

Precision Products

- Thermostats
- Switches



Telemeter Electronic

Thermal Management

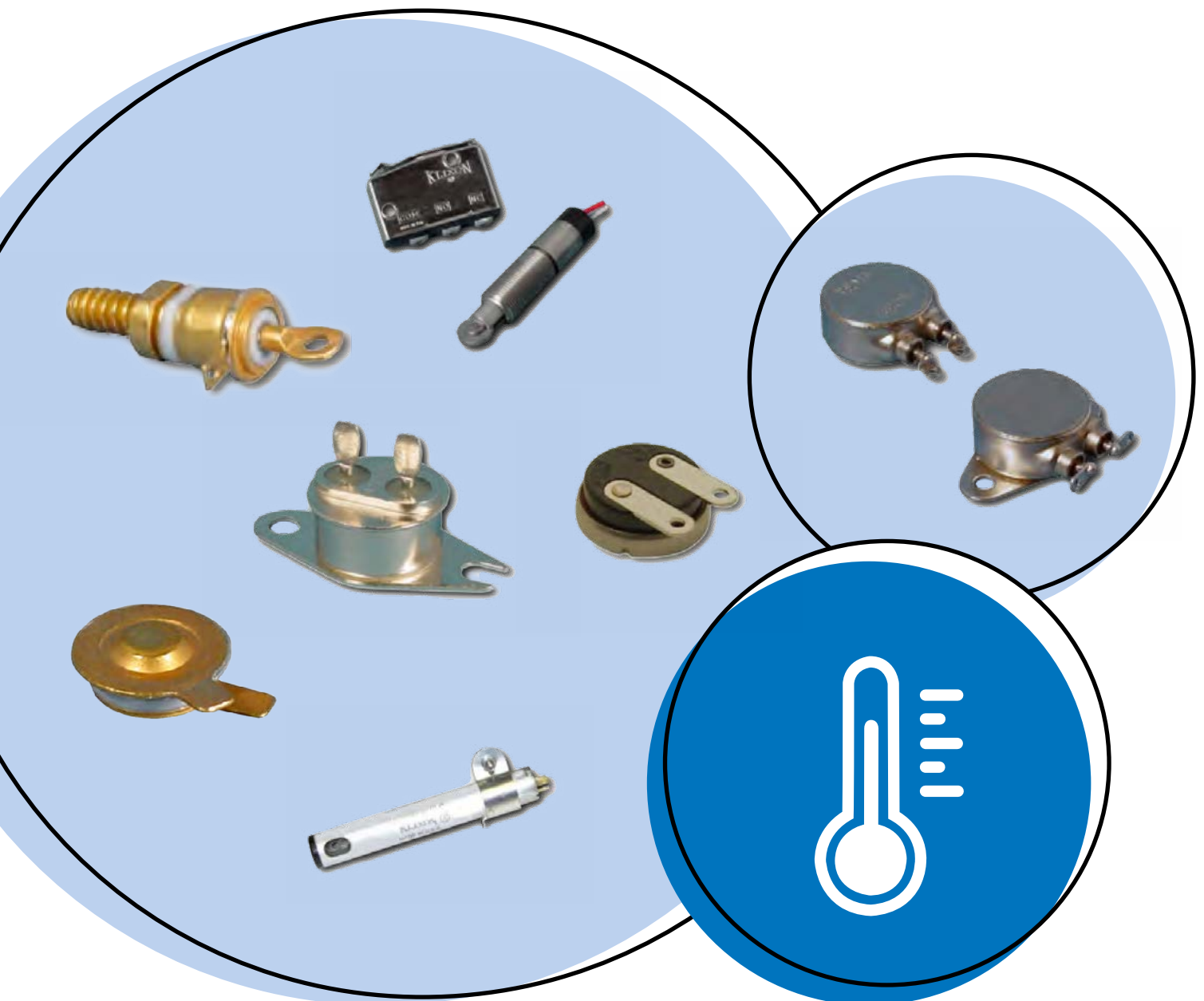
Industrial Components

Test & Measurement

RF & Microwaves

Aviation

Engineering & Service



... we provide solutions!



About us

Telemeter Electronic is a certified sales and service-providing company with more than 50 years history of experience. We are focused on a personal and partnership-based-cooperation by our professionally competent market specialists.

What do we offer?

We offer a comprehensive range of electronic and mechatronic components, devices and systems, detailed knowledge about it and many years of experience in diverse applications. Long lasting partnerships with selected and specialized manufacturers and our own development department ensure that we elaborate the best solution together with you.

What makes us different?

Our philosophy is to accurately identify the needs of our customers to find the right solution. We support you with our extensive range and individual adaptations, additions and developments.

... we provide solutions!

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Thermostats



KLIXON® Tiny Stat™ 3BT & 4BT Series Thermostats

| | | | |
|---|---|---|--|
| General Description <ul style="list-style-type: none">• Tiny Stat™ precision thermostat• Single pole, single throw (SPST)• Hermetically sealed and back-filled with nitrogen• Gold-plated contacts available upon request | Operating Switch Range <ul style="list-style-type: none">• -18°C to 177°C (0°F to 350°F) | Max Current and Voltage Rating <ul style="list-style-type: none">• 1 amp at 115VAC & 30VDC for 10,000 life cycles• 0.01 amp at 30mVAC & 30mVDC (gold contacts, min amps) for 10,000 life cycles | Approvals <ul style="list-style-type: none">• 3BT: MIL-PRF-24236/19• 4BT: MIL-PRF-24236/13 |
|---|---|---|--|

KLIXON® 5BT Series Hermetic Thermostats

| | | | |
|--|---|--|--|
| General Description <ul style="list-style-type: none">• ½" bimetal disc thermostat, hermetically sealed• Single pole, double throw (SPDT)• High resistance to shock and vibration | Operating Switch Range <ul style="list-style-type: none">• -54°C to 204°C (-65°F to 400°F) | Max Current and Voltage Rating <ul style="list-style-type: none">• 2 amp at 125VAC & 30VDC for 100,000 cycles• 3 amp at 125VAC & 30VDC for 50,000 cycles | Approvals <ul style="list-style-type: none">• MIL-PRF-24236 /24 |
|--|---|--|--|

KLIXON® M1, 11041 Series Hermetic Thermostats

| | | | |
|--|---|---|--|
| General Description <ul style="list-style-type: none">• ½" bimetal disc thermostat, hermetically sealed• Single pole, single throw (SPST)• High resistance to shock and vibration | Operating Switch Range <ul style="list-style-type: none">• -54°C to 288°C (-65°F to 550°F) | Max Current and Voltage Rating <ul style="list-style-type: none">• 5 amp at 30VAC & 30VDC at 100,000 cycles• 6 amp at 125VAC at 5,000 cycles• Other amperages, voltage, cycles are available | Approvals <ul style="list-style-type: none">• MIL-PRF-24236/1 |
|--|---|---|--|

KLIXON® M2 Series Hermetic Thermostats

| | | | |
|--|---|---|---|
| General Description <ul style="list-style-type: none">• ½" bimetal disc thermostat, hermetically sealed• Single pole, single throw (SPST)• Low profile, tight tolerance, narrow differentials | Operating Switch Range <ul style="list-style-type: none">• -18°C to 149°C (0°F to 300°F) | Max Current and Voltage Rating <ul style="list-style-type: none">• 2 amp at 120VAC & 30VDC at 250,000 cycles | Approvals <ul style="list-style-type: none">• MIL-PRF-24236/20• S-311-641 |
|--|---|---|---|

KLIXON® 4344 Series Hermetic Thermostats

| | | | |
|--|---|--|--|
| General Description <ul style="list-style-type: none">• ½" bimetal disc thermostat, hermetically sealed• Single pole, single throw (SPST)• Many option available, including switch packaged into probe and pipe strap mount options | Operating Switch Range <ul style="list-style-type: none">• -54°C to 288°C (-65°F to 550°F) | Max Current and Voltage Rating <ul style="list-style-type: none">• 7 amps, 30VAC/VDC at 5,000 cycles• 3 amps, 125VAC at 50,000 cycles• Other amperages, voltage, cycles are available | Approvals <ul style="list-style-type: none">• CUL recognized (#34618) |
|--|---|--|--|

KLIXON® 4391 Series Hermetic Thermostats

| | | | |
|---|---|---|--|
| General Description <ul style="list-style-type: none">• ½" bimetal disc thermostat, hermetically sealed• Single pole, single or double throw (SPST/SPDT)• Many option available, including optional overmold | Operating Switch Range <ul style="list-style-type: none">• -18°C to 232°C (0°F to 450°F) | Max Current and Voltage Rating <ul style="list-style-type: none">• 14 amps, 30VAC/VDC at 5,000 cycles• 6 amps, 125VAC at 50,000 cycles• Other amperages, voltage, cycles are available | |
|---|---|---|--|

Other Products



KLIXON® 7BT2 Series Thermostats

| | | | |
|---|---|---|---|
| General Description <ul style="list-style-type: none">• Environmentally sealed, high capacity, ½" bimetal disc• SPST, normally open or closed | Operating Switch Range <ul style="list-style-type: none">• -1°C to 204°C (30°F to 400°F) | Max Current and Voltage Rating <ul style="list-style-type: none">• 10 amps, 120VAC / 240VAC up to 100,000 cycles• 7 amps, 277VAC up to 100,000 cycles | Approvals <ul style="list-style-type: none">• UL & CUL recognized (#34618) |
|---|---|---|---|

KLIXON® 6786 Series Thermostats

| | | | |
|---|---|---|---|
| General Description <ul style="list-style-type: none">• Environmentally sealed, low-profile, ½" bimetal disc• SPST, normally open or closed | Operating Switch Range <ul style="list-style-type: none">• -29°C to 177°C (-20°F to 350°F) | Max Current and Voltage Rating <ul style="list-style-type: none">• 7 amps, 30VAC/VDC at 5,000 cycles• 3 amps, 125VAC at 50,000 cycles | Approvals <ul style="list-style-type: none">• UL & CUL recognized (#34618) |
|---|---|---|---|

KLIXON® Thermostat Probe Packages

| | | | |
|--|--|---|--|
| General Description <ul style="list-style-type: none">• Extreme temperature probes (up to 550°F), fast response probes and narrow differential probes (2°F to 8°F reset differential) are available | Operating Switch Range <ul style="list-style-type: none">• Extreme temperature: -54°C to 288°C (-65°F to 550°F)• Fast response: -18°C to 177°C (0°F to 350°F)• Narrow differential: -18°C to 135°C (0°F to 275°F) | Max Current and Voltage Rating <ul style="list-style-type: none">• Extreme temperature: Up to 7 amps, various voltages• Fast response: Up to 1 amp at 115VAC & 30VDC• Narrow differential: Up to 2 amp at 125VAC & 30VDC | Approvals <ul style="list-style-type: none">• Extreme temperature, 28303 series only: UL / CUL recognized (#E34618) |
|--|--|---|--|

KLIXON® AT/KX Series Limit Switches

| | | | |
|---|---|--|--|
| General Description <ul style="list-style-type: none">• Compact, hermetically sealed limit switches• Available options include various actuators, mounting brackets, terminations and body styles | Operating Switch Range <ul style="list-style-type: none">• -54°C to 135°C (-65°F to 275°F) | Max Current and Voltage Rating <ul style="list-style-type: none">• AT Series: Up to 4 amps (resistive)• KX Series: Up to 10 amps (resistive) | |
|---|---|--|--|

KLIXON® 2SE Series Airflow Sensors

| | | | |
|--|---|---|--|
| General Description <ul style="list-style-type: none">• Solid-state airflow sensors designed to recognize loss or reduction of airflow in power supplies, data processing units, electronic equipment• SPST or SPDT, normally open or closed | Operating Temperature Range <ul style="list-style-type: none">• 10°C to 50°C (50°F to 122°F) | Max Current and Voltage Rating <ul style="list-style-type: none">• 0.40 amp at 30VDC | Approvals <ul style="list-style-type: none">• Military• Aerospace• Commercial |
|--|---|---|--|

KLIXON® ACMP Series Aircraft Motor Protectors

| | | | |
|--|--|---|--|
| General Description <ul style="list-style-type: none">• Single & three-phase protection• Locked rotor protection• Neutral tap | | Max Current and Voltage Rating <ul style="list-style-type: none">• 28VDC / 120VAC, from 16 amps up to 120 amps | |
|--|--|---|--|

KLIXON® 6PS Pressure Switches

| | | | |
|--|--|---|--|
| General Description <ul style="list-style-type: none">• Hermetic stainless steel construction• Snap action, standard & custom configurations | Operating Switch Range <ul style="list-style-type: none">• 45 to 700 PSIA | Max Current and Voltage Rating <ul style="list-style-type: none">• 5 amps, 28VDC at 50,000 cycles, resistive• 2 amps, 28VDC at 50,000 cycles, inductive | |
|--|--|---|--|

3BT / 4BT Series



KLIXON® | 3BT / 4BT Series
Tiny Stat™ Hermetic Thermostats, -18°C to 177°C, SPST

FEATURES

- Smallest snap-acting thermal switches on the market today
 - Single Pole / Single Throw (SPST)
 - Preset temperature set points, non-adjustable calibration
- Hermetically sealed and back-filled with nitrogen
 - Various mounting configurations available
 - Qualified to MIL-PRF-24236/13 (4BT) and MIL-PRF-24236/19 (3BT)

INTRODUCTION

The Klixon® Tiny Stat™ 3BT and 4BT series combine an impressive list of superlatives in a reliable, hermetically sealed, snap-acting design. The 3BT and 4BT series are the smallest envelope size ever developed, ideal for remote sensing applications in locations with severe space limitations. The 3BT and 4BT are the lightest construction available on the market today, and are perfect for applications where weight is an important consideration. All Klixon Tiny Stats have an extremely fast response in order to permit early warning of overheat conditions. Their low mass internal components allow Tiny Stat precision thermostats to meet the most demanding shock and vibration standards of MIL-PRF-24236. Gold plated contacts can be furnished when low wattage conditions exist that requires reliable circuit switching.

