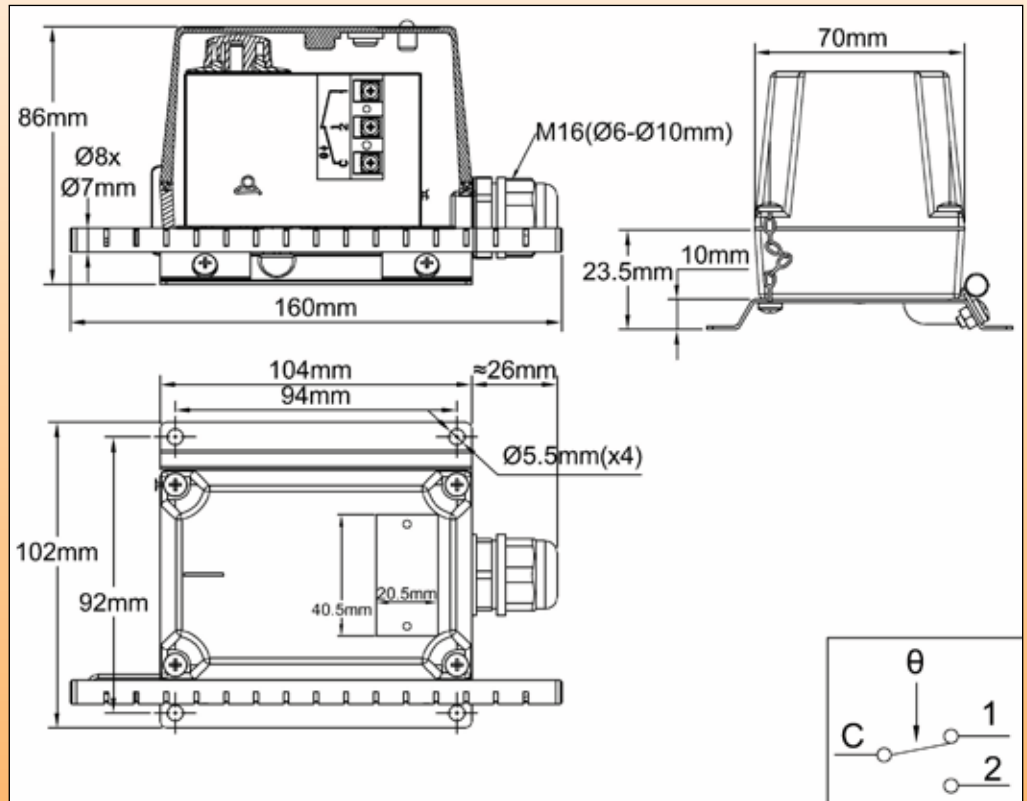
Because of permanent improvement of our products, drawings, descriptions, features used on these data sheets are for guidance only and can be modified without prior advice



The Y1 range of thermostats with IP65 enclosures

Ambient and antifreeze

| Type | Adjustment | Contact | Measurement | Range °C | Model |
|--|---|--|--|---|--|
| Control  | Internal  | Single pole  | Ambient  |  | Y1A Thermostat KR, KU |



Applications:

- Wall mounting for indoor temperature control of cold room
- Temperature control of industrial or commercial premises.
- Outdoor temperature control of antifreeze heaters,
- Green houses and livestock stables temperature control

Withstand very low ambient temperatures

Housing: Aluminum, IP65, IK10, 104 x 102 x 86 mm. Mounted on a SUS304 stainless steel wall mounting plate which keeps temperature sensing element away from the wall. Grey RAL7032 epoxy painting

Set point adjustment ranges: **-25+25°C (-15+80°F), -10+15°C (15-60°F), 0-50°C (32-120°F), 0-70°C (32-160°F).**

Temperature adjustment: Set point adjustable by temperature printed **internal knob**. Shipped with °C printed skirt fitted on the knob, and °F printed skirt in spare part. Printed skirt is replaceable without tool.

Action: temperature control.

Sensing element: Liquid filled bulb. Temperature measurement is made by bulb located on the side of the mounting bracket, under protection tube

Electrical connections: Inside, on screw terminals connection block

Earthing: on internal screw terminal

Cable output: M16 cable gland, PA66, for cables up to 10 mm dia.

Mounting: Wall mounting, by 4 holes for screws dia. 4 to 5 mm, 94 x 92 mm distance

Identification: 20 x 40 mm stainless steel identification label, riveted.

Contact: SPDT

Rating: 15A res. 230/400VAC, electrical life >500.000 cycles.

Reduced differential models cannot be used in 400VAC

Storage minimum temperature: -50°C (-60°F)

