

THERMOSTATS • ELECTRONIC CONTROLS
ISO 9001/AS 9100 Certified Quality System





Our Service Makes The Difference

1/2" Disc Thermostats • 1/2" Disc Hermetically Sealed Thermostats • 3/4" Disc Thermostats • Encapsulated Thermostats • Thermal Protectors • Printed Circuit Board Thermostats • One-Shot Thermal Cut-offs • Probe Thermostats • Cold Capellary Thermostats • Adjustable Thermostats • Hot Bulb & Capillary Thermostats • Value Added Services • NTC Thermistors • PPTC Thermistors • CdS Photogolis • Electronic Controls • Digital Panel Meters • Control Knobs

Founded in 1958 by Bill Wilkinson, Selco Products' corporate headquarters is in Anaheim, California. Our sales force consists of direct and manufacture representatives throughout North America and Mexico. Every member of our customer support team is dedicated to - providing you with knowledgeable assistance, timely response to special requirements, and prompt delivery of your order.

Selco has manufacturing facilities in Anaheim, San Diego, China, Japan, Italy, and Brazil. While we manufacture our own line of electronic controls, we have exclusive agreements with select off-shore manufacturers to supply us with high quality electro-mechanical thermal components. Selco handles all marketing and distribution of their products in North America and we also assist with engineering, quality assurance, and UL approvals. This allows us to offer a very broad range of products at very competitive prices.

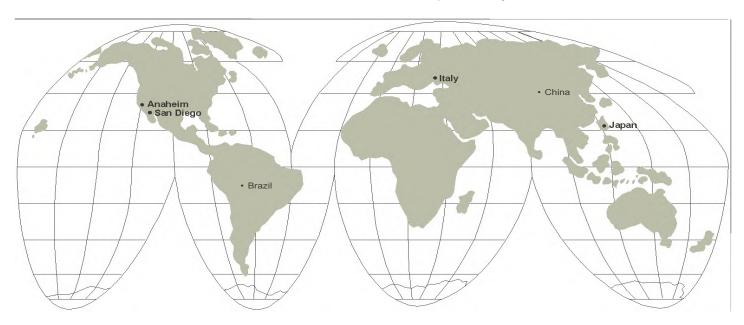
A full range of product lines are offered by Selco including thermal products, thermistors, control knobs, electronic controls, and digital panel meters. The thermal products line is comprised of automatic/manual reset bulb and capillary thermostats, cold capillary controls, hermetically sealed thermostats, high temperature thermostats, 1/2" and 3/4" disc thermostats, thermal cut-offs, thermal protectors, NTC (negative temperature coefficient) and PPTC (polymer positive temperature coefficient) thermistors. Control knobs include collet, push-on, slider, and accessories. Selco's line of electronic controls consist of digital temperature and time controllers, configurable controllers, digital timer modules, and relays. DC and AC voltmeters and ammeters, process monitors, setpoint comparators, thermometers, counters, tachometers, are offered in the digital panel meter line

Selco services both OEM and end-user companies in the following industries:

- HVAC
- Medical
- Appliances
- Electronics
- Food Service
- Process Controls
- Professional Audio
- Telecommunications
- Industrial Instrumentation

Selco Strengths

- JIT program
- FREE samples
- · On-time delivery
- Kanban program
- One-year warranty
- Engineering support
- Value Added services
- Lead time six weeks (approx.)
- Cost reduction over present source
- Same day shipping from Anaheim, CA
- Special packaging/labeling/bar coding
- Complete thermal component source
- . Prompt, friendly, and courteous customer service



ISO 9001/AS 9100 Certified Quality System



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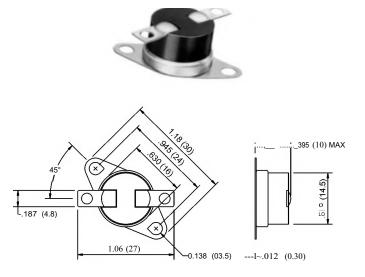
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Disc Thermostats - Automatic Reset

CA/OA (602S) Series, Gold Contacts (602K)



SPECIFICATIONS

Electrical ratings - Type S 125VAC, 15 Amps, Resistive, 100,000 Cycles 250VAC, 10 Amps, Resistive, 100,000 Cycles

Inductive load ratings 120VAC, 5.8FLA, 34.8LRA, 6,000 Cycles 240VAC, 2.9FLA, 17.4LRA, 6,000 Cycles

Electrical ratings - Type K 30VDC, 1 Amp. Resistive, 100,000 Cycles 120VAC, 125VA (pilot duty), 1 Amp

50°F to 302°F (10°C to 150°C)

Temperature range UL approved models

302°F to 320°F (575°C to 608°C) Non-UL approved models

Differential 15°F to 100°F (8°C to 56°C)

Environmental temperature 32°F to 350°F (0°C to 177°C)

100M Ω or more (with a 500VDC megger) Insulation resistance

Circuit resistance 50m Ω or less (initial value)

Dielectric strength 1,500VAC/1 minute

UL Recognized File No. E145478(S), XAPX2 **Approvals**

CSA File No. LR63201 VDE File No. 69046 Demko File No. DK-451, CE

RoHS Compliant

This line of highly reliable switches utilize a temperature sensitive disc, electrically isolated from the switch. Contacts will open or close on rise when surface or ambient temperature increase to the snap point of the calibrated bimetal disc. The entire switch is enclosed in a phenolic dust-free housing. The bimetal disc is retained by a metal heat-conducting end cap.