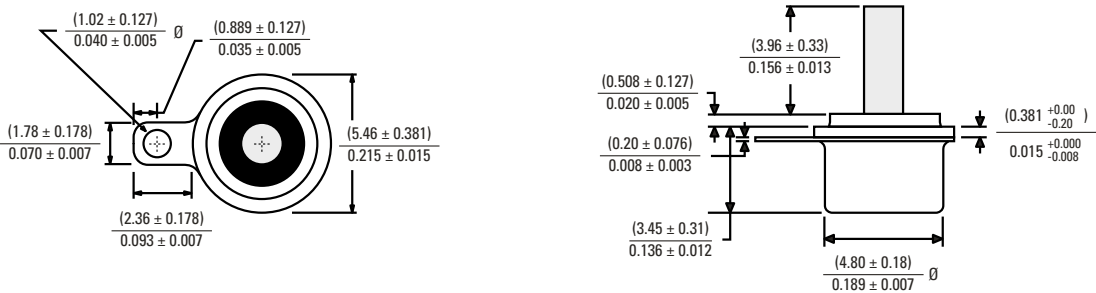
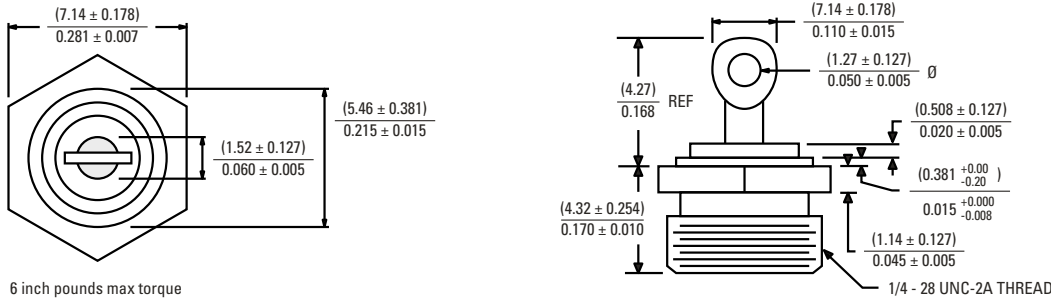
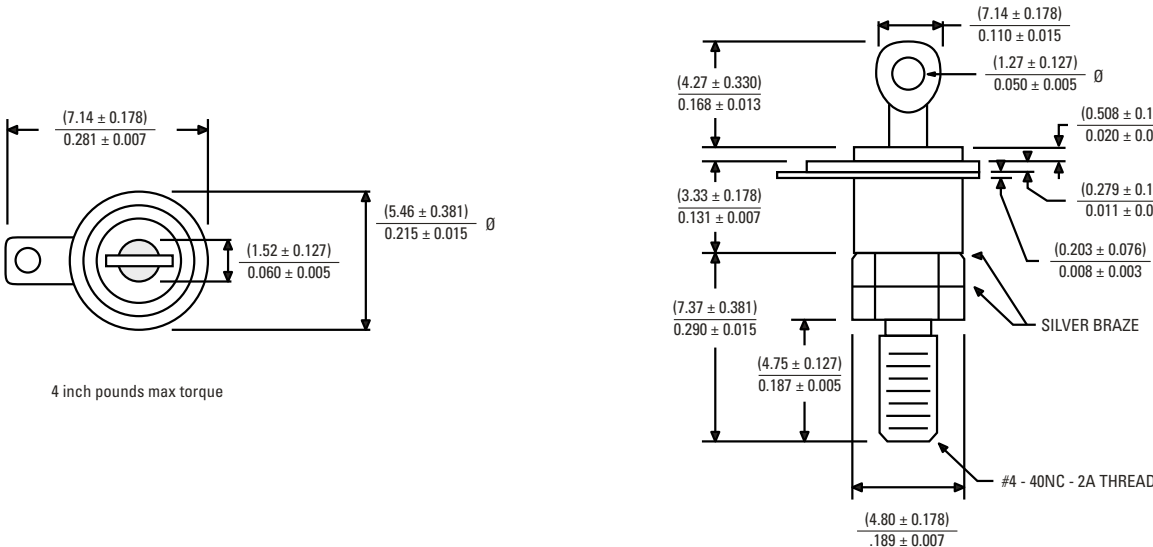
Applications include electronics overheat protection, transformer windings and medical equipment.

| SPECIFICATIONS | | | |
|---------------------------|---|---|--|
| Contact Ratings | Cycles 10,000 10,000 10,000 10,000 | Voltage 115VAC / 30 VDC 30 VAC / VDC 30VAC / VDC 115VAC | Amps (resistive) 1.00 (silver contacts) 0.10 (silver contacts) 500 mA and below (gold contacts) 200 mA and below (gold contacts) |
| Contact Operations | Either close on rise or open on rise , SPST (Single Pole, Single Throw) | | |
| Operating Temperature | -18°C to 177°C (+0°F to 350°F) | | |
| Dielectric Strength | 500 VAC, rms, 60 cycles for 1 minute, across open contacts, per MIL-STD-202, Method 301 | | |
| Contact Resistance | 0.050 ohms maximum (0.100 ohms maximum for close on rise devices with set points greater than 175°F), per MIL-STD-202, Method 307 | | |
| Vibration | 5–2000 Hz, 30 G, per MIL-STD-202, Method 204 <i>Devices which open on rise should not be subjected to vibration while at temperature of 75°F or more below the opening temperature. Devices that close on rise should not be subjected to vibration while at temperatures of 75°F or more above the closing temperature.</i> | | |
| Shock | 100 G, 6 milliseconds, per MIL-STD-202, Method 213 | | |
| Hermeticity | 1 x 10 ⁻⁸ atm cc/sec. maximum, per MIL-STD-202, Method 112, Condition C | | |
| Salt Spray | Per MIL-STD-202, Method 101, Condition B, 5% solution | | |
| Weight | Basic Unit: 0.2 to 0.9 grams | | |
| Ambient Temperature Range | -62°C to 177°C (-80°F to 350°F) | | |

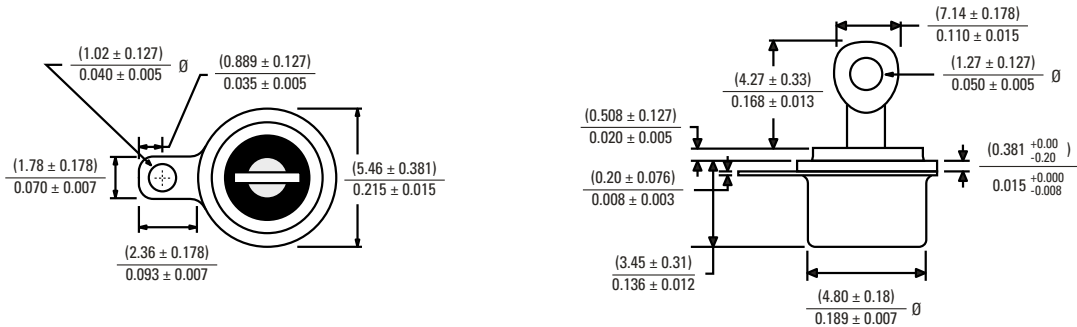
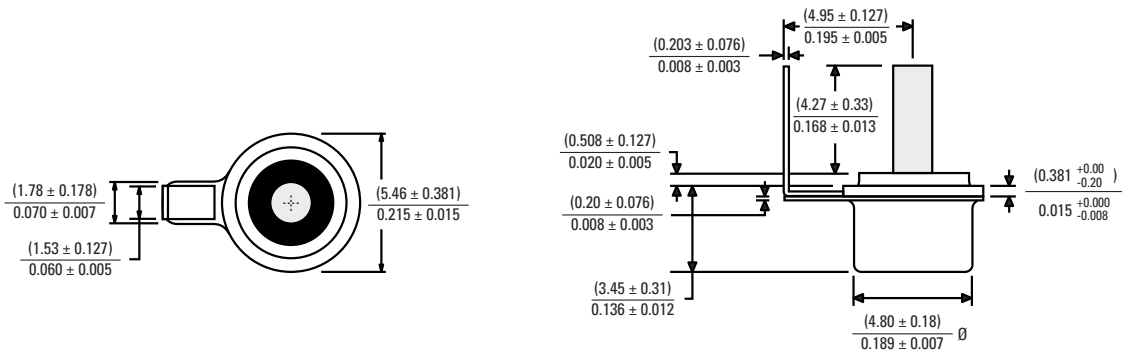
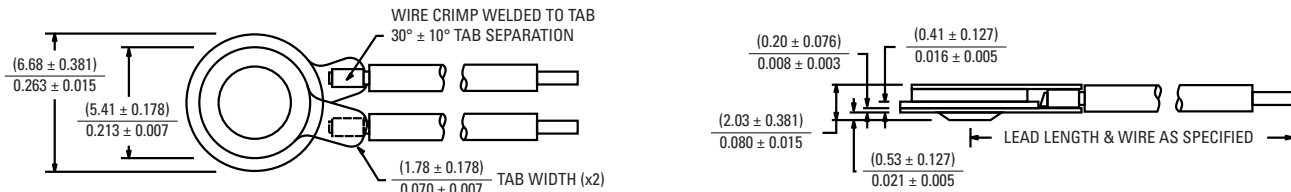
3BT / 4BT Series

| STANDARD TEMPERATURE SETTINGS – STD. TOLERANCE OF ± 4.4°C (8°F) | | | | | | | | | | | | | | |
|---|-----------------------|-----|--------------|----|------|-----------------------|-----|--------------|----|---|-----------------------|-----|--------------|----|
| CODE | OPERATING TEMPERATURE | | DIFFERENTIAL | | CODE | OPERATING TEMPERATURE | | DIFFERENTIAL | | CODE | OPERATING TEMPERATURE | | DIFFERENTIAL | |
| | °C | °F | °C | °F | | °C | °F | °C | °F | | °C | °F | °C | °F |
| 1 | -18 | 0 | 17 | 30 | 25 | 49 | 120 | 17 | 30 | 49 | 116 | 240 | 17 | 30 |
| 2 | -15 | 5 | 17 | 30 | 26 | 52 | 125 | 17 | 30 | 50 | 118 | 245 | 17 | 30 |
| 3 | -12 | 10 | 17 | 30 | 27 | 54 | 130 | 17 | 30 | 51 | 121 | 250 | 17 | 30 |
| 4 | -9 | 15 | 17 | 30 | 28 | 57 | 135 | 17 | 30 | 52 | 124 | 255 | 17 | 30 |
| 5 | -7 | 20 | 17 | 30 | 29 | 60 | 140 | 17 | 30 | 53 | 127 | 260 | 17 | 30 |
| 6 | -4 | 25 | 17 | 30 | 30 | 63 | 145 | 17 | 30 | 54 | 129 | 265 | 17 | 30 |
| 7 | -1 | 30 | 17 | 30 | 31 | 66 | 150 | 17 | 30 | 55 | 132 | 270 | 17 | 30 |
| 8 | 2 | 35 | 17 | 30 | 32 | 68 | 155 | 17 | 30 | 56 | 135 | 275 | 17 | 30 |
| 9 | 4 | 40 | 17 | 30 | 33 | 71 | 160 | 17 | 30 | 57 | 138 | 280 | 17 | 30 |
| 10 | 7 | 45 | 17 | 30 | 34 | 74 | 165 | 17 | 30 | 58 | 141 | 285 | 17 | 30 |
| 11 | 10 | 50 | 17 | 30 | 35 | 77 | 170 | 17 | 30 | 59 | 143 | 290 | 17 | 30 |
| 12 | 13 | 55 | 17 | 30 | 36 | 79 | 175 | 17 | 30 | 60 | 146 | 295 | 17 | 30 |
| 13 | 16 | 60 | 17 | 30 | 37 | 82 | 180 | 17 | 30 | 61 | 149 | 300 | 17 | 30 |
| 14 | 18 | 65 | 17 | 30 | 38 | 85 | 185 | 17 | 30 | 62 | 152 | 305 | 17 | 30 |
| 15 | 21 | 70 | 17 | 30 | 39 | 88 | 190 | 17 | 30 | 63 | 154 | 310 | 17 | 30 |
| 16 | 24 | 75 | 17 | 30 | 40 | 91 | 195 | 17 | 30 | 64 | 157 | 315 | 17 | 30 |
| 17 | 27 | 80 | 17 | 30 | 41 | 93 | 200 | 17 | 30 | 65 | 160 | 320 | 17 | 30 |
| 18 | 29 | 85 | 17 | 30 | 42 | 96 | 205 | 17 | 30 | 66 | 163 | 325 | 17 | 30 |
| 19 | 32 | 90 | 17 | 30 | 43 | 99 | 210 | 17 | 30 | 67 | 166 | 330 | 17 | 30 |
| 20 | 35 | 95 | 17 | 30 | 44 | 102 | 215 | 17 | 30 | 68 | 168 | 335 | 17 | 30 |
| 21 | 38 | 100 | 17 | 30 | 45 | 104 | 220 | 17 | 30 | 69 | 171 | 340 | 17 | 30 |
| 22 | 41 | 105 | 17 | 30 | 46 | 107 | 225 | 17 | 30 | 70 | 174 | 345 | 17 | 30 |
| 23 | 43 | 110 | 17 | 30 | 47 | 110 | 230 | 17 | 30 | 71 | 177 | 350 | 17 | 30 |
| 24 | 46 | 115 | 17 | 30 | 48 | 113 | 235 | 17 | 30 | Consult factory for additional temperatures | | | | |