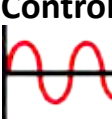

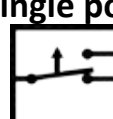

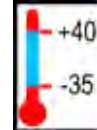
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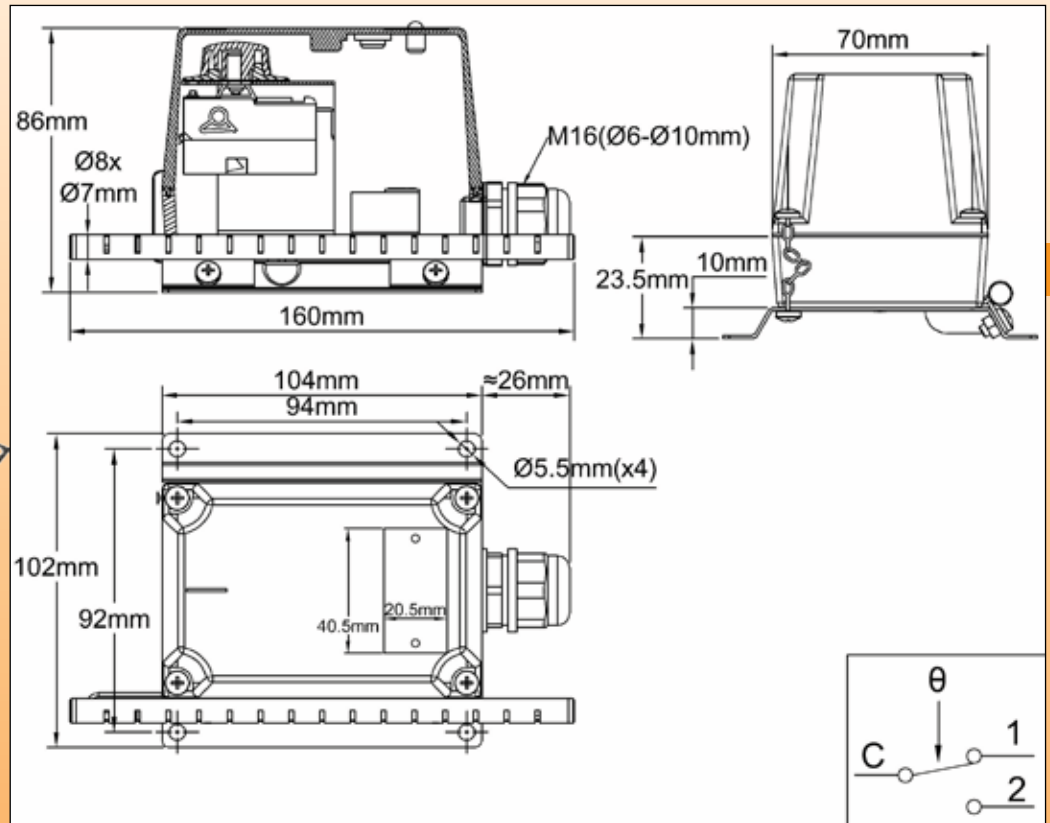
| Temperature adjustment ranges °C (°F) | Standard differential | | Reduced differential | | Maximum ambient temperature °C (°F) |
|---------------------------------------|-----------------------|----------------------|----------------------|----------------------|-------------------------------------|
| | References | Differential °C (°F) | References | Differential °C (°F) | |
| -25+25°C (-15+80°F) | Y1AKRA-25025220E | 3±1°C (5.5±1.8 °F) | Y1AKUA-25025220E | 2±1°C (3.6±1.8 °F) | 60°C (140°F) |
| -10+15°C (15-60°F) | Y1AKRA-10015200E | 3±1°C (5.5±1.8 °F) | Y1AKUA-10015200E | 2±1°C (3.6±1.8 °F) | 60°C (140°F) |
| 0-50°C (32-120°F) | Y1AKRA000050200E | 3±1°C (5.5±1.8 °F) | Y1AKUA000050200E | 2±1°C (3.6±1.8 °F) | 60°C (140°F) |
| 0-70°C (32-160°F) | Y1AKRA000070500E | 5±2°C (9±3.6°F) | Y1AKUA000070500E | 3±1°C (5.5±1.8 °F) | 80°C (180°F) |



The Y1 range of thermostats with IP65 enclosures

Ambient and antifreeze

| Type | Adjustment | Contact | Measurement | Range °C | Model |
|--|---|--|--|---|--|
| Control  | Internal  | Single pole  | Ambient  |  | Y1A Thermostat 8G |



Applications:

- Wall mounting for indoor temperature control of cold room
- Temperature control of industrial or commercial premises.
- Outdoor temperature control of antifreeze heaters,
- Green houses and livestock stables temperature control

Housing: Aluminum, IP65, IK10, 104 x 102 x 86 mm. Mounted on a SUS304 stainless steel wall mounting plate which keeps temperature sensing element away from the wall. Grey RAL7032 epoxy painting

Set point adjustment ranges: -35+35°C (-30+95°F), -10+40°C (15-105°F), 4-40°C (40-105°F).

Temperature adjustment: Set point adjustable by temperature printed **internal knob**. Shipped with °C printed skirt fitted on the knob, and °F printed skirt in spare part. Printed skirt is replaceable without tool.

Sensing element: Liquid filled bulb. Temperature measurement is made by bulb located on the side of the mounting bracket, under protection tube

Action: temperature control.

Electrical connections: Inside, on screw terminals connection block

Earthing: on internal screw terminal

Cable output: M16 cable gland, PA66, for cables up to 10 mm dia.

Mounting: Wall mounting, by 4 holes for screws dia. 4 to 5 mm, 94 x 92 mm distance

Identification: 20 x 40 mm stainless steel identification label, riveted.

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.

Cannot be used in 400VAC

Minimum Storage temperature: -35°C (-30°F)

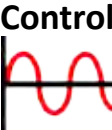

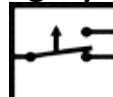

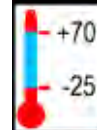
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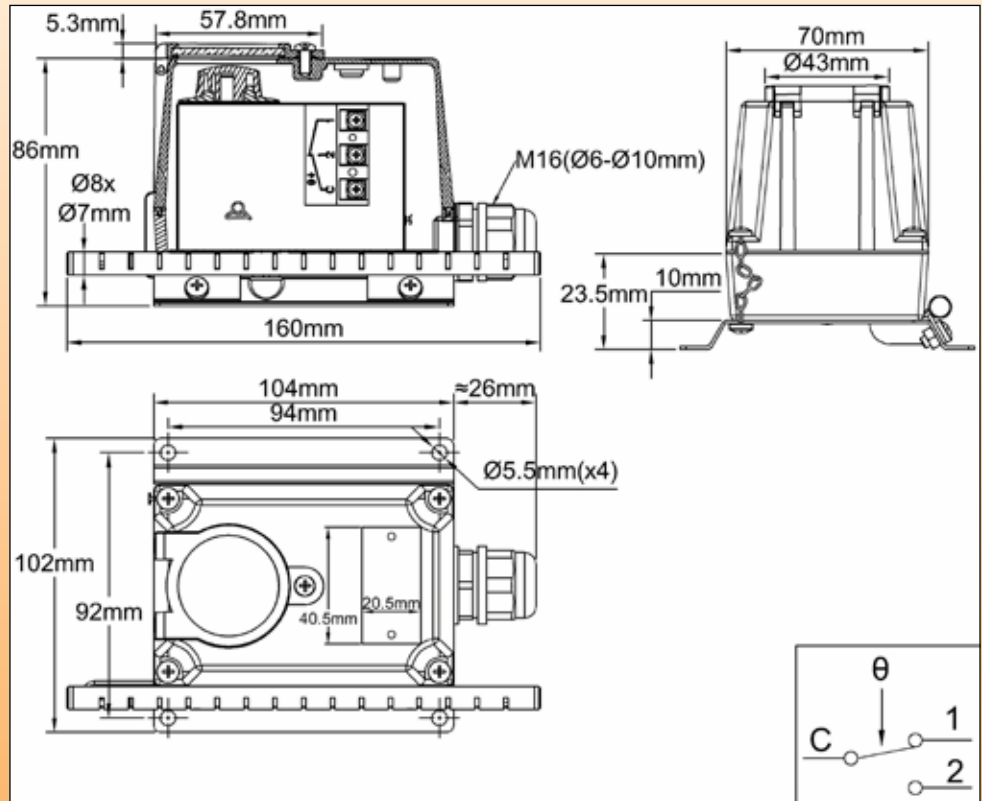
| Temperature adjustment ranges °C (°F) | Differential °C (°F) | Maximum ambient temperature °C (°F) | References |
|---------------------------------------|----------------------|-------------------------------------|------------------|
| -35+35°C (-30+95°F) | 3±2°C (5.5±3.6 °F) | 55°C (130°F) | Y1A8GB-35035AA6E |
| -10+40°C (15-105°F) | 3±2°C (5.5±3.6 °F) | 60°C (140°F) | Y1A8GB-10040AA6E |
| 4-40°C (40-105°F) | 3±2°C (5.5±3.6 °F) | 60°C (140°F) | Y1A8GB004040AA6E |