The CA and OA Series thermostats are used in a variety of applications. They are produced in an ISO 9000 certified factory to insure safe and reliable operation. All models are 100% factory inspected for temperature, continuity and function.

Value Added options available including over-mold and seal. For details regarding Value Added options, see page 51.

Models available from stock - subject to availability CA - Close On-Rise (normally open) • OA - Open On-Rise (normally closed)

Close/Open On-Rise	Model Number	Open °F	Close °F	Mounting	Terminals	Orientation from Mounting Holes
Close	CA-50	32 ± 10	50 ± 7	surface	solder tabs	45°
Close	CA-60	40 ± 9	60 ± 7	surface	solder tabs	45°
Close	CA-60-QCV	40 ± 10	60 ± 7	surface	.250 quick connects, vertical	90°
Close	CA-85	67 ± 9	85 ± 7	surface	solder tabs	45°
Close	CA-85-PCB	55 ± 10	85 ± 7	air	printed circuit board	•
Close	CA-85-QC	67 ± 10	85 ± 7	surface	.187 quick connects, horizontal	45°
Close	CA-100	70 ± 10	100 ± 7	surface	solder tabs	45°
Close	CA-104-ST-18	86 ± 10	104 ± 8	6-32 stud	.250 quick connects, vertical	•
Close	CA-107-QCV	90 ± 10	107 ± 7	surface	.187 quick connects, vertical	90°
Close	CA-110	80 ± 10	110 ± 7	surface	solder tabs	45°
Close	CA-110-PCB	80 ± 10	110 ± 7	air	printed circuit board	•
Close	CA-110-QC45	80 ± 10	110 ± 7	surface	.187 quick connects, horizontal	45°
Close	CA-115-QC	100 ± 10	115 ± 7	rotating bracket	.250 quick connects, horizontal	•
Close	CA-120	90 ± 10	120 ± 7	surface	solder tabs	45°
Close	CA-120-QC	90 ± 10	120 ±7	surface	.250 quick connects, horizontal	90°
Close	CA-120-QCH	90 ± 10	120 ± 7	surface	.187 quick connects, horizontal	45°
Close	CA-120-QCV	90 ± 7	120 ± 10	surface	.250 quick connects, vertical	90°
Close	CA-130-QC	110 ± 10	130 ± 7	surface	.250 quick connects, vertical	45°
Close	CA-130-QCH	100 ± 10	130 ± 7	surface	.250 quick connects, horizontal	90°
Close	CA-130-ST	112 ± 10	130 ± 7	8-32 stud	.250 quick connects, vertical	•
Close	CA-130-WOB	100 ± 10	130 ± 7	no bracket	solder tabs	45°
Close	CA-140	110 ± 10	140 ± 7	surface	solder tabs	45°
Close	CA-140-QC	110 ± 10	140 ± 7	surface	.250 quick connects, vertical	90°
Close	CA-140-QC18	122 ± 10	140 ± 7	rotating	.250 quick connects, vertical	•
Close	CA-150	120 ± 10	150 ± 7	surface	solder tabs	45°
Close	CA-160	130 ± 10	160 ± 7	surface	solder tabs	45°
Close	CA-160-QC	130 ± 10	160 ± 7	surface	.250 quick connects, horizontal	90°
Close	CA-160-QC15	145 ± 7	160 ± 10	surface	.250 quick connects, horizontal	90°
Close	CA-170	140 ± 10	170 ± 7	surface	solder tabs	45°

1/2" Disc Thermostats - Automatic Reset CA/OA (602S) Series, Gold Contacts (602K)