3BT / 4BT Series

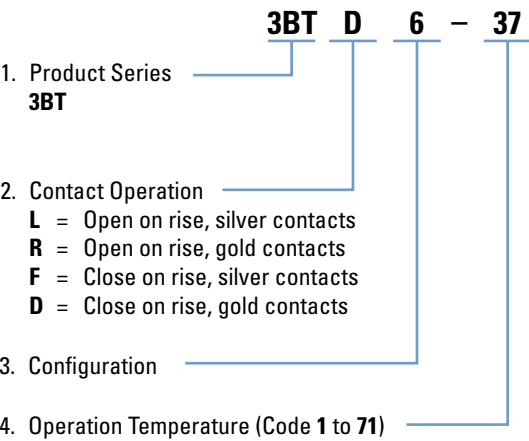
| STANDARD CONFIGURATIONS | | | | |
|--|-----------------------------|-----------------------|------------------------------|----------|
| 3BT-2 | Grounded Case Construction | Approx. wt. 0.4 grams | Conforms to MIL-PRF-24236/19 | Config 1 |
|  | | | | |
| 3BT-3 | Grounded Case Construction | Approx. wt. 0.9 grams | Conforms to MIL-PRF-24236/19 | Config 3 |
|  | | | | |
| 3BT-6 | Insulated Case Construction | Approx. wt. 0.9 grams | Conforms to MIL-PRF-24236/19 | Config 3 |
|  | | | | |

3BT / 4BT Series

| STANDARD CONFIGURATIONS | | | | |
|---|----------------------------|-----------------------|------------------------------|----------|
| 3BT-8 | Grounded Case Construction | Approx. wt. 0.4 grams | Conforms to MIL-PRF-24236/19 | Config 4 |
|  | | | | |
| 3BT-15 | PC Board Mount | Approx. wt. 0.4 grams | Conforms to MIL-PRF-24236/19 | Config 5 |
|  | | | | |
| 4BT-2 | Grounded Case Construction | Approx. wt. 0.9 grams | Conforms to MIL-PRF-24236/19 | Config 1 |
|  | | | | |
| Additional configurations available, contact Sensata Technologies for more information. All dimensions are nominal, (millimeters) / inches. | | | | |

3BT Series

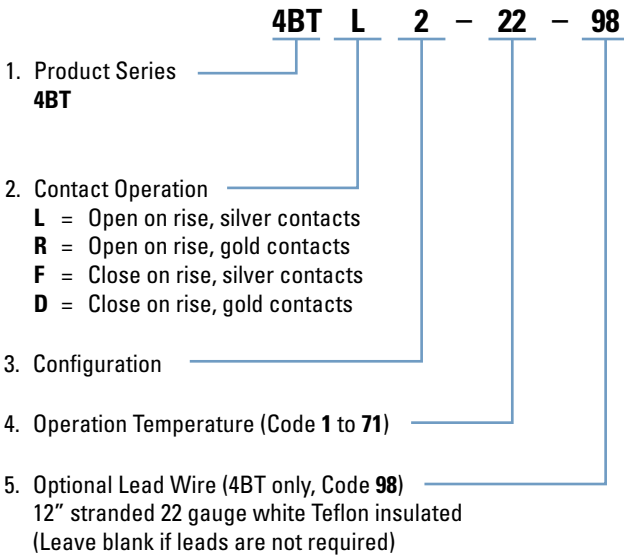
STANDARD 3BT PART NUMBER BUILDER



The example to the left is a 3BT-6 configuration, close on rise, gold contacts, close on rise at 82°C ± 4.4°C, open at 65°C ± 4.4°C.

4BT Series

STANDARD 4BT PART NUMBER BUILDER



The example to the left is a 4BT-2 configuration, open on rise, silver contacts, open on rise at 41°C ± 4.4°C, close at 24°C ± 4.4°C with 12" wire leads

5BT Series



Klixon® | 5BT Series
SPDT Hermetic Thermostats, -54°C to 204°C

FEATURES

- Single Pole / Double Throw (SPDT)
 - Preset temperature set points, non-adjustable calibration
 - High resistance to shock and vibration
- Hermetically sealed, vacuum baked and back-filled with nitrogen
 - Various mounting configurations available
 - Qualified to MIL-PRF-24236/24

INTRODUCTION

The Klixon® 5BT series thermostat is a high reliability, hermetically sealed thermal switch. The single pole, double throw design allows versatility and economy in providing two functions within the same device. Typically these Klixon switches are used to control and indicate at a preset temperature. One pole can control a cooling fan and the other pole can indicate impending danger. The 5BT thermostat is the ideal choice where quality and reliability in a double throw device are critical. Applications include data processing equipment, computers, electronic equipment, communication equipment, cooling and heating systems.

| SPECIFICATIONS | | | |
|---------------------------|---|-----------------------|------------------|
| Contact Ratings | Cycles | Voltage | Amps (resistive) |
| | 100,000 | 125VAC, 30VAC, 30 VDC | 2.0 |
| | 50,000 | 125VAC, 30VAC, 30 VDC | 3.0 |
| Contact Operations | SPDT (Single Pole, Double Throw) | | |
| Operating Temperature | -54°C to 204°C (-65°F to 400°F) | | |
| Dielectric Strength | 1250 VAC, rms, 60 cycles for 1 minute, terminal to case per MIL-STD-202, Method 301 | | |
| Contact Resistance | 0.050 ohms maximum per MIL-STD-202, Method 307 | | |
| Insulation Resistance | 100 megaohms min. at 500 VDC | | |
| Vibration | 10-2000 Hz, 10G, per MIL-STD-202, Method 204, Condition D | | |
| Shock | 60G, 11 milliseconds, per MIL-STD-202, Method 213 | | |
| Hermeticity | 1 x 10 ⁻⁸ atm cc/sec. maximum, per MIL-STD-202, Method 112, Condition C | | |
| Salt Spray | Per MIL-STD-202, Method 101, Condition B, 5% solution | | |
| Humidity | MIL-STD-202, Method 103, Condition A | | |
| Sand & Dust | MIL-STD-202, Method 110, Condition A | | |
| Weight | 6 grams (without bracket) to 7 grams (with bracket) | | |
| Ambient Temperature Range | -54°C to 232°C (-65°F to 450°F) Maximum ambient exposure while in the closed position is 93°C above contact closing temperature. | | |

5BT Series

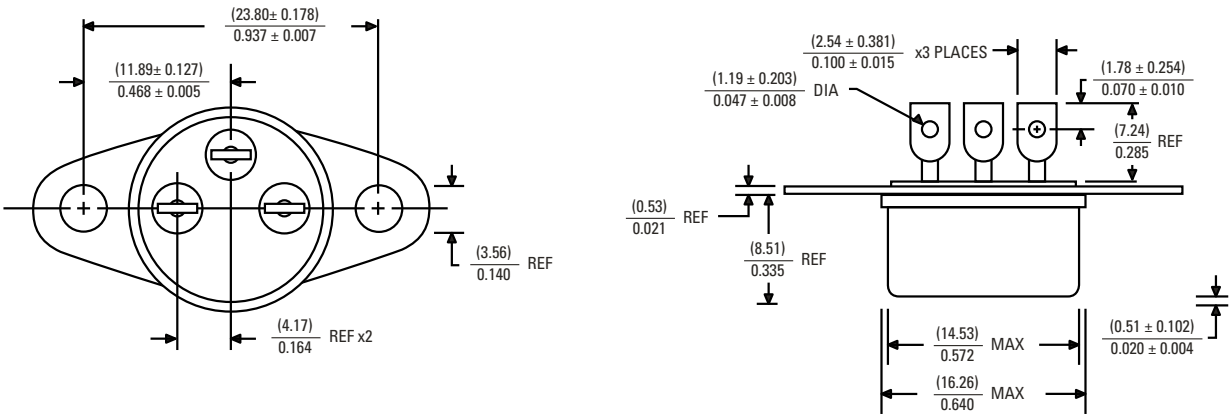
| STANDARD TEMPERATURE SETTINGS | | | | | |
|-------------------------------|------|--------------|----|-----------|------|
| OPERATING TEMPERATURE | | DIFFERENTIAL | | TOLERANCE | |
| °C | °F | °C | °F | ± °C | ± °F |
| - 54 | - 65 | 17 | 30 | 6 | 10 |
| - 40 | - 40 | 17 | 30 | 6 | 10 |
| -26 | - 15 | 17 | 30 | 6 | 10 |
| - 18 | 0 | 11 | 20 | 4.4 | 8 |
| - 12 | 10 | 11 | 20 | 4.4 | 8 |
| - 7 | 20 | 11 | 20 | 4.4 | 8 |
| - 1 | 30 | 11 | 20 | 4.4 | 8 |
| 4 | 40 | 11 | 20 | 4.4 | 8 |
| 10 | 50 | 11 | 20 | 4.4 | 8 |
| 16 | 60 | 11 | 20 | 4.4 | 8 |
| 21 | 70 | 11 | 20 | 4.4 | 8 |
| 27 | 80 | 11 | 20 | 4.4 | 8 |
| 32 | 90 | 11 | 20 | 4.4 | 8 |
| 38 | 100 | 11 | 20 | 4.4 | 8 |
| 43 | 110 | 11 | 20 | 4.4 | 8 |
| 49 | 120 | 11 | 20 | 4.4 | 8 |
| 54 | 130 | 11 | 20 | 4.4 | 8 |
| 60 | 140 | 11 | 20 | 4.4 | 8 |
| 66 | 150 | 11 | 20 | 4.4 | 8 |
| 71 | 160 | 11 | 20 | 4.4 | 8 |
| 77 | 170 | 11 | 20 | 4.4 | 8 |

| OPERATING TEMPERATURE | | DIFFERENTIAL | | TOLERANCE | |
|---|-----|--------------|------|-----------|------|
| °F | °C | °F | °C | ± °F | ± °C |
| 180 | 82 | 20 | 11.1 | 8 | 4.4 |
| 190 | 88 | 20 | 11.1 | 8 | 4.4 |
| 200 | 93 | 20 | 11.1 | 8 | 4.4 |
| 210 | 99 | 20 | 11.1 | 8 | 4.4 |
| 220 | 104 | 20 | 11.1 | 8 | 4.4 |
| 230 | 110 | 20 | 11.1 | 8 | 4.4 |
| 240 | 116 | 20 | 11.1 | 8 | 4.4 |
| 250 | 121 | 20 | 11.1 | 8 | 4.4 |
| 260 | 127 | 20 | 11.1 | 8 | 4.4 |
| 270 | 132 | 20 | 11.1 | 8 | 4.4 |
| 280 | 138 | 20 | 11.1 | 8 | 4.4 |
| 290 | 143 | 20 | 11.1 | 8 | 4.4 |
| 300 | 149 | 20 | 11.1 | 8 | 4.4 |
| 310 | 154 | 25 | 13.9 | 10 | 5.6 |
| 320 | 160 | 25 | 13.9 | 10 | 5.6 |
| 330 | 166 | 25 | 13.9 | 10 | 5.6 |
| 340 | 171 | 25 | 13.9 | 10 | 5.6 |
| 350 | 177 | 25 | 13.9 | 10 | 5.6 |
| 375 | 191 | 35 | 19.4 | 12 | 6.7 |
| 400 | 204 | 35 | 19.4 | 12 | 6.7 |
| Consult factory for additional temperatures | | | | | |

5BT Series

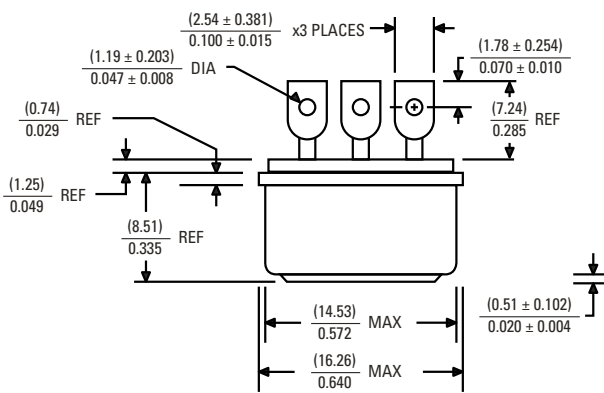
STANDARD CONFIGURATIONS

| | | | |
|--------------|----------------------|----------------------------------|----------------------------|
| 5BT-6 | Top Mounting Bracket | SPDT (Single Pole, Double Throw) | Conforms to MIL-S-24236/24 |
|--------------|----------------------|----------------------------------|----------------------------|

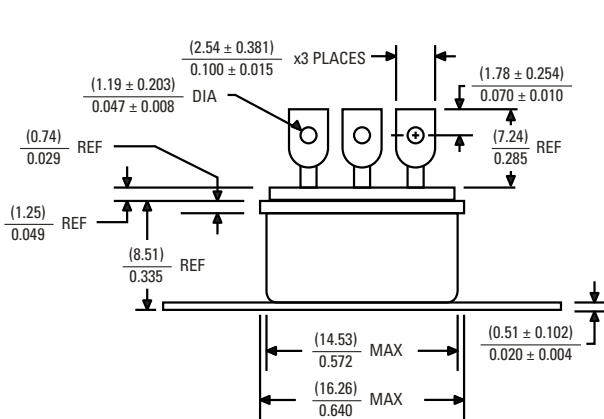


Additional configurations available, contact Sensata Technologies for more information.

| | | | | | |
|--------------|-----------------------------|--|----------------------------------|--|----------------------------|
| 5BT-4 | Flattened Pierced Terminals | | SPDT (Single Pole, Double Throw) | | Conforms to MIL-S-24236/24 |
|--------------|-----------------------------|--|----------------------------------|--|----------------------------|

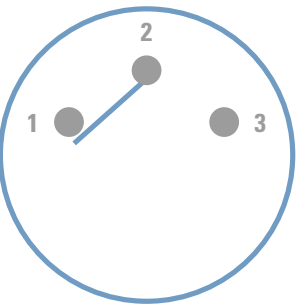


| | | | |
|--------------|-----------------------|----------------------------------|----------------------------|
| 5BT-5 | Surface Mount Bracket | SPDT (Single Pole, Double Throw) | Conforms to MIL-S-24236/24 |
|--------------|-----------------------|----------------------------------|----------------------------|



5BT-7 has similar construction, but with pin type terminals

HIGH TEMPERATURE CONTACT POSITION



Terminals 1 & 2 are closed and terminals 2 & 3 are open at the high temperature settings

M1 and 11041 Series



Klixon® | M1 and 11041 Series

½" Disc Hermetic Thermostats, -54°C to 288°C, SPST

FEATURES

- Single Pole / Single Throw (SPST)
- Preset temperature set points, non-adjustable calibration
- High resistance to shock and vibration
- Hermetically sealed, vacuum baked and back-filled with nitrogen
- Various mounting configurations available
- Qualified to MIL-PRF-24236/1

INTRODUCTION

The Klixon® M1/11041 series of thermostats are engineered for exceptional vibration and shock resistance to provide reliable switching in the most demanding applications. Prior to the final weld, finished assemblies are vacuum baked and back-filled with dry nitrogen. The inert, dry atmosphere eliminates moisture and other volatilizes to prevent condensation at low temperatures or possible contact contamination at high temperatures. This back-fill also improves the dielectric characteristics of the device and prevents oxidation of the contacts. The M1 thermostat is the ideal choice where quality and reliability are paramount.