The Y1 range of thermostats with IP65 enclosures

Ambient and antifreeze

| Type | Adjustment | Contact | Measurement | Range °C | Model |
|--|---|--|--|---|--|
| Control  | Window  | Single pole  | Ambient  |  | Y1B Thermostat KR, KU |



Applications:

- Wall mounting for indoor temperature control of cold room
- Temperature control of industrial or commercial premises.
- Outdoor temperature control of antifreeze heaters,
- Green houses and livestock stables temperature control

Withstand very low ambient temperatures

Housing: Aluminum, IP65, IK10, 104 x 102 x 86 mm. Mounted on a SUS304 stainless steel wall mounting plate which keeps temperature sensing element away from the wall. Grey RAL7032 epoxy painting

Set point adjustment ranges: **-25+25°C (-15+80°F), -10+15°C (15-60°F), 0-50°C (32-120°F), 0-70°C (32-160°F).**

Temperature adjustment: Set point adjustable by temperature printed **internal knob**. **External access by window**. Shipped with °C printed skirt fitted on the knob, and °F printed skirt in spare part. Printed skirt is replaceable without tool.

Action: temperature control.

Sensing element: Liquid filled bulb. Temperature measurement is made by bulb located on the side of the mounting bracket, under protection tube

Electrical connections: Inside, on screw terminals connection block

Earthing: on internal screw terminal

Cable output: M16 cable gland, PA66, for cables up to 10 mm dia.

Mounting: Wall mounting, by 4 holes for screws dia. 4 to 5 mm, 94 x 92 mm distance

Identification: 20 x 40 mm stainless steel identification label, riveted.

Contact: SPDT

Rating: 15A res. 230/400VAC, electrical life >500.000 cycles.

Reduced differential models cannot be used in 400VAC

Storage minimum temperature: -50°C (-60°F)

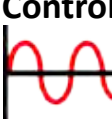

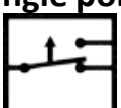


Main references

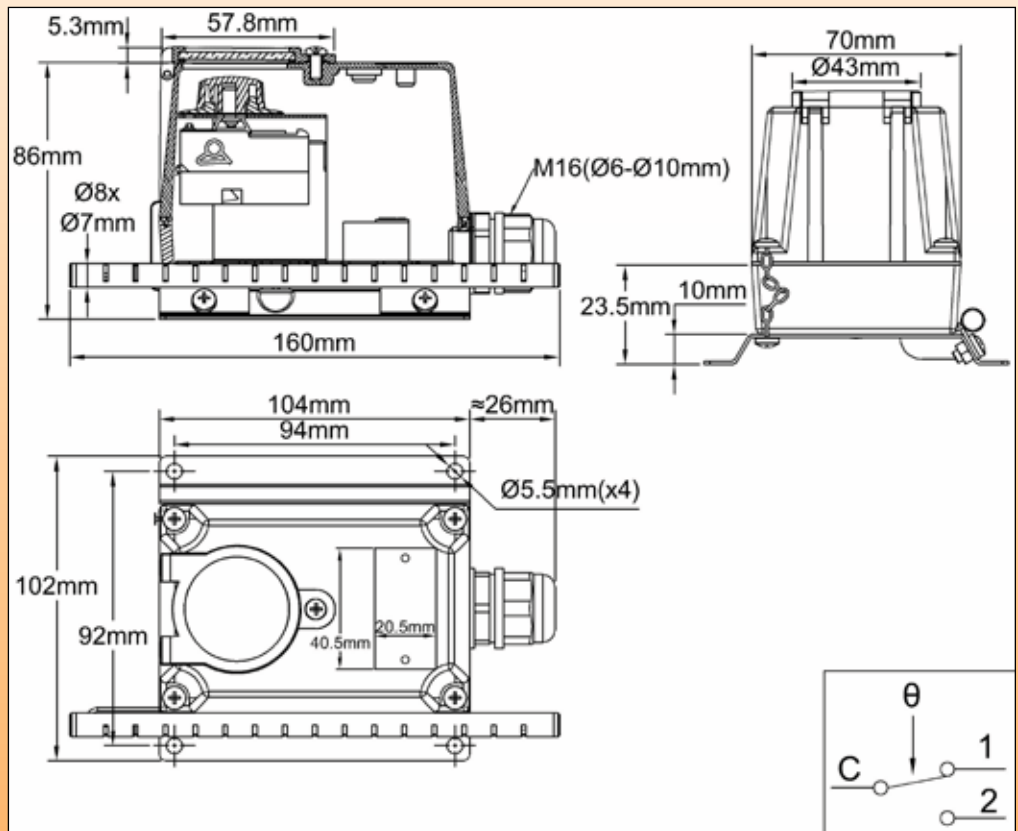
| Temperature adjustment ranges °C (°F) | Standard differential | | Reduced differential | | Maximum ambient temperature °C (°F) |
|---------------------------------------|-----------------------|----------------------|----------------------|----------------------|-------------------------------------|
| | References | Differential °C (°F) | References | Differential °C (°F) | |
| -25+25°C (-15+80°F) | Y1BKRA-25025220F | 3±1°C (5.5±1.8 °F) | Y1BKUA-25025220F | 2±1°C (3.6±1.8 °F) | 60°C (140°F) |
| -10+15°C (15-60°F) | Y1BKRA-10015200F | 3±1°C (5.5±1.8 °F) | Y1BKUA-10015200F | 2±1°C (3.6±1.8 °F) | 60°C (140°F) |
| 0-50°C (32-120°F) | Y1BKRA000050200F | 3±1°C (5.5±1.8 °F) | Y1BKUA000050200F | 2±1°C (3.6±1.8 °F) | 60°C (140°F) |
| 0-70°C (32-160°F) | Y1BKRA000070500F | 5±2°C (9±3.6°F) | Y1BKUA000070500F | 3±1°C (5.5±1.8 °F) | 80°C (180°F) |



The Y1 range of thermostats with IP65 enclosures

Ambient and antifreeze

| Type | Adjustment | Contact | Measurement | Range °C | Model |
|--|---|--|--|---|--|
| Control  | Window  | Single pole  | Ambient  |  | Y1B Thermostat 8G |



Applications:

- Wall mounting for indoor temperature control of cold room
- Temperature control of industrial or commercial premises.
- Outdoor temperature control of antifreeze heaters,
- Green houses and livestock stables temperature control

Housing: Aluminum, IP65, IK10, 104 x 102 x 86 mm. Mounted on a SUS304 stainless steel wall mounting plate which keeps temperature sensing element away from the wall. Grey RAL7032 epoxy painting

Set point adjustment ranges: -35+35°C (-30+95°F), -10+40°C (15-105°F), 4-40°C (40-105°F).