Models available from stock - subject to availability CA - Close On-Rise (normally open) OA - Open On-Rise (normally closed) Model Orientation from Open °F Close °F Mounting **Terminals** On-Rise Number **Mounting Holes** CA-170-QC 140 ± 10 170 ± 7 909 Close .250 guick connects, vertical surface CA-170-WOB Close 140 ± 10 170 ± 7 no bracket solder tabs CA-175-QC 145 ± 10 175 ± 7 .250 quick connects, horizontal 900 Close surface 450 Close CA-180 150 ± 10 180 ± 7 surface solder tabs **CA-180-QCV** Close 150 ± 10 180 ± 7 rotating .250 guick connects, vertical • Close CA-185-ST 145 ± 10 185 ± 7 6-32 stud .250 quick connects 45° Close CA-190 169 ± 10 190 ± 7 surface solder tabs Close CA-190-QC 172 ± 10 190 ± 7 surface .250 quick connects, vertical 909 459 CA-200 170 ± 10 200 ± 7 Close surface solder tabs CA-205 175 ± 10 205 ± 7 45° Close surface solder tabs Close CA-205-ST 175 ± 10 205 ± 7 6-32 stud .250 quick connects @ 30° CA-210-QC 180 ± 10 900 210 ± 7 surface .187 quick connects, vertical CA-225 195 ± 10 225 ± 7 45° Close surface solder tabs CA-230-QC Close 203 ± 7 230 ± 10 rotating bracket 187 quick connects, horizontal • Close CA-230-STG 185 ± 10 230 ± 7 6-32 stud .187 guick connects, vertical CA-240 210 ± 10 240 ± 7 surface Close solder tabs 45° Close CA-270 240 ± 10 270 ± 7 surface solder tabs 459 45° CA-270-QCV Close 240 + 7270 + 10surface .187 quick connects, vertical CA-300 45° 270 ± 10 300 ± 7 Close surface solder tabs OA-50 50 ± 5 32 ± 10 solder tabs 459 Open surface Open OA-60 surface solder tabs 45° OA-60-PCB air printed circuit board • Open OA-60-QCR 60 ± 5 40 ± 10 rotating .250 quick connects, vertical OA-60-QCV 40 ± 10 900 60 ± 5 .250 guick connects, vertical Open surface OA-60-WOB 60 ± 5 40 ± 9 Open no bracke solder tabs OA-70 459 Open 70 ± 5 50 ± 10 surface solder tabs Open OA-80 80 ± 5 50 ± 9 surface solder tabs 459 OA-80-PCB • Open 80 ± 5 50 ± 10 air printed circuit board 50 ± 9 OA-80-QCV 80 ± 5 90° Open surface .250 guick connects, vertical Open OA-85 surface solder tabs 45° OA-95-QC 900 77 ± 9 surface .250 guick connects, horizontal Open OA-100 100 ± 5 70 ± 10 surface solder tabs 45° 90° OA-100-QC 100 ± 5 85 ± 10 Open surface .250 guick connects, horizontal OA-110 110 ± 5 80 ± 10 45° Open solder tabs surface OA-110-QC • Open 110 ± 5 80 ± 10 rotating bracket .250 guick connects, horizontal OA-120 120 ± 5 90 ± 10 solder tabs 450 Open surface OA-120-15-45 105 ± 10 450 Open 120 ± 5 surface solder tabs 90° Open OA-120-QC 120 ± 5 90 ± 10 surface .250 guick connects, vertical OA-120-QCH 120 ± 5 90 ± 10 .250 quick connects, horizontal 45° Open surface Open OA-130 130 ± 5 100 ± 10 surface solder tabs 45° Open OA-130-ST 130 ± 5 100 ± 10 10-32 stud .250 quick connects, horizontal • 45° OA-140 110 + 10Open 140 + 5surface solder tabs OA-140-QCV 140 ± 5 110 ± 10 .250 guick connects, vertical 90° Open surface Open OA-150 150 ± 5 120 ± 10 surface solder tabs 45° OA-150-PCB 150 ± 5 120 ± 10 900 Open air printed circuit board Open OA-150-QCC 150 ± 5 120 ± 10 surface .250 quick connects, vertical • OA-158-ST 158 ± 5 118 ± 10 • Open 6-32 stud .250 quick connects OA-160 160 ± 5 130 ± 10 solder tabs 45° Open surface Open OA-160-QC20 160 ± 5 140 ± 10 surface .250 quick connects, horizontal 909 130 ± 10 OA-160-QCH 160 ± 5 surface 187 quick connects, horizontal 45° 900 Open OA-160-QCV20 160 ± 5 140 + 10surface .250 quick connects, vertical OA-165-145 900 165 ± 5 145 ± 9 .250 guick connects, vertical Open surface Open OA-170 170 ± 5 140 ± 10 surface solder tabs 45° Open OA-170-PCB 170 ± 5 140 ± 10 printed circuit board • Open OA-170-WOB 170 ± 5 140 ± 10 no bracket .187 quick connects, horizontal • Open OA-175 175 ± 5 157 ± 10 surface solder tabs 45° OA-175-QC 145 ± 10 45° 175 ± 5 .250 quick connects, vertical Open surface Open OA-175-QCH 175 ± 5 157 ± 10 .250 quick connects, horizontal 459 surface OA-175-S2 145 ± 10 10-32 stud Open 175 ± 6 .250 guick connects, horizontal • Open OA-180 180 ± 5 150 + 10surface solder tabs

1/2" Disc Thermostats - Automatic Reset CA/OA (602S) Series, Gold Contacts (602K)