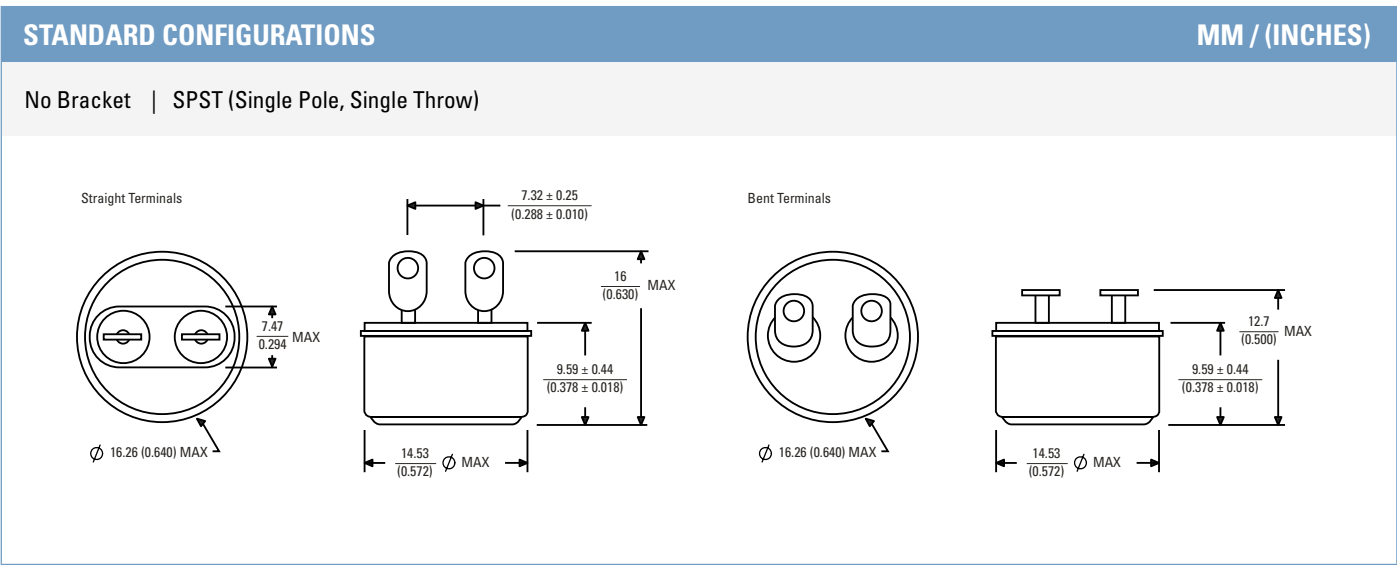
| SPECIFICATIONS | | | | |
|-----------------------------|--|---------------|----------|----------|
| Contact Ratings (Resistive) | Cycles | 30VDC / 30VAC | 125VAC | 250VAC |
| | 100,000 | 5.0 amps | 2.0 amps | 1.0 amps |
| | 50,000 | 5.5 amps | 3.0 amps | 1.5 amps |
| | 25,000 | 6.0 amps | 4.0 amps | 2.0 amps |
| | 10,000 | 6.5 amps | 5.0 amps | 2.5 amps |
| | 5,000 | 7.0 amps | 6.0 amps | 3.0 amps |
| Operating Temperature | -54°C to 288°C (-65°F to 550°F) | | | |
| Dielectric Strength | 1250 VAC, rms (root mean square), 60 cycles for 1 minute, terminal to case per MIL-STD-202, Method 301 | | | |
| Contact Resistance | 0.050 ohms maximum per MIL-STD-202, Method 307 | | | |
| Insulation Resistance | 100 megohms min. at 500 VDC | | | |
| Vibration | 5-2000 Hz, 20G, per MIL-STD-202, Method 204, Condition D (monitored) | | | |
| | 5-1000 Hz, 100G, per MIL-STD-202, Method 204, Condition D (unmonitored) | | | |
| | 1000-2000 Hz, 50G, per MIL-STD-202, Method 204, Condition D (unmonitored) | | | |
| Shock | 100G, 6 milliseconds, per MIL-STD-202, Method 213 | | | |
| Hermeticity | 1 x 10 ⁻⁸ atm cc/sec. maximum, per MIL-STD-202, Method 112, Condition C | | | |
| Salt Spray | Per MIL-STD-202, Method 101, Condition B, 5% solution | | | |
| Average Weight | 4.8 grams (without bracket) to 5.9 grams (with bracket) | | | |
| Ambient Temperature Range | -62°C to 288°C (-80°F to +550°F) | | | |
| | Maximum ambient exposure while in the closed position is 93°C above contact closing temperature. | | | |

M1 and 11041 Series

| STANDARD TEMPERATURE SETTINGS | | | | | |
|-------------------------------|------|--------------|----|-----------|------|
| OPERATING TEMPERATURE | | DIFFERENTIAL | | TOLERANCE | |
| °C | °F | °C | °F | ± °C | ± °F |
| - 54 | - 65 | 17 | 30 | 6 | 10 |
| - 40 | - 40 | 17 | 30 | 6 | 10 |
| -26 | - 15 | 17 | 30 | 6 | 10 |
| - 18 | 0 | 11 | 20 | 3 | 5 |
| - 12 | 10 | 11 | 20 | 3 | 5 |
| - 7 | 20 | 11 | 20 | 3 | 5 |
| - 1 | 30 | 11 | 20 | 3 | 5 |
| 4 | 40 | 11 | 20 | 3 | 5 |
| 10 | 50 | 11 | 20 | 3 | 5 |
| 16 | 60 | 11 | 20 | 3 | 5 |
| 21 | 70 | 11 | 20 | 3 | 5 |
| 27 | 80 | 11 | 20 | 3 | 5 |
| 32 | 90 | 11 | 20 | 3 | 5 |
| 38 | 100 | 11 | 20 | 3 | 5 |
| 43 | 110 | 11 | 20 | 3 | 5 |
| 49 | 120 | 11 | 20 | 3 | 5 |
| 54 | 130 | 11 | 20 | 3 | 5 |
| 60 | 140 | 11 | 20 | 3 | 5 |
| 66 | 150 | 11 | 20 | 3 | 5 |
| 71 | 160 | 11 | 20 | 3 | 5 |
| 77 | 170 | 11 | 20 | 3 | 5 |
| 82 | 180 | 11 | 20 | 3 | 5 |
| 88 | 190 | 11 | 20 | 3 | 5 |
| 93 | 200 | 11 | 20 | 3 | 5 |

| OPERATING TEMPERATURE | | DIFFERENTIAL | | TOLERANCE | |
|---|-----|--------------|----|-----------|------|
| °C | °F | °C | °F | ± °C | ± °F |
| 99 | 210 | 17 | 30 | 4.4 | 8 |
| 104 | 220 | 17 | 30 | 4.4 | 8 |
| 110 | 230 | 17 | 30 | 4.4 | 8 |
| 116 | 240 | 17 | 30 | 4.4 | 8 |
| 121 | 250 | 17 | 30 | 4.4 | 8 |
| 127 | 260 | 17 | 30 | 4.4 | 8 |
| 132 | 270 | 17 | 30 | 4.4 | 8 |
| 138 | 280 | 17 | 30 | 4.4 | 8 |
| 143 | 290 | 17 | 30 | 4.4 | 8 |
| 149 | 300 | 17 | 30 | 4.4 | 8 |
| 154 | 310 | 22 | 40 | 7 | 12 |
| 160 | 320 | 22 | 40 | 7 | 12 |
| 166 | 330 | 22 | 40 | 7 | 12 |
| 171 | 340 | 22 | 40 | 7 | 12 |
| 177 | 350 | 22 | 40 | 7 | 12 |
| 191 | 375 | 22 | 40 | 7 | 12 |
| 204 | 400 | 22 | 40 | 7 | 12 |
| 218 | 425 | 22 | 40 | 7 | 12 |
| 232 | 450 | 22 | 40 | 7 | 12 |
| 246 | 475 | 39 | 70 | 14 | 25 |
| 260 | 500 | 39 | 70 | 14 | 25 |
| 274 | 525 | 39 | 70 | 14 | 25 |
| 288 | 550 | 39 | 70 | 14 | 25 |
| Consult factory for additional temperatures | | | | | |

M1 and 11041 Series



NOTE: Stud mount, surface and top mounting brackets are available. Dimensions listed are for reference only. Please contact Sensata for more detailed envelope drawings.

Application areas of Precision Products



M2 Series



Klixon® | M2 Series
Narrow Differential Thermostats, -18°C to 149°C, SPST

FEATURES

- Low profile, narrow differential
 - Hermetically sealed, vacuum baked and back-filled with nitrogen
 - Single Pole / Single Throw (SPST)
 - High resistance to shock and vibration
- Preset temperature set points, non-adjustable calibration
 - Qualified to MIL-PRF-24236/20, S-311-641
 - On NASA S-311-664 QPL

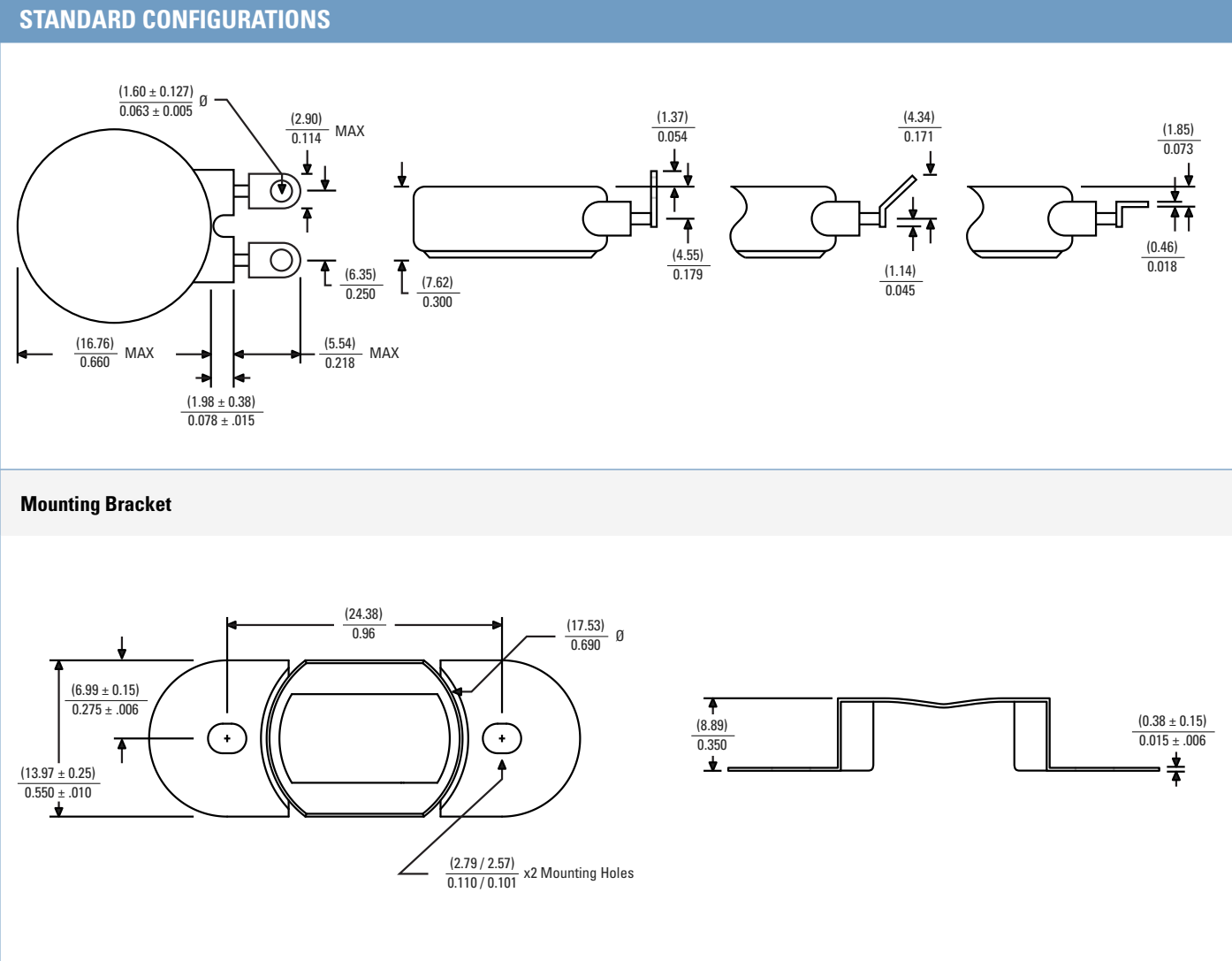
INTRODUCTION

The Klixon® M2 series of thermostats are engineered for exceptional vibration and shock resistance to provide reliable switching in a low-profile, narrow differential package for the most demanding applications. Prior to the final weld, finished assemblies are vacuum baked and back-filled with dry nitrogen. The inert, dry atmosphere eliminates moisture and other volatilizes to prevent condensation at low temperatures or possible contact contamination at high temperatures. This back-fill also improves the dielectric characteristics of the device and prevents oxidation of the contacts. The M2 thermostat is the ideal choice where quality and reliability are paramount. Applications include: airplane wing de-icing systems, satellite heaters, aircraft controls, warning devices, and electronic device overheat protection.