Temperature adjustment: Set point adjustable by temperature printed **internal knob with window external access**. Shipped with °C printed skirt fitted on the knob, and °F printed skirt in spare part. Printed skirt is replaceable without tool.

Sensing element: Liquid filled bulb. Temperature measurement is made by bulb located on the side of the mounting bracket, under protection tube

Action: temperature control.

Electrical connections: Inside, on screw terminals connection block

Earthing: on internal screw terminal

Cable output: M16 cable gland, PA66, for cables up to 10 mm dia.

Mounting: Wall mounting, by 4 holes for screws dia. 4 to 5 mm, 94 x 92 mm distance

Identification: 20 x 40 mm stainless steel identification label, riveted.

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.

Cannot be used in 400VAC

Minimum Storage temperature: -35°C (-30°F)

Main references

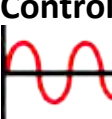

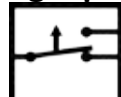

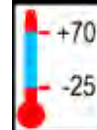
| Temperature adjustment ranges °C (°F) | Differential °C (°F) | Maximum ambient temperature °C (°F) | References |
|---------------------------------------|----------------------|-------------------------------------|------------------|
| -35+35°C (-30+95°F) | 3±2°C (5.5±3.6 °F) | 55°C (130°F) | Y1B8GB-35035AA6F |
| -10+40°C (15-105°F) | 3±2°C (5.5±3.6 °F) | 60°C (140°F) | Y1B8GB-10040AA6F |
| 4-40°C (40-105°F) | 3±2°C (5.5±3.6 °F) | 60°C (140°F) | Y1B8GB004040AA6F |

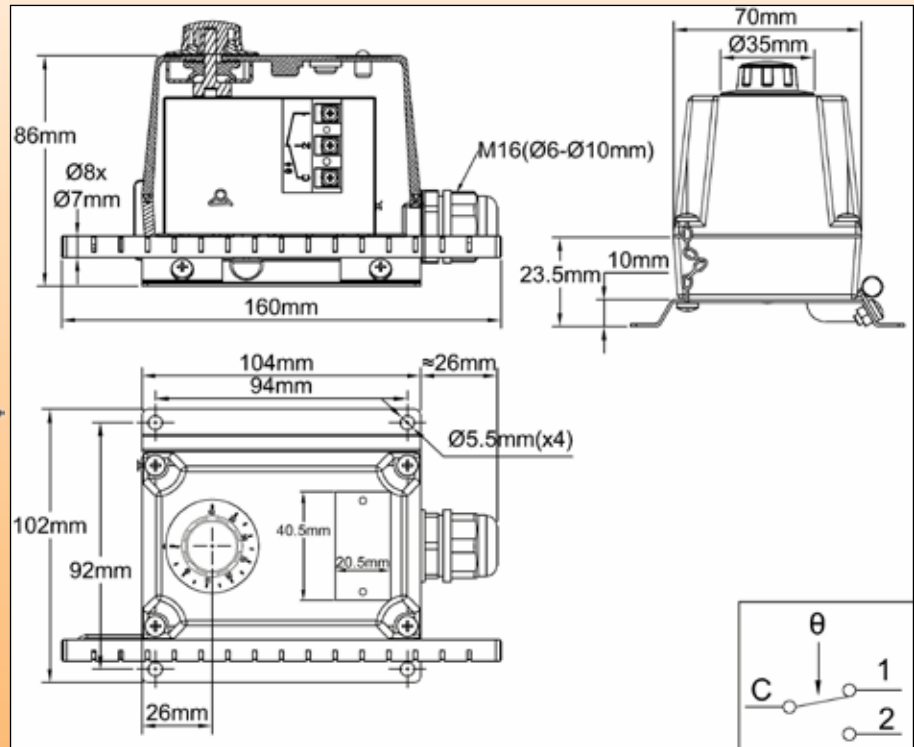


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The Y1 range of thermostats with IP65 enclosures

Ambient and antifreeze

| Type | Adjustment | Contact | Measurement | Range °C | Model |
|--|--|--|--|---|--|
| Control  | External Knob  | Single pole  | Ambient  |  | Y1C Thermostat KR, KU |



Applications:

- Wall mounting for indoor temperature control of cold room
- Temperature control of industrial or commercial premises.
- Outdoor temperature control of antifreeze heaters,
- Green houses and livestock stables temperature control

Withstand very low ambient temperatures

Housing: Aluminum, IP65, IK6, 104 x 102 x 86 mm. Mounted on a SUS304 stainless steel wall mounting plate which keeps temperature sensing element away from the wall. Grey RAL7032 epoxy painting

Set point adjustment ranges: -25+25°C (-15+80°F), -10+15°C (15-60°F), 0-50°C (32-120°F), 0-70°C (32-160°F).

Temperature adjustment: Set point adjustable by temperature printed external knob. Shipped with °C printed skirt fitted on the knob, and °F printed skirt in spare part. Printed skirt is replaceable without tool.

There are no electrical wires between the cover and the thermostat mounted on the bottom of the enclosure. The knob is attached to the cover, and has a coupler for its connection to the thermostat.

Action: temperature control.

Sensing element: Liquid filled bulb. Temperature measurement is made by bulb located on the side of the mounting bracket, under protection tube

Electrical connections: Inside, on screw terminal connection block

Earthing: on internal screw terminal

Cable output: M16 cable gland, PA66, for cables up to 10 mm dia.

Mounting: Wall mounting, by 4 holes for screws dia. 4 to 5 mm, 94 x 92 mm distance

Identification: 20 x 40 mm stainless steel identification label, riveted.

Contact: SPDT

Rating: 15A res. 230/400VAC, electrical life >500.000 cycles.