Models available from stock - subject to availability CA - Close On-Rise (normally open) OA - Open On-Rise (normally closed) Model Orientation from Open °F Close °F Mounting **Terminals** On-Rise Number **Mounting Holes** OA-180-QC 180 ± 5 150 ± 10 .187 quick connects, horizontal 45° Open surface OA-180-QCV 45° Open 180 ± 5 150 ± 10 surface .250 quick connects, vertical Open OA-180-QCVR 180 ± 5 150 ± 10 rotating bracket .250 quick connects, vertical • Open OA-185-QC18 185 ± 10 167 ± 10 rotating bracket .250 quick connects, vertical 900 Open OA-185-QCP 185 ± 5 154 ± 10 surface .250 guick connects, vertical OA-185-ST10 185 ± 5 131 ± 10 10-32 stud Open .250 quick connects, horizontal 459 Open OA-190 190 ± 5 160 ± 10 surface solder Open OA-190-QC 190 ± 7 172 ± 10 surface .250 quick connects, vertical 459 OA-194-QC 194 + 5 164 + 10 45° .187 quick connects, vertical Open surface OA-194-QC18 194 ± 5 176 ± 10 90° Open surface 250 guick connects, horizontal Open OA-194-QCC 194 ± 5 153 ± 10 surface .250 quick connects, vertical 900 200 ± 5 OA-200 170 ± 10 45° surface solder OA-200-QC 200 ± 5 181 ± 10 surface .250 quick connects, vertical 900 Open 45° OA-200-QCV 170 ± 10 Open 200 ± 5 surface .250 guick connects, vertical Open OA-200-QCV-90 200 ± 5 170 ± 10 900 surface .250 quick connects, vertical 200 ± 5 Open OA-200-ST 170 ± 8 10-32 stud .250 quick connects Open OA-203-QCP 203 ± 5 163 ± 10 surface .250 quick connects, vertical 900 900 OA-203-QCV 167 + 10Open 203 ± 5 surface .250 quick connects, vertical OA-203-ST • 203 ± 5 163 ± 10 6-32 stud .250 quick connects Open OA-210 210 ± 5 180 ± 10 45° Open surface solder Open OA-210-QC 210 ± 5 180 ± 10 surface 187 guick connects, horizontal 45° 195 ± 10 OA-210-QCR 210 ± 5 rotating bracket .250 guick connects, horizontal • 459 Open OA-210-QCV 210 ± 5 180 ± 10 surface .250 quick connects, vertical OA-212-QCP 212 ± 5 167 ± 10 900 Open .250 quick connects, vertical surface OA-220 220 ± 5 190 ± 10 45° Open surface solder OA-220-PCB 190 ± 10 • Open 220 ± 5 air printed circuit board Open OA-220-QC 220 ± 5 190 ± 10 surface .250 quick connects, horizontal 459 OA-225-205 909 Open 225 ± 5 205 ± 10 surface .250 quick connects, vertical OA-230 230 ± 5 200 ± 10 45° Open surface solder 90° Open OA-230-QCV 230 ± 7 200 ± 10 surface .250 quick connects, vertical OA-239-ST 239 ± 7 189 ± 10 6-32 stud .250 quick connects OA-240-QCV 909 Open 240 ± 7 200 ± 10 surface .250 guick connects, vertical 45° Open OA-250 250 ± 7 220 ± 10 surface solder OA-250-PCB 220 ± 10 printed circuit board Open 250 ± 5 air 45° Open OA-250-QC 250 ± 5 220 ± 10 surface 187 quick connects, horizontal OA-250-QCA 250 ± 7 220 ± 10 surface .250 quick connects, horizontal 459 Open 900 Open OA-265-QCA 265 ± 7 235 ± 10 air .250 quick connects, vertical 240 ± 10 909 Open OA-270-90 270 ± 7 surface solder OA-275-QCH 275 ± 7 245 ± 10 .250 quick connects, horizontal 45° Open surface 250 ± 10 Open OA-280 280 ± 7 surface 45° Open OA-280-QC 280 ± 7 250 ± 10 surface .250 quick connects, vertical 459 270 ± 10 300 ± 7 459 OA-300 Open surface solder Open OA-300-QC 300 ± 7 220 ± 14 rotating bracket .250 guick connects, vertical • OA-300-QCVR 270 ± 10 Open 300 ± 7 rotating bracket .250 quick connects, vertical •

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1/2" Disc Thermostats - Manual Reset OM (603U-H) Series, Gold Contacts (603K)

Electrical ratings - Type K (Type K not VDE approved)

Non-UL approved models

Insulation resistance

Circuit resistance

Dielectric strength

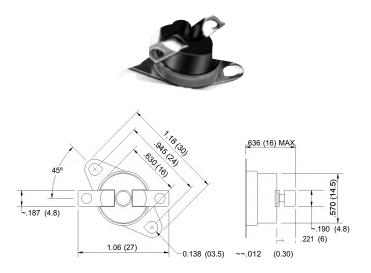
Approvals

Environmental temperature

Temperature range UL approved models

Manual reset

Automatic reset



SPECIFICATIONS

Electrical ratings - Type U-H 125VAC, 15 Amps, Resistive, 6,000 Cycles 250VAC, 10 Amps, Resistive, 6,000 Cycles

Inductive load ratings 120VAC, 5.8FLA, 34.8LRA, 12 Amps, 6,000 Cycles

250VAC, 2.9FLA, 17.4LRA, 6,000 Cycles 30VDC, 1 Amp, Resistive, 6,000 Cycles

120VAC, 125VA (pilot duty), 6,000 Cycles 120°F to 302°F (50°C to 150°C)

302°F to 320°F (150°C to 160°C)

30% below operating temperature

-40°F

32°F to 350°F (0°C to 177°C)

100M Ω or more (with a 500VDC megger)

50m Ω or less (initial value)

1,500VAC/1 minute

UL Recognized File No. E145478(S), XAPX2 C-UL Recognized File No. E145478(S), XAPX8

CSA File No. LR63201

VDE File No. 135151 (Type U-H only)

RoHS Compliant

APPLICATIONS

Fireplaces
 Vacuum cleaners
 Food service equipment

This line of highly reliable switches utilize a snap-action bimetal disc, electrically and thermally isolated from the switch. The contacts are normally closed and open on rise when surface or ambient temperature set point is reached. The circuit will remain open until the manual reset button is depressed at approximately 30% below operating temperature. All models are 100% temperature tested which can be calibrated to your specification at the factory.