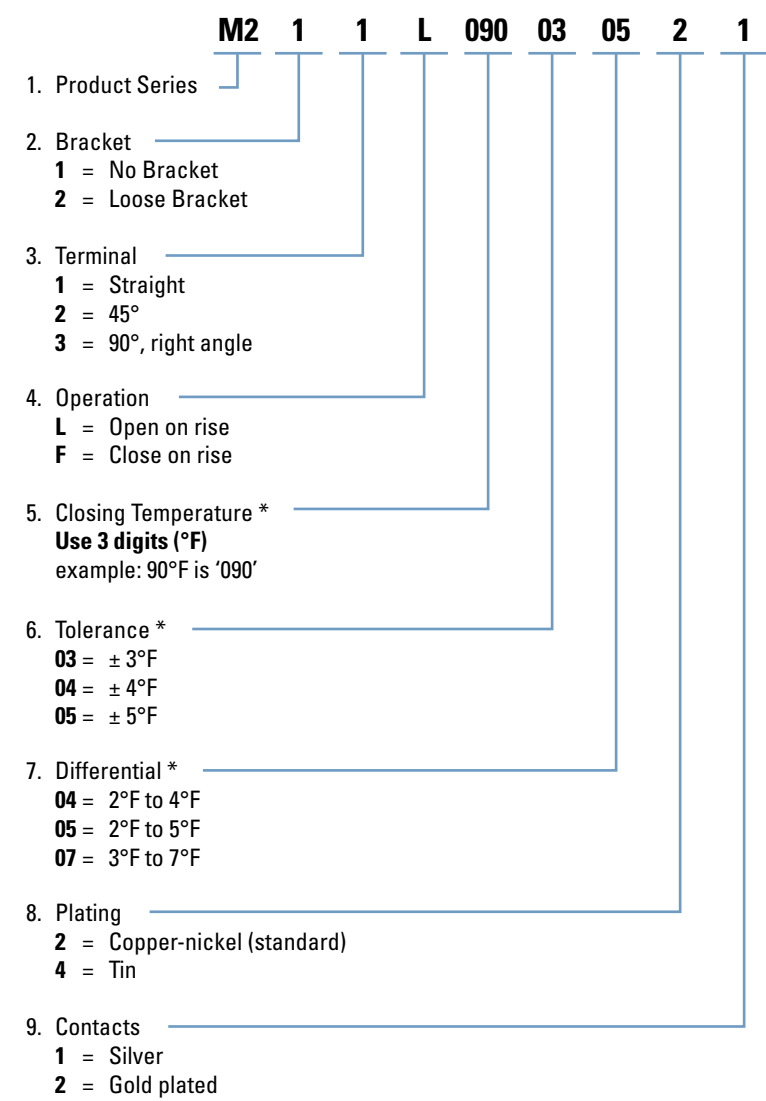
| SPECIFICATIONS | | | |
|-----------------------------|---|---------------------------|--------------------|
| Contact Ratings (Resistive) | Cycles 250,000 | 30VDC / 30VAC 2.0 amps | 120VAC 2.0 amps |
| Operating Temperature | -18°C to 149°C (0°F to 300°F) | | |
| Dielectric Strength | 1250 VAC, rms, 60 cycles for 1 minute, terminal to case per MIL-STD-202, Method 301 | | |
| Contact Resistance | 0.050 ohms maximum per MIL-STD-202, Method 307 | | |
| Vibration | 10-2000 Hz, 10G, per MIL-STD-202, Method 204, Condition D (monitored) | | |
| Shock | 100G, 6 milliseconds, per MIL-STD-202, Method 213 | | |
| Hermeticity | 1 x 10 ⁻⁸ atm cc/sec. maximum, per MIL-STD-202, Method 112, Condition C | | |
| Salt Spray | Per MIL-STD-202, Method 101, Condition B, 5% solution | | |
| Average Weight | 5.4 grams (average) | | |
| Ambient Temperature Range | -54°C to 204°C (-65°F to +400°F) <i>Maximum ambient exposure for close on rise devices is 38°C above contact operating temperature, for open on rise devices it is 38°C below contact operating temperature.</i> | | |

M2 Series

| STANDARD TEMPERATURE SETTINGS | | | |
|---|----------------------------------|---------------|-----------------|
| CLOSING TEMPERATURE RANGE | OPENING TEMPERATURE DIFFERENTIAL | TOLERANCE | |
| | | Standard | Special |
| 17°C to 121°C (0°F to 250°F) | 1°C to 3°C (2°F to 5°F) | ± 2°C (± 4°F) | ± 1.7°C (± 3°F) |
| 122°C to 149°C (251°F to 300°F) | 2°C to 4°C (3°F to 7°F) | ± 3°C (± 5°F) | ± 2°C (± 4°F) |
| The standard operating temperatures, differential and tolerances are shown in this table, but can be customized to meet your specific requirements. | | | |



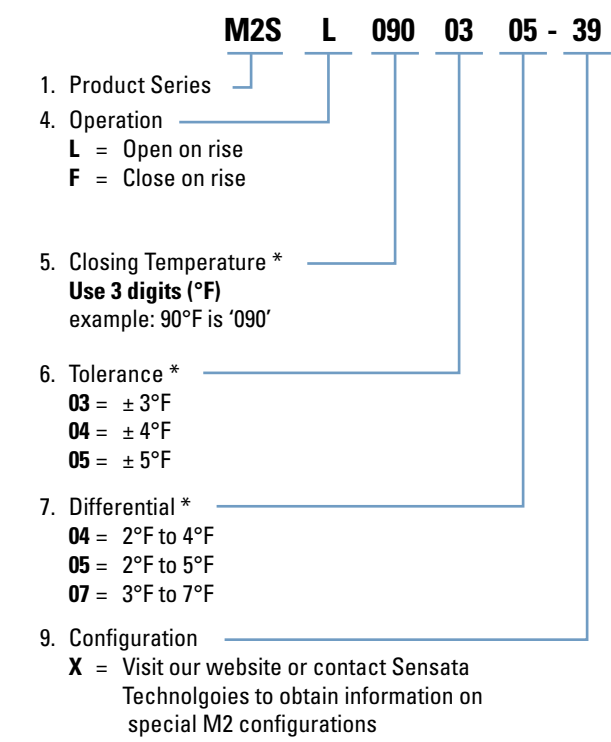
STANDARD M2 PART NUMBER BUILDER



* See temperature table for standard tolerances / differentials

Example is a M2 series, no bracket, straight terminals, open on rise at 90°F ± 3°F with 2°F to 5°F differential, copper-nickel plating, silver contacts

SPECIAL M2 PART NUMBER BUILDER



4344 Series



KLIXON® | 4344 Series
1/2" Disc Hermetic Thermostats
-54°C to 288°C, SPST

FEATURES

- Single Pole / Single Throw (SPST)
 - Preset temperature set points, non-adjustable calibration
 - High resistance to shock and vibration
 - Max resistive load: 7 amps
- Hermetically sealed, welded steel construction
 - Various mounting configurations available, including probe, strap-mount or immersion thermostat
 - Canadian-UL (UL File #34618), CSA (File #LR24458)

INTRODUCTION

The Klixon® 4344 series of thermostats are engineered with a snap-acting bimetal dis, producing a crisp, positive switching action. The standard 4344 comes copper-nickel plated with silver contacts. Other plating finishes are available upon request.

| SPECIFICATIONS | | | | |
|----------------------------------|---|----------------------------|----------------------------|----------|
| Contact Ratings (Resistive) | Cycles | 30VDC / 30VAC | 125VAC | 250VAC |
| | 100,000 | 5.0 amps | 2.5 amps | 1.0 amps |
| | 50,000 | 5.5 amps | 3.0 amps | 1.5 amps |
| | 25,000 | 6.0 amps | 4.0 amps | 2.0 amps |
| | 10,000 | 6.5 amps | 5.0 amps | 2.5 amps |
| | 5,000 | 7.0 amps | 6.0 amps | 3.0 amps |
| Gold Contact Ratings (Resistive) | 30VDC / 30VAC 500 mA and below | 115VAC 200 mA and below | 220VAC 100 mA and below | |
| Operating Temperature | -54°C to 288°C (-65°F to 550°F) | | | |
| Dielectric Strength | 1250 VAC, rms, 60 cycles for 1 minute, terminal to case per MIL-STD-202, Method 301 | | | |
| Contact Resistance | 0.050 ohms maximum per MIL-STD-202, Method 307 | | | |
| Vibration | 5-2000 Hz, 20G, per MIL-STD-202, Method 204, Condition D (unmonitored) | | | |
| Shock | 100G, 6 milliseconds, per MIL-STD-202, Method 213 | | | |
| Hermeticity | 1 x 10 ⁻⁵ atm cc/sec. maximum, per MIL-STD-202, Method 112, Condition C | | | |
| Salt Spray | Per MIL-STD-202, Method 101, Condition B, 5% solution | | | |
| Average Weight | 4.8 grams (without bracket) to 5.9 grams (with bracket) | | | |
| Ambient Temperature Range | -62°C to 288°C (-80°F to +550°F) <i>Maximum ambient exposure while in the closed position is 93°C above contact closing temperature.</i> | | | |
| Electrical Ratings | 720 VA, 110-600 VAC, break but not make, ungrounded cup* 360 VA, 600 VAC, make and break, ungrounded cup 125 VA Pilot Duty, 24 to 240 VAC, make and break, grounded or ungrounded cup <i>*At this rating, suitable as a control circuit, temperature limiting device for hazardous location motors and generators.</i> | | | |

4344 Series

| STANDARD TEMPERATURE SETTINGS | | | | | |
|-------------------------------|------|--------------|----|-----------|------|
| OPERATING TEMPERATURE | | DIFFERENTIAL | | TOLERANCE | |
| °C | °F | °C | °F | ± °C | ± °F |
| - 54 | - 65 | 17 | 30 | 6 | 10 |
| - 40 | - 40 | 17 | 30 | 6 | 10 |
| -26 | - 15 | 17 | 30 | 6 | 10 |
| - 18 | 0 | 11 | 20 | 3 | 5 |
| - 12 | 10 | 11 | 20 | 3 | 5 |
| - 7 | 20 | 11 | 20 | 3 | 5 |
| - 1 | 30 | 11 | 20 | 3 | 5 |
| 4.4 | 40 | 11 | 20 | 3 | 5 |
| 10 | 50 | 11 | 20 | 3 | 5 |
| 16 | 60 | 11 | 20 | 3 | 5 |
| 21 | 70 | 11 | 20 | 3 | 5 |
| 27 | 80 | 11 | 20 | 3 | 5 |
| 32 | 90 | 11 | 20 | 3 | 5 |
| 38 | 100 | 11 | 20 | 3 | 5 |
| 43 | 110 | 11 | 20 | 3 | 5 |
| 49 | 120 | 11 | 20 | 3 | 5 |
| 54 | 130 | 11 | 20 | 3 | 5 |
| 60 | 140 | 11 | 20 | 3 | 5 |
| 66 | 150 | 11 | 20 | 3 | 5 |
| 71 | 160 | 11 | 20 | 3 | 5 |
| 77 | 170 | 11 | 20 | 3 | 5 |
| 82 | 180 | 11 | 20 | 3 | 5 |
| 88 | 190 | 11 | 20 | 3 | 5 |
| 93 | 200 | 11 | 20 | 3 | 5 |

| OPERATING TEMPERATURE | | DIFFERENTIAL | | TOLERANCE | |
|---|-----|--------------|----|-----------|------|
| °C | °F | °C | °F | ± °C | ± °F |
| 99 | 210 | 17 | 30 | 4.4 | 8 |
| 104 | 220 | 17 | 30 | 4.4 | 8 |
| 110 | 230 | 17 | 30 | 4.4 | 8 |
| 116 | 240 | 17 | 30 | 4.4 | 8 |
| 121 | 250 | 17 | 30 | 4.4 | 8 |
| 127 | 260 | 17 | 30 | 4.4 | 8 |
| 132 | 270 | 17 | 30 | 4.4 | 8 |
| 138 | 280 | 17 | 30 | 4.4 | 8 |
| 143 | 290 | 17 | 30 | 4.4 | 8 |
| 149 | 300 | 17 | 30 | 4.4 | 8 |
| 154 | 310 | 22 | 40 | 7 | 12 |
| 160 | 320 | 22 | 40 | 7 | 12 |
| 166 | 330 | 22 | 40 | 7 | 12 |
| 171 | 340 | 22 | 40 | 7 | 12 |
| 177 | 350 | 22 | 40 | 7 | 12 |
| 191 | 375 | 22 | 40 | 7 | 12 |
| 204 | 400 | 22 | 40 | 7 | 12 |
| 218 | 425 | 22 | 40 | 7 | 12 |
| 232 | 450 | 22 | 40 | 7 | 12 |
| 246 | 475 | 39 | 70 | 14 | 25 |
| 260 | 500 | 39 | 70 | 14 | 25 |
| 274 | 525 | 39 | 70 | 14 | 25 |
| 288 | 550 | 39 | 70 | 14 | 25 |
| Consult factory for additional temperatures | | | | | |

4391 Series



KLIXON® | 4391 Series
High Capacity, Hermetically Sealed Thermostats
SPST or SPDT, Manual or Auto Reset