Reduced differential models cannot be used in 400VAC

Storage minimum temperature: -50°C (-60°F)

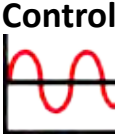



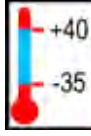
Main references

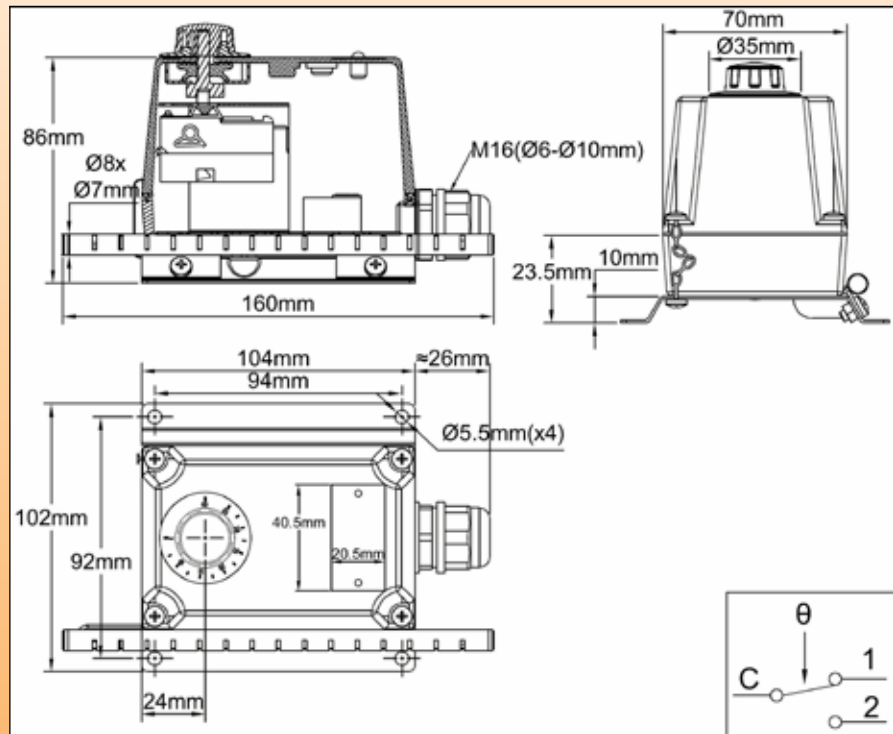
| Temperature adjustment ranges °C (°F) | Standard differential | | Reduced differential | | Maximum ambient temperature °C (°F) |
|---------------------------------------|-----------------------|----------------------|----------------------|----------------------|-------------------------------------|
| | References | Differential °C (°F) | References | Differential °C (°F) | |
| -25+25°C (-15+80°F) | Y1CKRA-25025220E | 3±1°C (5.5±1.8 °F) | Y1CKUA-25025220E | 2±1°C (3.6±1.8 °F) | 60°C (140°F) |
| -10+15°C (15-60°F) | Y1CKRA-10015200E | 3±1°C (5.5±1.8 °F) | Y1CKUA-10015200E | 2±1°C (3.6±1.8 °F) | 60°C (140°F) |
| 0-50°C (32-120°F) | Y1CKRA000050200E | 3±1°C (5.5±1.8 °F) | Y1CKUA000050200E | 2±1°C (3.6±1.8 °F) | 60°C (140°F) |
| 0-70°C (32-160°F) | Y1CKRA000070500E | 5±2°C (9±3.6 °F) | Y1CKUA000070500E | 3±1°C (5.5±1.8 °F) | 80°C (180°F) |



The Y1 range of thermostats with IP65 enclosures

Ambient and antifreeze

| Type | Adjustment | Contact | Measurement | Range °C | Model |
|--|--|--|--|---|---|
| Control  | External Knob  | Single pole  | Ambient  |  | Y1C Internal control 8G |



Applications:

- Wall mounting for indoor temperature control of cold room
- Temperature control of industrial or commercial premises.
- Outdoor temperature control of antifreeze heaters,
- Green houses and livestock stables temperature control

Housing: Aluminum, IP65, IK6, 104 x 102 x 86 mm. Mounted on a SUS304 stainless steel wall mounting plate which keeps temperature sensing element away from the wall. Grey RAL7032 epoxy painting

Set point adjustment ranges: -35+35°C (-30+95°F), -10+40°C (15-105°F), 4-40°C (40-105°F).

Temperature adjustment: Set point adjustable by temperature printed **external knob**. Shipped with °C printed skirt fitted on the knob, and °F printed skirt in spare part. Printed skirt is replaceable without tool.

No electrical wires between the cover and the thermostat mounted on the bottom of the enclosure. Knob is attached to the cover, and has a coupler for its connection to the thermostat.

Sensing element: Liquid filled bulb. Temperature measurement is made by bulb located on the side of the mounting bracket, under protection tube

Action: temperature control.

Electrical connections: Inside, on screw terminals connection block

Earthing: on internal screw terminal

Cable output: M16 cable gland, PA66, for cables up to 10 mm dia.

Mounting: Wall mounting, by 4 holes for screws dia. 4 to 5 mm, 94 x 92 mm distance

Identification: 20 x 40 mm stainless steel identification label, riveted.

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.

Cannot be used in 400VAC

Minimum Storage temperature: -35°C (-30°F)

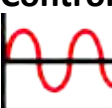

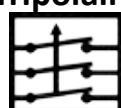

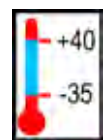
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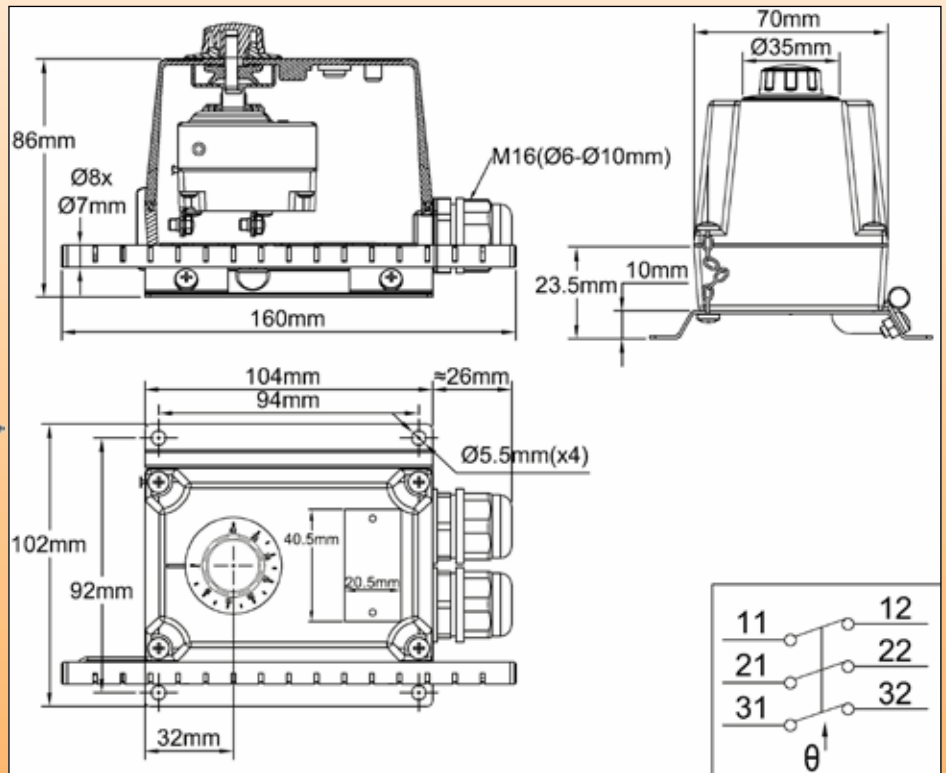
| Temperature adjustment ranges °C (°F) | Differential °C (°F) | Maximum ambient temperature °C (°F) | References |
|---------------------------------------|----------------------|-------------------------------------|------------------|
| -35+35°C (-30+95°F) | 3±2°C (5.5±3.6 °F) | 55°C (130°F) | Y1C8GB-35035AA6E |
| -10+40°C (15-105°F) | 3±2°C (5.5±3.6 °F) | 60°C (140°F) | Y1C8GB-10040AA6E |
| 4-40°C (40-105°F) | 3±2°C (5.5±3.6 °F) | 60°C (140°F) | Y1C8GB004040AA6E |