Value Added options available including over-mold and seal. For details regarding Value Added options, see page 51.

Models available from stock - subject to availability

• OM Series - Open On-Rise (normally closed)

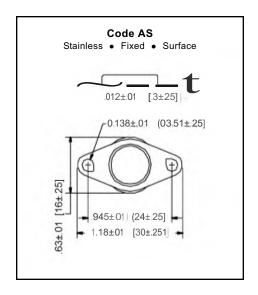
Open On-Rise	Model Number	Open °F	Mounting	Terminals	Orientation from Mounting Holes
Open	OM-140-QC	140 ± 10	surface	.250 quick connects, horizontal	90°
Open	OM-150-QCV	150 ± 10	rotating bracket	.250 quick connects, vertical	•
Open	OM-160	160 ± 10	surface	solder	45°
Open	OM-180-QC	180 ± 10	surface	.187 quick connects, horizontal	45°
Open	OM-194	194 ± 10	surface	solder	90°
Open	OM-195-QC	195 ± 10	rotating bracket	.250 quick connects, horizontal	•
Open	OM-200-QCV	200 ± 10	surface	.250 quick connects, vertical	90°
Open	OM-212-QC	212 ± 10	rotating bracket	.250 quick connects, horizontal	•
Open	OM-225-QC	225 ± 10	rotating bracket	.250 quick connects, horizontal	•
Open	OM-250	250 ± 10	surface	solder	45°
Open	OM-250-QC	250 ± 10	surface	.250 quick connects, horizontal	45°
Open	OM-260-SO	260 ± 7	6-32 stud	.250 quick connects, horizontal	•
Open	OM-265-A	265 ± 10	air	solder	45°
Open	OM-285-QC	285 ± 10	surface	.250 quick connects, horizontal	45°
Open	OM-302-QCV	302 ± 10	surface	.250 quick connects, vertical	90°
Open	OM-320	320 ± 10	surface	solder	45°
Open	OM-320-QC	320 ± 10	surface	.250 quick connects, horizontal	45°

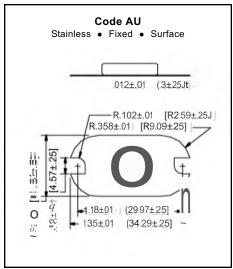
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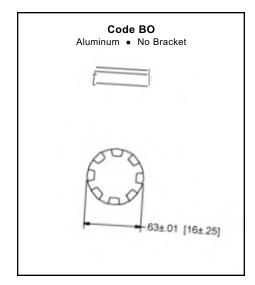


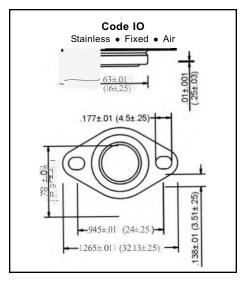
Special Order Brackets

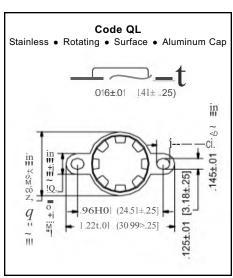
For CA/OA (602S & 602K) and OM (603U-H & 603K) Series