FEATURES

- Single Pole / Single Throw (SPST) or Single Pole / Double Throw (SPDT)
 - Automatic or manual reset
 - Preset temperature set points, non-adjustable calibration
 - High current capacity, environmentally sealed
- Normally open or closed
 - Various mounting brackets are available
 - Capacity optional overmold

INTRODUCTION

The Klixon® 4391 series snap-acting disc type control is designed to provide crisp, positive switching action. The 4391 is the most versatile of the Klixon precision thermostats with its available SPST or SPDT switching, automatic or manual reset, and overmold options.

| SPECIFICATIONS | | | | |
|-----------------------------|---|---------------|-----------|----------|
| Contact Ratings (Resistive) | Cycles | 30VDC / 30VAC | 125VAC | 250VAC |
| | 100,000 | 10.0 amps | 4.0 amps | 2.0 amps |
| | 50,000 | 11.0 amps | 6.0 amps | 3.0 amps |
| | 25,000 | 12.0 amps | 8.0 amps | 4.0 amps |
| | 10,000 | 13.0 amps | 10.0 amps | 5.0 amps |
| | 5,000 | 14.0 amps | 12.0 amps | 6.0 amps |
| Operating Temperature | Non-Overmold: -18°C to 232°C (0°F to 450°F) Silicone Overmold: -18°C to 204°C (0°F to 400°F) | | | |
| Dielectric Strength | 1250 VAC, rms, 60 cycles for 1 minute (1500VAC available upon request) | | | |
| Vibration | 5-500 Hz, 3G (std), 5-500, 5G (high vibration construction option) | | | |
| Hermeticity | 1 x 10 ⁻⁵ atm cc/sec. maximum | | | |
| Ambient Temperature Range | Non-Overmold: -54°C to 232°C (-65°F to 450°F) Silicone Overmold: -51°C to 204°C (-60°F to 400°F) | | | |
| Weight | Non-Overmold: 21 grams w/ Silicone Overmold: 56 grams | | | |

4391 Series

| STANDARD TEMPERATURE SETTINGS | | | | | | | | |
|--|---|----|-----------|------|---|----|-----------|------|
| OPERATING TEMPERATURE | SPST (Single Pole / Single Throw), Standard Vibration | | | | SPDT (Single Pole / Double Throw), High Vibration | | | |
| | DIFFERENTIAL | | TOLERANCE | | DIFFERENTIAL | | TOLERANCE | |
| | °C | °F | ± °C | ± °F | °C | °F | ± °C | ± °F |
| -18 to 93°C (0 to 200°F) | 8 | 15 | 3 | 5 | 14 | 25 | 4.4 | 8 |
| -99 to 149°C (210 to 300°F) | 14 | 25 | 4 | 7 | 17 | 30 | 6 | 10 |
| -160 to 177°C (325 to 350°F) | 25 | 45 | 7 | 12 | 25 | 45 | 7 | 12 |
| -191 to 232°C * (375 to 450°F) auto reset only | 33 | 60 | 8 | 15 | 14 | 60 | 8 | 15 |
| Standard temperature set points are at every 5°F degrees (for example, 320°F, 325°F, 330°F). Consult Sensata Technologies if a custom operating temperature range is required. * Available in automatic reset only | | | | | | | | |

7BT2 Series



Klixon® | 7BT2 Series
High Capacity, Environmentally Sealed Thermostats
-1°C to 204°C, SPST

FEATURES

- Single Pole / Single Throw (SPST)
- Preset temperature set points, non-adjustable calibration
- High current capacity, environmentally sealed
- Max resistive load: 15 amps
- UL, Canadian-UL (UL File #34618), KEMA (ENEC, file #2018218.03)

INTRODUCTION

The Klixon® 7BT2 thermostat is a snap-acting disc type control designed to provide crisp, positive switching action. The bimetal disc and electrical contacts are enclosed in a stainless steel cup to provide protection from dust and other foreign particles. The 7BT2 is available in a variety of configurations, making it a versatile candidate for your thermal protection needs.

| SPECIFICATIONS | | | | |
|--|---|------------------|----------------|--------------|
| Contact Ratings (Resistive, Max Temp 400°F) | Cycles 100,000 | 120 VAC 15.0A | 240VAC 7.5A | 30VDC 10A |
| Operating Temperature | -1°C to 204°C (30°F to 400°F) | | | |
| Dielectric Strength | 2000 VAC, rms, 60 cycles for 1 minute, terminal to case | | | |
| Ambient Temperature Range | -29°C to 204°C (-20°F to +400°F) | | | |

STANDARD PART NUMBER BUILDER

7BT2

L

3

D - 36 - 2

1. Product Series

2. Contact Operation
L = Open on Rise
F = Close on Rise

3. Mounting
2 = No mounting
3 = Loose bottom bracket
4 = Fixed top flange
6 = Stud, 6-32 x 0.187

4. Terminal
A = Solder type, flat
B = 3/16" QC, outset at 90 degrees
C = Weld type, flat
D = Weld type, outset at 90 degrees
F = 1/4" QC, outset at 90 degrees
G = 1/4" QC, flat

5. Operating Temperature Dash #
See temperature tables for your specific number
(other temperature setting available on request)

6. Wire Lead
0 = none
1 = 6" (standard)
2 = 12" (standard)
3 = 18" (standard)
4 = 24" (standard)
5 = 30"
6 = 36"
...etc...
Lengths are in increments of 6 inches

7BT2 Series

| STANDARD TEMPERATURE SETTINGS | | | | | | |
|-------------------------------|-----------------------|-----|--------------|----|-----------|------|
| DASH # | OPERATING TEMPERATURE | | DIFFERENTIAL | | TOLERANCE | |
| | °C | °F | °C | °F | ± °C | ± °F |
| 1 | 49 | 120 | 11 | 20 | 3 | 5 |
| 2 | 52 | 125 | 11 | 20 | 3 | 5 |
| 3 | 54 | 130 | 11 | 20 | 3 | 5 |
| 4 | 57 | 135 | 11 | 20 | 3 | 5 |
| 5 | 60 | 140 | 11 | 20 | 3 | 5 |
| 6 | 63 | 145 | 11 | 20 | 3 | 5 |
| 7 | 66 | 150 | 11 | 20 | 3 | 5 |
| 8 | 68 | 155 | 11 | 20 | 3 | 5 |
| 9 | 71 | 160 | 11 | 20 | 3 | 5 |
| 10 | 74 | 165 | 11 | 20 | 3 | 5 |
| 11 | 77 | 170 | 11 | 20 | 3 | 5 |
| 12 | 79 | 175 | 11 | 20 | 3 | 5 |
| 13 | 82 | 180 | 11 | 20 | 3 | 5 |
| 14 | 85 | 185 | 11 | 20 | 3 | 5 |
| 15 | 88 | 190 | 11 | 20 | 3 | 5 |
| 16 | 91 | 195 | 11 | 20 | 3 | 5 |
| 17 | 93 | 200 | 11 | 20 | 3 | 5 |
| 18 | 96 | 205 | 17 | 30 | 4.4 | 8 |
| 19 | 99 | 210 | 17 | 30 | 4.4 | 8 |
| 20 | 102 | 215 | 17 | 30 | 4.4 | 8 |
| 21 | 104 | 220 | 17 | 30 | 4.4 | 8 |
| 22 | 107 | 225 | 17 | 30 | 4.4 | 8 |
| 23 | 110 | 230 | 17 | 30 | 4.4 | 8 |
| 24 | 113 | 235 | 17 | 30 | 4.4 | 8 |
| 25 | 116 | 240 | 17 | 30 | 4.4 | 8 |
| 26 | 118 | 245 | 17 | 30 | 4.4 | 8 |

| DASH # | OPERATING TEMPERATURE | | DIFFERENTIAL | | TOLERANCE | |
|--|-----------------------|-----|--------------|----|-----------|------|
| | °C | °F | °C | °F | ± °C | ± °F |
| 27 | 121 | 250 | 17 | 30 | 4.4 | 8 |
| 28 | 124 | 255 | 17 | 30 | 4.4 | 8 |
| 29 | 127 | 260 | 17 | 30 | 4.4 | 8 |
| 30 | 129 | 265 | 17 | 30 | 4.4 | 8 |
| 31 | 132 | 270 | 17 | 30 | 4.4 | 8 |
| 32 | 135 | 275 | 17 | 30 | 4.4 | 8 |
| 33 | 138 | 280 | 17 | 30 | 4.4 | 8 |
| 34 | 141 | 285 | 17 | 30 | 4.4 | 8 |
| 35 | 143 | 290 | 17 | 30 | 4.4 | 8 |
| 36 | 146 | 295 | 17 | 30 | 4.4 | 8 |
| 37 | 149 | 300 | 17 | 30 | 4.4 | 8 |
| 38 | 152 | 305 | 22 | 40 | 7 | 12 |
| 39 | 154 | 310 | 22 | 40 | 7 | 12 |
| 40 | 157 | 315 | 22 | 40 | 7 | 12 |
| 41 | 160 | 320 | 22 | 40 | 7 | 12 |
| 42 | 163 | 325 | 22 | 40 | 7 | 12 |
| 43 | 166 | 330 | 22 | 40 | 7 | 12 |
| 44 | 168 | 335 | 22 | 40 | 7 | 12 |
| 45 | 171 | 340 | 22 | 40 | 7 | 12 |
| 46 | 174 | 345 | 22 | 40 | 7 | 12 |
| 47 | 177 | 350 | 22 | 40 | 7 | 12 |
| For 30° F to 110° F and 360° F to 400° F, consult factory for a customer specific dash # | | | | | | |



Klixon® | 6786 Series
½” Disc, Low Profile Thermostats
-29°C to 177°C, SPST

FEATURES

- Single Pole / Single Throw (SPST)
 - Preset temperature set points, non-adjustable calibration
 - Normally open or normally closed
 - Max resistive load: 7 amps
- Environmentally sealed, low profile
 - Various mounting configurations available including brackets, studs, and with or without surface mounting brackets
 - UL recognized, Canadian-UL (UL File #34618)

INTRODUCTION

The Klixon® 6786 thermostat is a snap-acting disc type control designed to provide crisp, positive switching action for applications where maximum shock and vibration resistance is required. The Klixon snap-acting disc and fine silver electrical contacts are sealed in a stainless steel cup to provide protection from dust and other foreign particles. This construction also assures rapid thermal response plus dependable circuit operation at all times. The small size of the 6786 makes it particularly suitable where space and weight accommodations are limited.

| SPECIFICATIONS | | | | |
|-----------------------------|---|---------------|----------|----------|
| Contact Ratings (Resistive) | Cycles | 30VDC / 30VAC | 125VAC | 250VAC |
| | 100,000 | 5.0 amps | 2.0 amps | 1.0 amps |
| | 50,000 | 5.5 amps | 3.0 amps | 1.5 amps |
| | 25,000 | 6.0 amps | 4.0 amps | 2.0 amps |
| | 10,000 | 6.5 amps | 5.0 amps | 2.5 amps |
| | 5,000 | 7.0 amps | 6.0 amps | 3.0 amps |
| Operating Temperature | -29°C to 177°C (-20°F to 350°F) | | | |
| Dielectric Strength | 1250 VAC, rms, 60 cycles for 1 minute, terminal to case per MIL-STD-202, Method 301 | | | |
| Vibration | 10-500 Hz, 10G, per MIL-STD-202, Method 204, Condition A (unmonitored) | | | |
| Shock | 30G, 11 milliseconds | | | |
| Ambient Temperature Range | -54°C to 204°C (-65°F to +400°F) | | | |
| Average Weight | 2.5 grams | | | |

| STANDARD TEMPERATURE SETTINGS | | | | | |
|-------------------------------|------|--------------|----|-----------|------|
| OPERATING TEMPERATURE | | DIFFERENTIAL | | TOLERANCE | |
| °C | °F | °C | °F | ± °C | ± °F |
| -29 | - 20 | 17 | 30 | 6 | 10 |
| - 18 | 0 | 11 | 20 | 6 | 10 |
| - 12 | 10 | 11 | 20 | 6 | 10 |
| - 7 | 20 | 11 | 20 | 4.4 | 8 |
| - 1 | 30 | 11 | 20 | 4.4 | 8 |
| 4.4 | 40 | 11 | 20 | 4.4 | 8 |
| 10 | 50 | 11 | 20 | 4.4 | 8 |
| 16 | 60 | 11 | 20 | 4.4 | 8 |
| 21 | 70 | 11 | 20 | 4.4 | 8 |
| 27 | 80 | 11 | 20 | 4.4 | 8 |
| 32 | 90 | 11 | 20 | 4.4 | 8 |
| 38 | 100 | 11 | 20 | 4.4 | 8 |
| 43 | 110 | 11 | 20 | 4.4 | 8 |
| 49 | 120 | 11 | 20 | 4.4 | 8 |
| 54 | 130 | 11 | 20 | 4.4 | 8 |
| 60 | 140 | 11 | 20 | 4.4 | 8 |
| 66 | 150 | 11 | 20 | 4.4 | 8 |
| 71 | 160 | 11 | 20 | 4.4 | 8 |
| 77 | 170 | 11 | 20 | 4.4 | 8 |

| OPERATING TEMPERATURE | | DIFFERENTIAL | | TOLERANCE | |
|---|-----|--------------|----|-----------|------|
| °C | °F | °C | °F | ± °C | ± °F |
| 82 | 180 | 11 | 20 | 4.4 | 8 |
| 88 | 190 | 11 | 20 | 4.4 | 8 |
| 93 | 200 | 11 | 20 | 6 | 10 |
| 99 | 210 | 17 | 30 | 6 | 10 |
| 104 | 220 | 17 | 30 | 6 | 10 |
| 110 | 230 | 17 | 30 | 6 | 10 |
| 116 | 240 | 17 | 30 | 6 | 10 |
| 121 | 250 | 17 | 30 | 6 | 10 |
| 127 | 260 | 17 | 30 | 6 | 10 |
| 132 | 270 | 17 | 30 | 6 | 10 |
| 138 | 280 | 17 | 30 | 6 | 10 |
| 143 | 290 | 17 | 30 | 6 | 10 |
| 149 | 300 | 17 | 30 | 6 | 10 |
| 154 | 310 | 22 | 40 | 7 | 12 |
| 160 | 320 | 22 | 40 | 7 | 12 |
| 166 | 330 | 22 | 40 | 7 | 12 |
| 171 | 340 | 22 | 40 | 7 | 12 |
| 177 | 350 | 22 | 40 | 7 | 12 |
| Consult factory for additional temperatures | | | | | |

Probe Assemblies



Klixon® | Probe Assemblies
Custom Immersion-Type Thermostat Probes

FEATURES

- Various Klixon® thermostats in custom probe assemblies
- Preset temperature set points, non-adjustable calibration
- Normally open or normally closed
- Hermetically sealed (probe only)
- Extreme temperature, fast response, narrow differential or custom probe assembly configurations
- Qualified to MIL-S-24236, MIL-S-24236/2, MIL-S-24236/11, and MIL-S-24236/25 (order by MS number)

INTRODUCTION

To meet a wide range of application requirements, Klixon® probe-type thermostat packages are available in a variety of sizes, configurations, and thermal characteristics. Select from one of our existing designs, or specify custom requirements to suit your needs.