The Y1 range of thermostats with IP65 enclosures

Ambient and antifreeze

| Type | Adjustment | Contact | Measurement | Range °C | Model |
|--|--|---|---|---|--|
| Control  | External Knob  | Tripolaire  | Ambiance  |  | Y1C Internal control 8C |



Applications:

- Wall mounting for indoor temperature control of cold room
- Temperature control of industrial or commercial premises.
- Outdoor temperature control of antifreeze heaters,
- Green houses and livestock stables temperature control

Internal adjustment under window cap is convenient for products that must be frequently adjusted, but reduces IK impact resistance, and does not protect against malicious actions.

Standard electrical and mechanical life model

For use in 250V or 400V, 3 phases

Housing: Aluminum, IP65, IK10, 104 x 102 x 86 mm. Mounted on a SUS304 stainless steel wall mounting plate which keeps temperature sensing element away from the wall. Grey RAL7032 epoxy painting

Adjustment ranges: -35+35°C (-30+95°F), 4-40°C (40-105°F).

Temperature adjustment: Set point adjustable by temperature printed **external knob**. Shipped with °C printed skirt fitted on the knob, and °F printed skirt in spare part. Printed skirt is replaceable without tool.

Remark: The thermostat, its wiring and knob are attached to the cover

Sensing element: Liquid filled bulb. Temperature measurement is made by bulb located on the side of the mounting bracket, under protection tube

Action: temperature control.

Electrical connections: on thermostat screw terminals

Earthing: on internal screw terminal

Cable output: 2x M16 cable gland, PA66, for cables up to 10 mm dia.

Mounting: Wall mounting, by 4 holes for screws dia. 4 to 5 mm, 94 x 92 mm distance

Identification: 20 x 40 mm stainless steel identification label, riveted.

Contact: 3 poles, open on temperature rise

Electrical rating: 3 x 16A (2,6) 250V alt. 3 x 10 (0.6) 400V alt

- Electrical life >100.000 cycles.

Minimum Storage temperature: -35°C (-30°F)

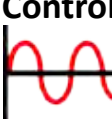



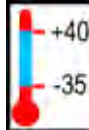
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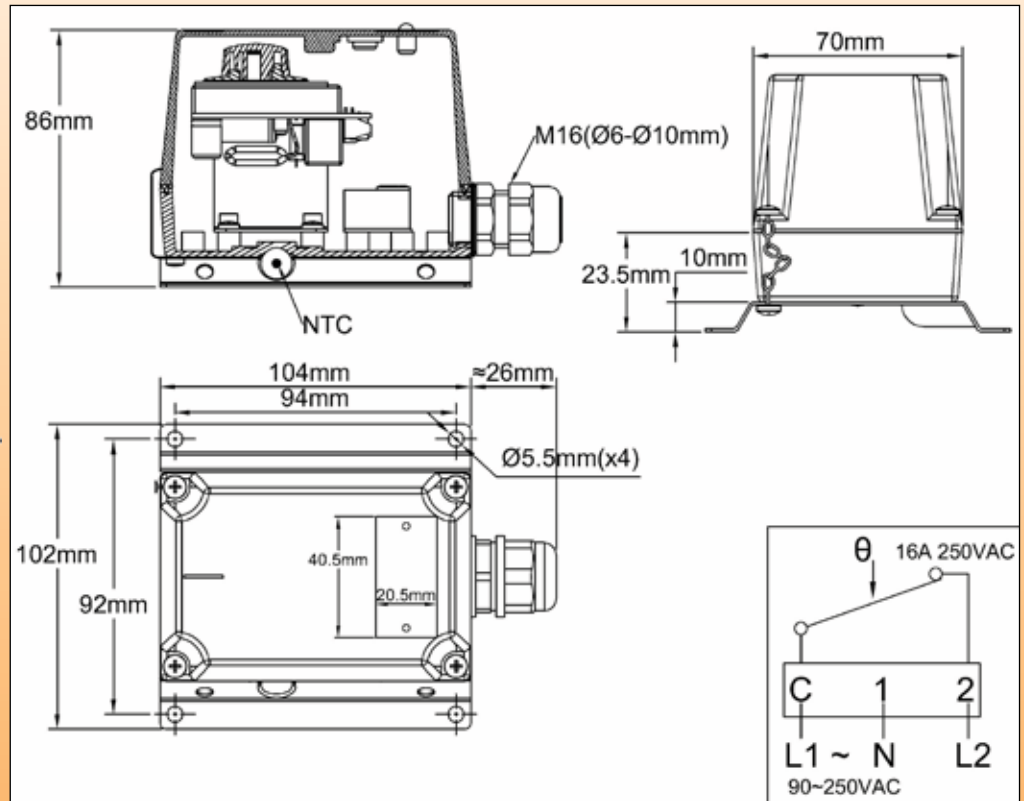
| Temperature adjustment ranges °C (°F) | Differential °C (°F) | Maximum ambient temperature °C (°F) | References |
|---------------------------------------|----------------------|-------------------------------------|------------------|
| -35+35°C (-30+95°F) | 3±2°C (5.5±3.6 °F) | 55°C (130°F) | Y1C8CB-35035AA6G |
| 4-40°C (40-105°F) | 3±2°C (5.5±3.6 °F) | 60°C (140°F) | Y1C8CB004040AA6G |