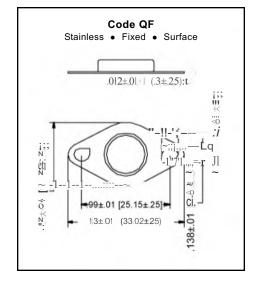


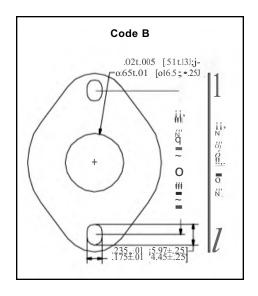


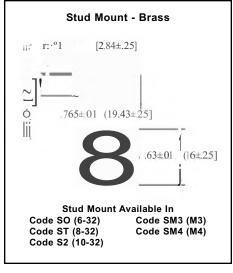


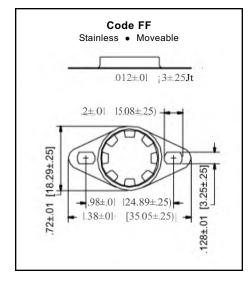






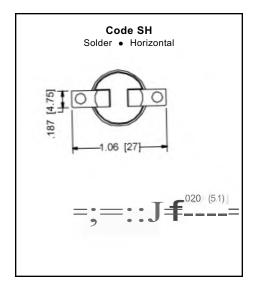


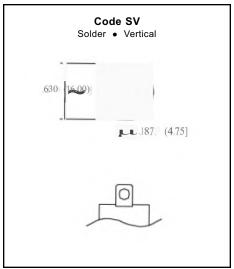


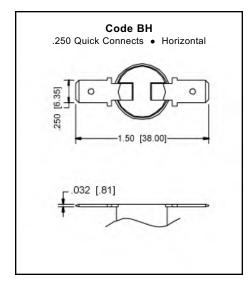


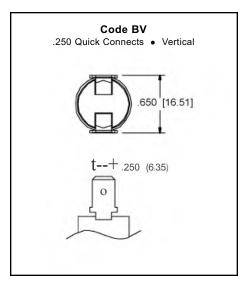
Special Order Terminals

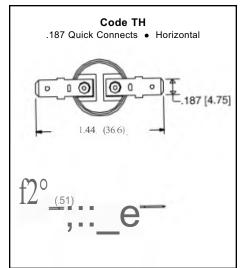
For CA/OA (602S & 602K) and OM (603U-H & 603K) Series

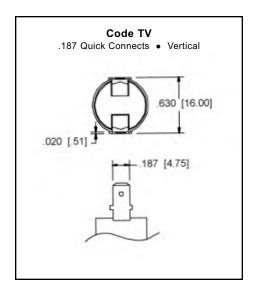


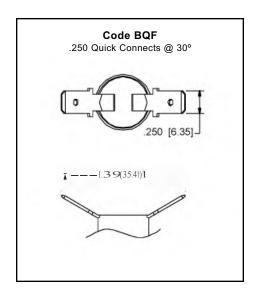


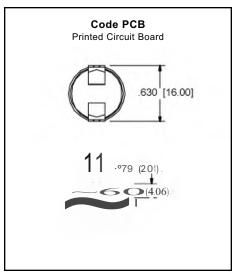


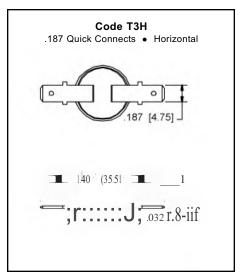












Disc Thermostats - Automatic Reset

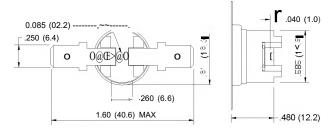
CR/OR (622A and 622P) Series



CR/OR (622A) Series - Standard Case -.125 (3.2).488 (12.4) .145 (3.7) .250 (6.4) O) V o 0 (C) (C) o N N LO (O (O) -jf- .012 (.3) .724 (18.4)

622P Series - 4 Post Design (pictured above)

1.60 (4.1) MAX



FEATURES

- 4-post design
- High temperature polyester
- Approval by UL, CSA, VDE, CE

They are preset and tamper proof.

Value Added options, see page 51.

APPLICATIONS

- Coffee makers
- Microwave ovens Sandwich makers

These SPST, snap-action disc thermostats are suitable for a drip-type coffee maker temperature limiting/regulating control.

Each device is 100% tested and inspected before leaving the

factory. Gold contacts available upon request. Value Added options available including over-mold and seal. For details regarding

SPECIFICATIONS

125VAC, 15 Amps, Resistive, 100,000 Cycles **Electrical ratings** 250VAC, 10 Amps, Resistive, 100,000 Cycles

Temperature range 50°F to 365°F (10°C to 185°C) Differential 18°F to 45°F (10°C to 25°C) -4°F to 392°F (-20°C to 200°C) **Environmental temperature**

Coffee maker, normal & dry override/over shoot

455°F (235°C)

Insulation resistance 100M Ω or more (with a 500VDC megger)

Circuit resistance $50m \Omega$ or less (initial value)

Dielectric strength 1.500VAC/1 minute

UL Recognized File No. E145478(S), XAPX2 **Approvals**

CSA File No. LR63201 VDE File. F-14713, CE RoHS Compliant

Models available from stock - subject to availability CR - Close On-Rise (normally open) OR - Open On-Rise (normally closed)

Open On-Rise	Model Number	Open °F	Close °F	Mounting	Terminals
Open	OR-222*	222 ± 5	168 ± 10	no bracket	.250 quick connects, horizontal
Open	OR-285*	285 ± 7	245 ± 11	no bracket	.250 quick connects, horizontal
Open	OR-325**	325 ± 7	275 ± 11	rotating bracket	solder, horizontal
Open	OR-350-QC**	350 ± 9	320 ± 12	rotating bracket	.250 quick connects, horizontal
Open	OR-350-QCV**	350 ± 9	320 ± 12	rotating bracket	.250 quick connects, vertical
Open	OR-365-QC**	365 ± 9	335 ± 12	rotating bracket	.250 quick connects, horizontal

⁴⁻Post design

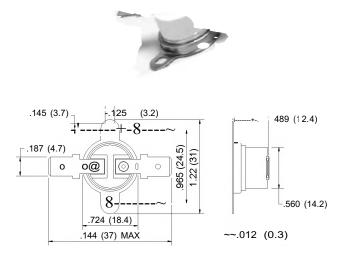
Note: Single operation (one-shot) feature is available. Once the contacts have opened, the contacts will not reclose until ambient temperature drops below -31°F (-35°C).