- **Extreme Temperature Probes:**
Constant speed drives, aircraft refrigeration systems, food processing equipment, and missile hydraulic systems often require protection from or indication of extreme high or low temperatures. These Klixon® snap-acting thermostat probes are designed to provide reliable, consistent performance over a long cycle life in the harshest of environments. These probes provide excellent shock and vibration resistance and operate as low as -54°C (-65°F) and as high as 288°C (550°F) and incorporate the reliable Klixon M1/11041 thermostat.
- **Fast Response Probes:**
Quick response to rapidly changing temperature is a virtue of the low thermal mass series of probe. The Klixon® 3BT Tiny Stat™ is located at the end of the probe for ultimate sensitivity. Quick response to rapidly changing temperatures is a virtue of the low thermal mass series probes.
- **Narrow Differential Control Probes:**
These thermostat probes accurately open and close with a narrow 1°C to 4.4°C (2°F to 8°F) differential, providing close temperature control in applications ranging from environmental to power tube coolant systems. Probe assembly incorporates the reliable Klixon® M2 thermostat.



Probe Assemblies

STANDARD PART NUMBER BUILDER

21542 - 03 - XXX - 01

1. Package Type

Extreme Temperature (M1 thermostat)

21542 = 3/4" - 16 thread w/ connector

21543 = 1/2" pipe thread w/ leads

21548 = 3/4" - 16 thread w/ leads

21549 = 1/2" pipe thread w/ connector

Narrow Differential (M2 thermostat)

21545 = 1/2" pipe thread w/ leads

21546 = 3/4" - 16 thread w/ connector

21547 = 3/4" - 16 thread w/ leads

21550 = 1/2" pipe thread w/ connector

Fast Response (3BT thermostat)

21544 = 1/8" pipe thread with leads

21557 = 1/8" pipe thread with connector

21561 = 7/16" - 20 thread with leads

21562 = 7/16" - 20 thread with connector

2. Probe Length

XX = value of 2 times the length of probe needed

Probes lengths available in 1/2" increments from 1" to 6", length measured from bottom of hex to tip of probe

For example, for a 1.5" probe, part number would require a 03

3. Operating Characteristics

XXX = 3-digit code to be assigned by Sensata Technologies based on the customers specific requirements for the thermostat within the assembly

4. Wire Lead

01 = 6"

02 = 12"

03 = 18"

...etc...

Lengths are in increments of 6 inches.

For connectors, please contact Sensata Technologies for the code

AT / KX Series



Klixon® | AT / KX Series
Precision Switches
-29°C to 177°C, SPST

AT FEATURES

- Meet the demands of low-level current switching applications
 - Various mechanical and electrical configurations available as standard or custom configurations
 - Actuation plungers of various shapes and materials available
- Multi-pole switch package options
 - Wiring can be supplied as flying leads or via a variety of standard connectors
 - Mounting via threaded bushings or side-plate design

KX FEATURES

- Hermetic seal provides exceptional operational freedom from environmental conditions
 - Compactly designed to fit small, narrow spaces
 - Available with either screw or solder lug type terminals
- Snap–acting sine switch provides exceptional resistance to shock and vibration
 - Embedded leads are available
 - Lead lengths can be supplied to customer requirements

INTRODUCTION

Due to its broad performance envelope, small size, and ability to be easily incorporated into a wide variety of packages, this is our most popular family of precision hermetic switches. Klixon® AT series switches are available as basic switches, basic switches with mounting brackets and actuators, or as switch packages. Packages are formed by configuring various electrical terminations, actuator means and physical construction around one or more basic switches. Since these sources are still far from exhaustive, please call if you need something you don’t see. (There are too many designs to include here.) We would also be pleased to consider new designs for custom packaging.

Within this family there are four basic switches: the AT, the 3AT, the 4AT, and the 10AT. Each has been optimized for particular performance characteristics and is capable of meeting the demands of low-level current switching applications.

The Klixon® KX Series hermetically sealed sine switch is a precision snap–acting device. It is designed for use in the aerospace industry and for other applications where operational freedom from environmental conditions is a requirement. (Performance chart.)

KX series switches are sealed within a one-piece steel case engineered to withstand extremely low or high ambient pressures. True hermetic sealing is achieved with a metal “wave type” diaphragm at the actuating lever. The actuating arm is keyed to hold the arm in alignment and to prevent damage to the diaphragm.

The switching element is the versatile Klixon® sine switch. This simple, one-piece element eliminates knife edges and high friction joints. Rigidly supported at both ends and accurately prestressed in tension, the sine switch features outstanding resistance to shock and vibration.

Klixon® switches have been used in a variety of aircraft, weapons systems, aircraft engine and aerospace applications for well over 30 years. A brief listing of typical applications include:

- Door interlock systems
 - Aircraft engine ignitions
 - Aircraft missile launcher position indication
 - External stores emergency jettison switches
 - Stowed / deployed indication for thrust reversers
- Safety ignition indication for military jet engines
 - Radar pod door switches
 - Tank/armored personnel carrier missile launcher switches
 - Tank gun turret position indication

AT / KX Series

| SPECIFICATIONS | | | | | | | |
|---|------|-------------------------------------|--------------|------------------------------------|--------------------------------------|------------------------------------|------------------------------------|
| | | AT | | 3AT | 4AT | 10AT | KX |
| Current Ratings (28VDC) | Res. | 3 amp | 1 amp | 1 amp | 3 amp | 4 amp | 10 amp |
| | Ind. | 1 amp | 0.5 amp | 0.5 amp | 1 amp | 1 amp | 5 amp |
| | Lamp | 1 amp | 0.5 amp | 0.5 amp | 1 amp | 2 amp | 3 amp |
| Min Life at Rated Load Cycles | | 25K | 50K | 25K | 25K | 25K | 25K |
| Min Mechanical Life Cycles | | 100K | | 100K | 50K | 50K | 25K |
| Ambient Temperature Range | | -54°C to 135°C (-65°F to 275°F) | | -54°C to 232°C (-65°F to 450°F) | -171°C to 135°C (-275°F to 275°F) | -65°C to 135°C (-85°F to 275°F) | -54°C to 135°C (-65°F to 275°F) |
| Dielectric Strength Terminal to Case VRMS Terminal to Terminal VRMS | | 1000 800 | | 500 500 | 1000 800 | 1000 800 | 1250 1250 |
| Max Leakage Std. cc He/Dec | | 1 x 10 ⁻⁸ | | | | | 1 x 10 ⁻⁶ |
| Shock | | 200G, 6 ms sawtooth | | | | | 100G |
| Vibration | | 65G, 10 - 2000Hz, .5 DA or 65 G RMS | | | | | 20G |
| Insulation Resistance @ 500VDC | | 100 megaohms | 100 megaohms | 100 megaohms | 100 megaohms | 100 megaohms | — |



2SE Series



Klixon® | 2SE Series
Solid-State Air Flow Sensors

FEATURES

- Solid–state design for improved reliability
 - SPST or SPDT configuration
 - Normally open or normally closed
- Commercial or military grades available
 - Low power dissipation (approximately 3 watts)
 - Excellent shock and vibration resistance

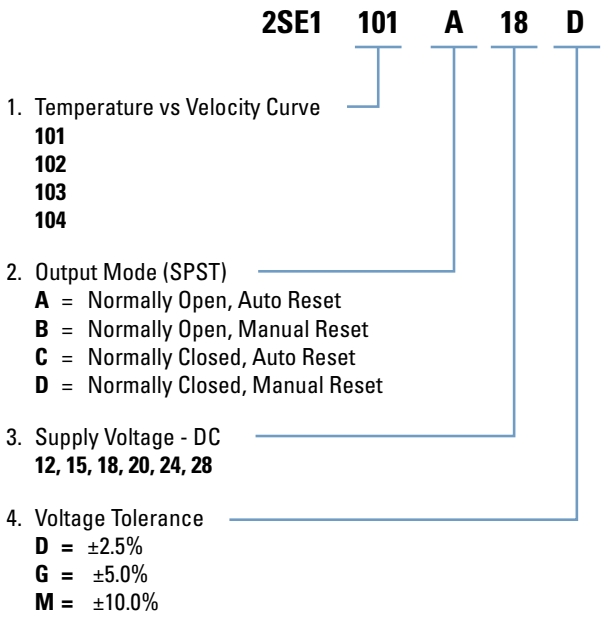
INTRODUCTION

Sensata is a world leader in the design and manufacture of air flow sensors. We build devices that are high-quality, dependable, and reasonably priced. We can customize Klixon® air flow sensors to meet your engineering needs. Our solid–state vane switch is ideal for recognizing loss or reduction of airflow in electronic equipment. Typically used in power supplies, data processing equipment, and large electronic cabinets.

- Unlike its electromechanical vane switch predecessor, our solid–state switch continues to provide reliable switching even in the dirtiest of environments. Klixon® air flow sensors are designed to recognize loss or reduction of airflow in:
- Power supplies
 - Data processing units
 - Commercial electronic equipment
 - Military electronic equipment

| SPECIFICATIONS | |
|---------------------------|---------------------|
| Supply Voltage | 30 VDC max |
| Switching Capacity | up to 400 milliamps |
| Operating Temperature | +10°C to +50°C |
| Ambient Temperature Range | up to 150°C |
| Life Cycles | 100,000 |
| Average Weight | 20 grams |

STANDARD PART NUMBER BUILDER



ACMP Series



Klixon® | ACMP Series
Single & Three-Phase Aircraft Motor Protectors

FEATURES

- Single and three-phase protection
 - Locked rotor protection
 - Neutral trap
- Thermal protection
 - Meets thermal protection requirements of MIL-M-7969, direct acting type, Method III

INTRODUCTION

Sensata motor protection for aircraft prevents hazards beyond the control of the manufacturer — hazards such as sustained overload and excessive temperatures. Since the protecting devices are sensitive to both temperature and current they inherently protect against a variety of abnormal conditions while allowing maximum motor output before shutdown. Motor life is extended by limiting the damaging temperatures to a designed level.

The Klixon® ACMP is basically a bimetallic thermostat with a built–in heating element which is installed in series with the motor winding. The actuating element is a Klixon® snap–acting thermal disc. The built–in heaters simulate winding temperatures caused by increases in current. This protector provides crisp, positive switching when the specified trip current is sustained for a specific duration at room temperature. The device will also actuate when an excessive ambient temperature condition occurs, providing protection against overheating conditions other than overload. Separately, the disc protects against excessive ambient temperature and the heaters protect against excessive current increases (as experienced during locked motor conditions). Together, the heaters and disc protect against any combination of overload and ambient conditions.

Inherent protection means that a protector is built into a motor and becomes an integral part of the system. For this reason, Klixon® protectors should only be applied by the motor manufacturer after detailed application tests to determine the heating characteristics of the motor under a full range of load and ambient conditions to verify the selected rating will meet the specific application requirements. Consult a sales correspondent at left for test samples.

| SPECIFICATIONS | | |
|----------------|----------|----------|
| Part Number | 28VDC | 120VAC |
| SKA | 16 amps | 16 amps |
| MKA | 50 amps | 50 amps |
| KA | 100 amps | 100 amps |
| SJE | 30 amps | 30 amps |
| MJE | 60 amps | 60 amps |
| BJE | 120 amps | 120 amps |

6PS Series



Klixon® | 6PS Series
Hermetic Stainless Steel Pressure Switch

FEATURES

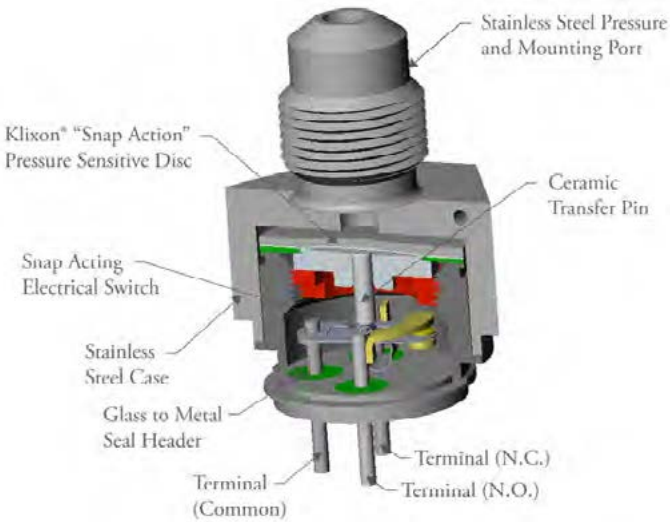
- Hermetically sealed per MIL-E-5400 paragraph 6.3.10
 - Covers actuation range of 45 to 700 PSIA
 - Maximum corrosion resistance under hostile conditions
 - 300 series stainless steel construction for all environment exposed parts
 - Stainless steel and brass construction for media exposed parts
- High vibration resistance
 - 8000 psi minimum burst pressure
 - SPDT switch configuration
 - Available in a wide range of standard and custom configurations

INTRODUCTION

The Klixon® 6PS series precision pressure switches are snap-acting, all-welded devices with hermetically sealed switch contacts. Our pressure switches were developed for applications in aerospace and electronics where high reliability and/or resistance to severe environments is required. To ensure maximum corrosion resistance under hostile conditions, all parts exposed to the pressure media and the environment are made of brass or 300 series stainless steel — no rubber parts are used.