The Y1 range of thermostats with IP65 enclosures

Ambient and antifreeze

| Type | Adjustment | Contact | Measurement | Range °C | Model |
|--|---|--|--|---|--|
| Control  | Internal  | Single pole  | Ambient  |  | Y1D Thermostat 2PE2N6 |



Applications:

- Wall mounting for indoor temperature control of cold room
- Temperature control of industrial or commercial premises.
- Outdoor temperature control of antifreeze heaters,
- Green houses and livestock stables temperature control

This electronic model allows temperature control with smaller differential than liquid expansion

Housing: Aluminum, IP65, IK10, 104 x 102 x 86 mm. Mounted on a SUS304 stainless steel wall mounting plate which keeps temperature sensing element away from the wall. Grey RAL7032 epoxy painting

Set point adjustment ranges: -35+35°C (-30+95°F), 0-10°C (32-50°F), 4-40°C (40-105°F).

Temperature adjustment: Set point adjustable by temperature printed **internal knob**. Shipped with °C printed skirt fitted on the knob, and °F printed skirt in spare part. Printed skirt is replaceable without tool.

Sensing element: NTC sensor located on the side of the mounting bracket, under waterproof silicone protection cap.

Action: **electronic temperature control**, on off action

Differential: **Adjustable** by potentiometer located under the internal knob

Electrical connections: Inside, on screw terminal connection block

Earthing: on internal screw terminal

Cable output: M16 cable gland, PA66, for cables up to 10 mm dia.

Mounting: Wall mounting, by 4 holes for screws dia. 4 to 5 mm, 94 x 92 mm distance

Identification: 20 x 40 mm stainless steel identification label, riveted.

Contact: open on temperature rise or close on temperature rise. Selection is made with a switch, with access after removing internal knob.

Power supply: universal, from 90 to 240V, 50Hz or 60Hz

Electrical rating: 16A 250VAC res.

- Electrical life >100.000 cycles.

Cannot be used in 400VAC

Minimum Storage temperature: -20°C (-5°F)

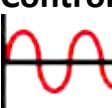



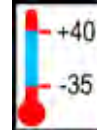
Main references

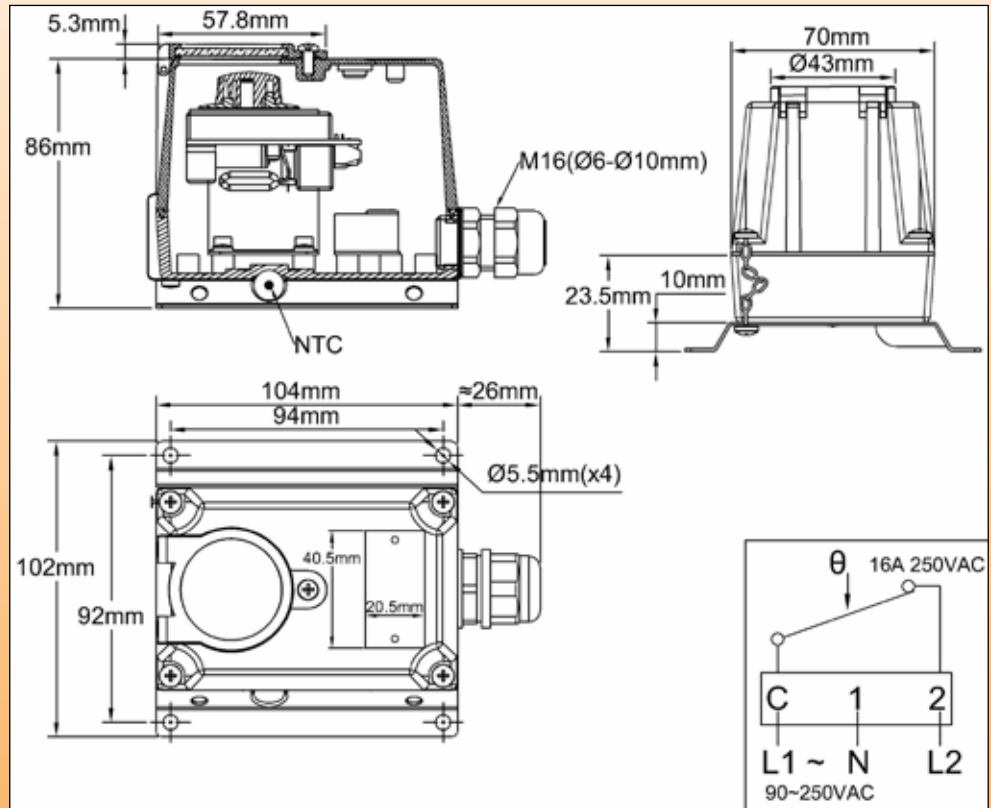
| Temperature adjustment ranges °C (°F) | Differential °C (°F) | Maximum ambient temperature °C (°F) | References |
|---------------------------------------|-----------------------|-------------------------------------|------------------|
| -35+35°C (-30+95°F) | 0.5~5.5°C (0.9~10°F) | 50°C (120°F) | Y1D2PE2N6-35035E |
| 0-10°C (32-50°F) | 0.5~2.5°C (0.9~4.5°F) | 50°C (120°F) | Y1D2PE2N6000010E |
| 4-40°C (40-105°F) | 0.5~2.5°C (0.9~4.5°F) | 50°C (120°F) | Y1D2PE2N6004040E |



The Y1 range of thermostats with IP65 enclosures

Ambient and antifreeze

| Type | Adjustment | Contact | Measurement | Range °C | Model |
|--|---|--|--|---|--|
| Control  | Window  | Single pole  | Ambient  |  | Y1E Thermostat 2PE2N6 |



Applications:

- Wall mounting for indoor temperature control of cold room
- Temperature control of industrial or commercial premises.
- Outdoor temperature control of antifreeze heaters,
- Green houses and livestock stables temperature control

This electronic model allows temperature control with smaller differential than liquid expansion

Housing: Aluminum, IP65, IK10, 104 x 102 x 86 mm. Mounted on a SUS304 stainless steel wall mounting plate which keeps temperature sensing element away from the wall. Grey RAL7032 epoxy painting

Set point adjustment ranges: -35+35°C (-30+95°F), 0-10°C (32-50°F), 4-40°C (40-105°F).

Temperature adjustment: Set point adjustable by temperature printed **internal knob with external access by window**. Shipped with °C printed skirt fitted on the knob, and °F printed skirt in spare part. Printed skirt is replaceable without tool.