Click Here to Contact Us!



Standard case

1/2" Disc Thermostats - Automatic Reset CRA/ORA (625A) Series



FEATURES

- ISO 9000 certification
- High temperature case
- Quick and easy installation

APPLICATIONS

- Heaters
- Gas furnaces
- Commercial food equipment

SPECIFICATIONS

Electrical ratings 125VAC, 15 Amps, Resistive, 100,000 Cycles 250VAC, 10 Amps, Resistive, 100,000 Cycles

 Temperature range
 50°F to 500°F (10°C to 260°C)

 Differential
 27°F to 100°F (15°C to 55°C)

 Environmental temperature
 -40°F to 554°F (-40°C to 290°C)

Insulation resistance 100M Ω or more (with a 500VDC megger)

Circuit resistance $50m \Omega$ or less (initial value) Dielectric strength 1.500VAC/1 minute

ApprovalsUL Recognized File No. E145478(S), XAPX2

C-UL Recognized File No. E145478, XAPX8,

VDE, CE RoHS Compliant

These snap-action bimetal discs are housed in a ceramic case to handle extremely high temperatures. The increased factory calibrated set points are available up to 500°F (260°C). The contacts can either open or close on temperature rise.

All models are 100% temperature tested before leaving the factory.

Gold contacts available upon request. Value Added options available including over-mold and seal. For details regarding Value Added options, see page 51.

Models available from stock - subject to availability

CRA - Close On-Rise (normally open)

ORA - Open On-Rise (normally closed)

Open On-Rise	Model Number	Open °F	Close °F	Mounting	Terminals
Open	ORA-257-QCV	257 ± 9	230 ± 9	rotating bracket	.250 quick connects, vertical
Open	ORA-347-QCV	347 ± 16	284 ± 16	rotating bracket	.250 quick connects, vertical
Open	ORA-350-QC	350 ± 14	290 ± 20	rotating bracket	.187 quick connects, horizontal
Open	ORA-375-QC	375 ± 14	315 ± 20	rotating bracket	.250 quick connects, horizontal
Open	ORA-400-QC	400 ± 14	340 ± 20	rotating bracket	.250 quick connects, horizontal
Open	ORA-425-QC	425 ± 15	375 ± 20	rotating bracket	.250 quick connects, horizontal
Open	ORA-450-QC	450 ± 15	370 ± 20	rotating bracket	.250 quick connects, horizontal
Open	ORA-500-QC	500 ± 20	420 ± 20	rotating bracket	.250 quick connects, horizontal
Open	ORA-500-QCV50	500 ± 20	450 ± 20	rotating bracket	.250 quick connects, vertical

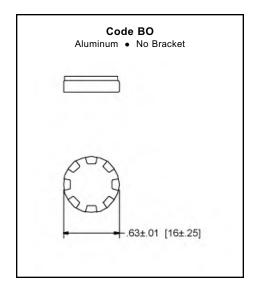
Note: Single operation (one-shot) feature is available. Once the contacts have opened, the contacts will not reclose until ambient temperature drops below -31°F (-35°C).

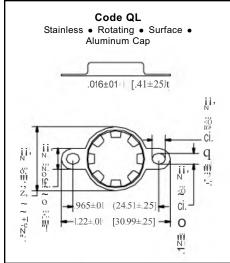
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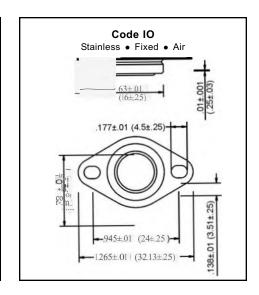


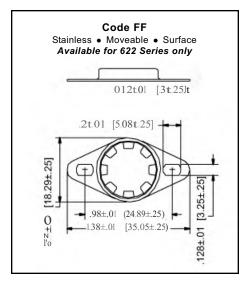
Special Order Brackets

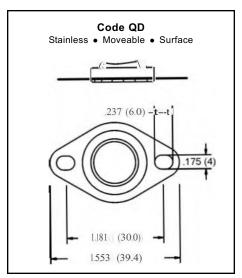
For CR/OR (622A and 622P) and CRA/ORA (625A) Series

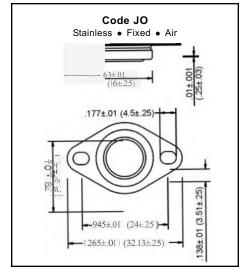










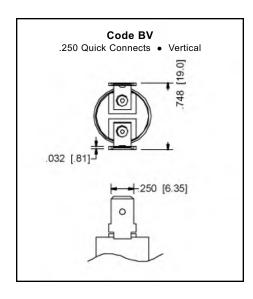


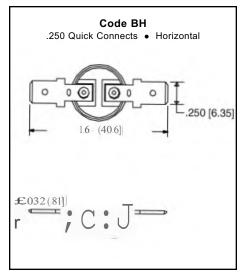
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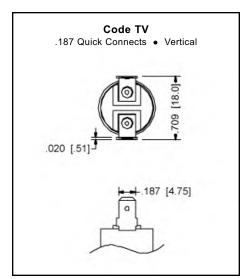