Small and lightweight, 6PS Series switches can be mounted by their pressure ports alone, allowing maximum flexibility of design. Full contact force is maintained even during high shock and vibration—regardless of applied pressure—because the positive, snap-action disc works in tandem with snap-action switch contacts.

There are over 1,000 existing 6PS switch package designs. The 6PS is ideal for highly customized package and performance needs.



| PRESSURE SPECIFICATIONS | |
|---|--|
| Range of Actuation Pressure Settings | at STP from 45 PSIA to 700 PSIA |
| Range of Deactuation Pressure Settings | Standard : 60% to 85% of actuation pressure Special : 85% to 90% of actuation pressure |
| Range of Tolerances on Actuation & Deactuation Pressure | Standard : up to ±6% of actuation pressure (±10 PSI minimum) Special : up to ±4% of actuation pressure (±5 PSI minimum) <i>Choice of deactuation pressure setting and tolerances affects price</i> |

6PS Series

| SPECIFICATIONS | |
|---|--|
| Temperature Rating | -54°C to +135°C (-65°F to 275°F) |
| Vibration Resistance | 25 G, 20–2000 cps (no contact chatter in excess of 10 microseconds) |
| Burst Pressure | 8,000 PSI minimum |
| Proof Pressure | 8 times actuating pressure |
| Life @ Rated Current | 50,000 cycles |
| Current Capacity | Resistive : 5amp @ 28 VDC Inductive : 2amp @ 28 VDC Lamp : 1amp @ 28 VDC |
| Dielectric Strength | Terminal to terminal : 1000 vrms Terminal to case : 1000 vrms |
| Weight | Without Leads : 30 grams max With Connector : 60 grams max |
| Metal Parts Exposed to Pressure & Environment | 300 series stainless steel CA-360-2 (1/2 hard leaded brass) |
| Potting Material | Epoxy resin |

6PS PART NUMBER BUILDER

6PS204 S 260 L 180 E

1. Design Type

2. Actuation Pressure Tolerance
A = ± 5 T = ± 25
C = ± 7 U = ± 30
F = ± 10 V = ± 35
L = ± 15 W = ± 40
S = ± 20

3. Actuation Pressure
Enter a 3-digit value from 45 PSIA to 700 PSIA. If under 100PSIA, place a “0” in front, for example 45PSIA = 045

2. Deactuation Pressure Tolerance
A = ± 5 T = ± 25
C = ± 7 U = ± 30
F = ± 10 V = ± 35
L = ± 15 W = ± 40
S = ± 20

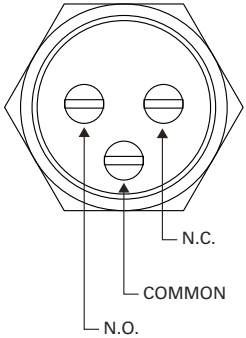
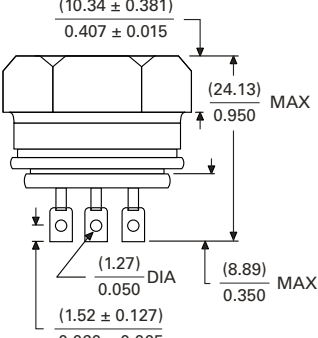
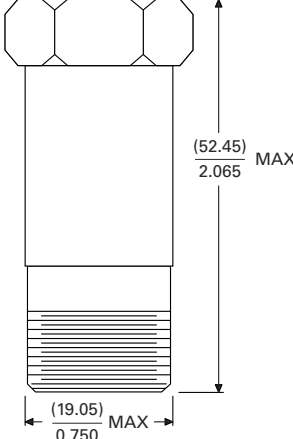
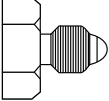
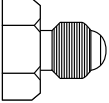
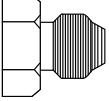
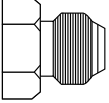
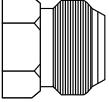
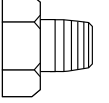
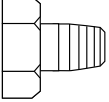
5. Deactuation Pressure
Enter a 3-digit value from 45 PSIA to 700 PSIA. If under 100PSIA, place a “0” in front, for example 45PSIA = 045

6. Lead Length Code (if applicable)
D = 6” J = 36”
E = 12” K = 42”
F = 18” L = 48”
G = 24” M = 60”
H = 30” N = 72”

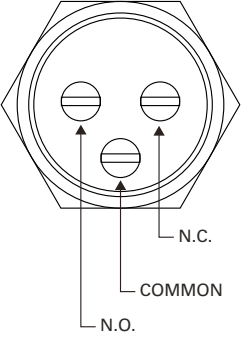
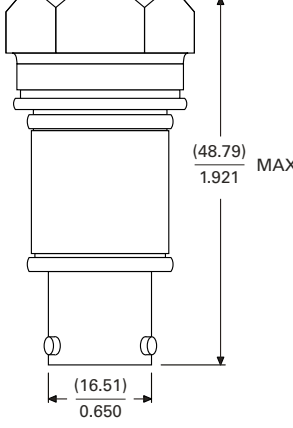
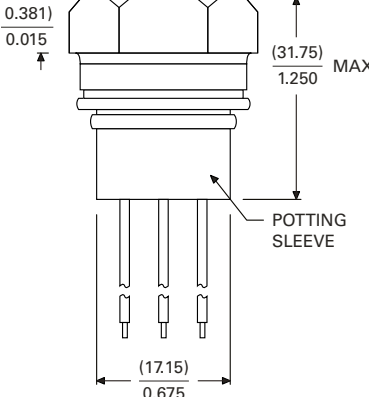
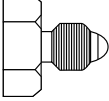
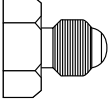
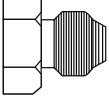
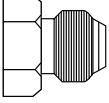
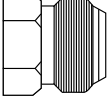
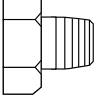
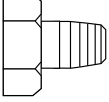
See pressure table for standard tolerances for the actuation and deactuation pressures. Note, after building a part number, consult the factory for pricing and to confirm pressure specifications are valid.

| Actuation Pressure (PSIA) | | | Deactuation Pressure (PSIA) | | | |
|---------------------------|--------------------|-------------------|-----------------------------|--------------------|--------------------|-------------------|
| Pressure | Standard Tolerance | Special Tolerance | Standard 60% to 85% | Special 85% to 90% | Standard Tolerance | Special Tolerance |
| 45 to 134 | ± 10 | ± 5 | 28 to 112 | 40 to 117 | ± 10 | ± 5 |
| 135 to 164 | ± 10 | ± 7 | 83 to 137 | 117 to 144 | ± 10 | ± 7 |
| 165 to 249 | ± 15 | ± 10 | 101 to 208 | 142 to 216 | ± 15 | ± 10 |
| 250 to 369 | ± 20 | ± 15 | 153 to 310 | 217 to 324 | ± 20 | ± 15 |
| 370 to 429 | ± 25 | ± 20 | 225 to 361 | 319 to 378 | ± 25 | ± 20 |
| 430 to 489 | ± 30 | ± 20 | 261 to 412 | 370 to 432 | ± 30 | ± 20 |
| 490 to 549 | ± 35 | ± 25 | 297 to 463 | 421 to 486 | ± 35 | ± 25 |
| 550 to 599 | ± 40 | ± 25 | 333 to 510 | 472 to 540 | ± 40 | ± 25 |
| 600 to 700 | Consult Factory | | | | | |

6PS Series – Design Type

| 6PS SERIES - DESIGN TYPE | | | | | | | |
|---|---|---|--------------------------------|--|--------------------------------|-----------------------------------|--------------------------------|
|  <p>Lockwire holes are .047 ± .006 [1.19 ± .15] diameter. Located .050 ± .008 [1.27 ± .20] from port face of hex</p> | |  | |  | | | |
| | | SPDT | SPDT | SPDT | SPDT | SPST | SPST |
| 1/8" OD Tubing MS 33656 -E2 |  | 6PS100 without lock-wire holes | 6PS150 with lock-wire holes | 6PS102 without lock-wire holes | 6PS152 with lock-wire holes | 6PS103 without lock-wire holes | 6PS153 with lock-wire holes |
| 3/16" OD Tubing MS 33656 -E3 |  | 6PS200 without lock-wire holes | 6PS250 with lock-wire holes | 6PS202 without lock-wire holes | 6PS252 with lock-wire holes | 6PS203 without lock-wire holes | 6PS253 with lock-wire holes |
| 1/4" OD Tubing MS 33656 -E4 |  | 6PS300 without lock-wire holes | 6PS350 with lock-wire holes | 6PS302 without lock-wire holes | 6PS352 with lock-wire holes | 6PS303 without lock-wire holes | 6PS353 with lock-wire holes |
| 5/16" OD Tubing MS 33656 -E5 |  | 6PS400 without lock-wire holes | 6PS450 with lock-wire holes | 6PS402 without lock-wire holes | 6PS452 with lock-wire holes | 6PS403 without lock-wire holes | 6PS453 with lock-wire holes |
| 3/8" OD Tubing MS 33656 -E6 |  | 6PS500 without lock-wire holes | 6PS550 with lock-wire holes | 6PS502 without lock-wire holes | 6PS552 with lock-wire holes | 6PS503 without lock-wire holes | 6PS553 with lock-wire holes |
| 1/8" Pipe Fitting MS 33677 |  | 6PS600 without lock-wire holes | 6PS650 with lock-wire holes | 6PS602 without lock-wire holes | 6PS652 with lock-wire holes | 6PS603 without lock-wire holes | 6PS653 with lock-wire holes |
| 1/4" Pipe Fitting MS 33677 |  | 6PS700 without lock-wire holes | 6PS750 with lock-wire holes | 6PS702 without lock-wire holes | 6PS752 with lock-wire holes | 6PS703 without lock-wire holes | 6PS753 with lock-wire holes |

6PS Series – Design Type

| 6PS SERIES - DESIGN TYPE | | | | | | | | | |
|---|---|---|--------------------------------|---|--------------------------------|-----------------------------------|--------------------------------|-----------------------------------|--------------------------------|
|  <p>Lockwire holes are .047 ± .006 [1.19 ± .15] diameter. Located .050 ± .008 [1.27 ± .20] from port face of hex</p> | |  | |  | | | | | |
| | | SPST | SPST | SPDT | SPDT | SPST (NC) | SPST (NC) | SPST (NO) | SPST (NO) |
| 1/8" OD Tubing MS 33656 -E2 |  | 6PS104 without lock-wire holes | 6PS154 with lock-wire holes | 6PS101 without lock-wire holes | 6PS151 with lock-wire holes | 6PS105 without lock-wire holes | 6PS155 with lock-wire holes | 6PS106 without lock-wire holes | 6PS156 with lock-wire holes |
| 3/16" OD Tubing MS 33656 -E3 |  | 6PS204 without lock-wire holes | 6PS254 with lock-wire holes | 6PS201 without lock-wire holes | 6PS251 with lock-wire holes | 6PS205 without lock-wire holes | 6PS255 with lock-wire holes | 6PS206 without lock-wire holes | 6PS256 with lock-wire holes |
| 1/4" OD Tubing MS 33656 -E4 |  | 6PS304 without lock-wire holes | 6PS354 with lock-wire holes | 6PS301 without lock-wire holes | 6PS351 with lock-wire holes | 6PS305 without lock-wire holes | 6PS355 with lock-wire holes | 6PS306 without lock-wire holes | 6PS356 with lock-wire holes |
| 5/16" OD Tubing MS 33656 -E5 |  | 6PS404 without lock-wire holes | 6PS454 with lock-wire holes | 6PS401 without lock-wire holes | 6PS451 with lock-wire holes | 6PS405 without lock-wire holes | 6PS455 with lock-wire holes | 6PS406 without lock-wire holes | 6PS456 with lock-wire holes |
| 3/8" OD Tubing MS 33656 -E6 |  | 6PS504 without lock-wire holes | 6PS554 with lock-wire holes | 6PS501 without lock-wire holes | 6PS551 with lock-wire holes | 6PS505 without lock-wire holes | 6PS555 with lock-wire holes | 6PS506 without lock-wire holes | 6PS556 with lock-wire holes |
| 1/8" Pipe Fitting MS 33677 |  | 6PS604 without lock-wire holes | 6PS654 with lock-wire holes | 6PS601 without lock-wire holes | 6PS651 with lock-wire holes | 6PS605 without lock-wire holes | 6PS655 with lock-wire holes | 6PS606 without lock-wire holes | 6PS656 with lock-wire holes |
| 1/4" Pipe Fitting MS 33677 |  | 6PS704 without lock-wire holes | 6PS754 with lock-wire holes | 6PS701 without lock-wire holes | 6PS751 with lock-wire holes | 6PS705 without lock-wire holes | 6PS755 with lock-wire holes | 6PS706 without lock-wire holes | 6PS756 with lock-wire holes |

This image shows a full page of white paper with horizontal blue ruling lines. The lines are evenly spaced and run across the width of the page. At the top left corner, the word "Notes" is written in a large, bold, black font. A thin blue vertical line runs down the right side of the page, starting from the top edge and extending almost to the bottom, where it meets a small blue circle. This design is typical of a spiral-bound notebook.

Notes



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