Sensing element: NTC sensor located on the side of the mounting bracket, under waterproof silicone protection cap.

Action: **electronic temperature control**, on off action

Differential: **Adjustable** by potentiometer located under the internal knob

Electrical connections: Inside, on screw terminal connection block

Earthing: on internal screw terminal

Cable output: M16 cable gland, PA66, for cables up to 10 mm dia.

Mounting: Wall mounting, by 4 holes for screws dia. 4 to 5 mm, 94 x 92 mm distance

Identification: 20 x 40 mm stainless steel identification label, riveted.

Contact: open on temperature rise or close on temperature rise. Selection is made with a switch, with access after removing internal knob.

Power supply: universal, from 90 to 240V, 50Hz or 60Hz

Electrical rating: 16A 250VAC res.

- Electrical life >100.000 cycles.

Cannot be used in 400VAC

Minimum Storage temperature: -20°C (-5°F)

Main references

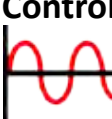

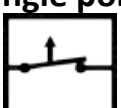


| Temperature adjustment ranges °C (°F) | Differential °C (°F) | Maximum ambient temperature °C (°F) | References |
|---------------------------------------|-----------------------|-------------------------------------|------------------|
| -35+35°C (-30+95°F) | 0.5~5.5°C (0.9~10°F) | 50°C (120°F) | Y1E2PE2N6-35035F |
| 0-10°C (32-50°F) | 0.5~2.5°C (0.9~4.5°F) | 50°C (120°F) | Y1E2PE2N6000010F |
| 4-40°C (40-105°F) | 0.5~2.5°C (0.9~4.5°F) | 50°C (120°F) | Y1E2PE2N6004040F |

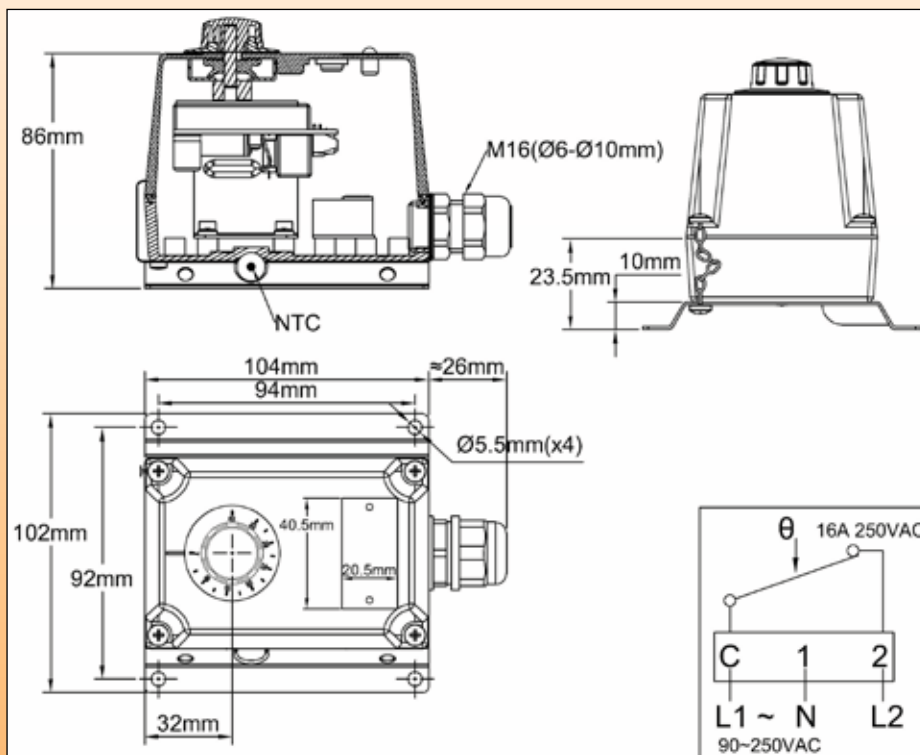
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The Y1 range of thermostats with IP65 enclosures

Ambient and antifreeze

| Type | Adjustment | Contact | Measurement | Range °C | Model |
|--|--|--|--|---|--|
| Control  | External knob  | Single pole  | Ambient  |  | Y1F Thermostat 2PE2N6 |



Applications:

- Wall mounting for indoor temperature control of cold room
- Temperature control of industrial or commercial premises.
- Outdoor temperature control of antifreeze heaters,
- Green houses and livestock stables temperature control

This electronic model allows temperature control with smaller differential than liquid expansion

Housing: Aluminum, IP65, IK10, 104 x 102 x 86 mm. Mounted on a SUS304 stainless steel wall mounting plate which keeps temperature sensing element away from the wall. Grey RAL7032 epoxy painting

Set point adjustment ranges: -35+35°C (-30+95°F), 0-10°C (32-50°F), 4-40°C (40-105°F).

Temperature adjustment: Set point adjustable by temperature printed external knob. Shipped with °C printed skirt fitted on the knob, and °F printed skirt in spare part. Printed skirt is replaceable without tool.

No electrical wires between the cover and the thermostat mounted on the bottom of the enclosure. Knob is attached to the cover, and has a coupler for its connection to the thermostat

Sensing element: NTC sensor located on the side of the mounting bracket, under waterproof silicone protection cap.

Action: electronic temperature control, on off action

Differential: Adjustable by potentiometer located under the internal knob

Electrical connections: Inside, on screw terminal connection block

Earthing: on internal screw terminal

Cable output: M16 cable gland, PA66, for cables up to 10 mm dia.

Mounting: Wall mounting, by 4 holes for screws dia. 4 to 5 mm, 94 x 92 mm distance

Identification: 20 x 40 mm stainless steel identification label, riveted.

Contact: open on temperature rise or close on temperature rise. Selection is made with a switch, with access after removing internal knob.

Power supply: universal, from 90 to 240V, 50Hz or 60Hz

Electrical rating: 16A 250VAC res.

- Electrical life >100.000 cycles.

Cannot be used in 400VAC

Minimum Storage temperature: -20°C (-5°F)

Main references

| Temperature adjustment ranges °C (°F) | Differential °C (°F) | Maximum ambient temperature °C (°F) | References |
|---------------------------------------|-----------------------|-------------------------------------|------------------|
| -35+35°C (-30+95°F) | 0.5~5.5°C (0.9~10°F) | 50°C (120°F) | Y1F2PE2N6-35035E |
| 0-10°C (32-50°F) | 0.5~2.5°C (0.9~4.5°F) | 50°C (120°F) | Y1F2PE2N6000010E |
| 4-40°C (40-105°F) | 0.5~2.5°C (0.9~4.5°F) | 50°C (120°F) | Y1F2PE2N6004040E |