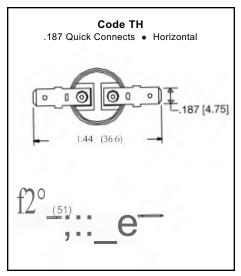
Special Order Terminals

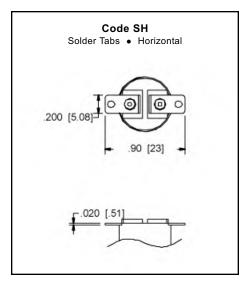
For CR/OR (622A and 622P) and CRA/ORA (625A) Series











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Special Order Map For CA/OA, OM, CR/OR, and CRA/ORA Series

Build Your Own Part

Terminal Bracket Terminal Model **Function** °F/°C Differential Contacts **Set Point** Type Orientation Type

Model

602S CA/OA Series - 1/2" Automatic Reset refer to pages 5-7 603U-H OM Series - 1/2" Manual Reset refer to page 8 622A CR/OR Series - Standard Case - 1/2" Automatic Reset refer to page 11 622P CR/OR - 4-Post Case - 1/2" Automatic Reset refer to page 11 CRA/ORA - High Temperature - 1/2" Automatic Reset 625A refer to page 12

Contacts

Silver contacts Κ Gold contacts

Function

Open on-rise (normally closed) Close on-rise (normally open)

Terminal Type

Models CA/OA (602S) and OM (603U-H) refer to page 10 Models CR/OR (622A and 622P) and CRA/ORA (625A) refer to page 14

Bracket Type

Models CA/OA (602S) and OM (603U-H) refer to page 9 Models CR/OR (622A and 622P) and CRA/ORA (625A) refer to page 13

Terminal Orientation

45°

90°

Example Part Number 602 Χ ٥F ΒV 90 30 S AS 145 °F/°C **Differential** Model Contacts Function **Terminal Bracket** Terminal **Set Point** Type Type Orientation

Click Here to Contact Us!



Hermetically Sealed 1/2" Disc Thermostats KC/KO (4344) Series



The Selco hermetically sealed thermostat is a snap-action disc control. Its welded, hermetically sealed construction was designed for applications where maximum shock and vibration resistance is required. The steel case provides protection from dust and moisture. Terminals are a solder type or weld and lead wires are available.

Gold contacts are available upon request.

Models available from stock - subject to availability KO - Open On-Rise (normally closed)

Model Number	Open °F	Close °F
KO-450	450 ± 12	370 ± 12
KO-550	550 ± 25	470 ± 25

Temperature Settings - Special Order

Operating Temp.		ble Diffe Range °I		Opening Temp. Tol	Closing Temp. Tol
Range (°F)	Min.	Std.	Max.	(±°F)	(±°F)
-65 to -1	25	30	80	10	8
0 to 200	9	20	80	5	5
201 to 300	20	30	80	8	6
301 to 450	30	40	80	12	12
451 to 550	60	70	80	25	25

FEATURES

- Compact size
- Hermetically sealed
- Extreme low & high temps.

APPLICATIONS

- Military
- Aerospace
- Water temperature control

SPECIFICATIONS

Dielectric strength 1250VAC, rms, 60 cycles for 1 minute,

terminal to case; per MIL-STD-202, Method 301

Switch action SPST (snap-action)

Ambient temperature -80°F to +550F° (-62°C to 288°C)

Vibration resistance 5-2000 cps, 20G per MIL-STD-202,

Method 204, Condition D

Moisture resistance MIL-STD-202, Method 106

Salt spray MIL-STD-202, Method 101, Condition B, 5% solution Leakage 1 x 10⁻⁵ ATM cc/sec. max., per MIL-STD-202,

Method 112, Condition C

Approvals UL File No. E34618

UL File Number found under Texas Instr. 4344

C-UL File No. E34618, XAPX8

RoHS Compliant

Contact Ratings (Resistive)

30VAC/DC	125VAC	250VAC	Life Coolee		
	Amperes	Life Cycles			
5.0	2.5	1.0	100,000		
5.5	3.0	1.5	50,000		
6.0	4.0	2.0	25,000		
6.5	5.0	2.5	10,000		
7.0	6.0	3.0	5,000		

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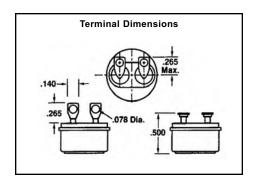


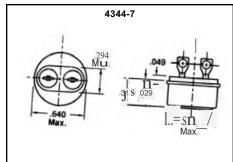
Hermetically Sealed 1/2" Disc Thermostats

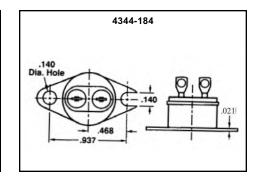
KC/KO (4344) Series - Special Mounting Configurations

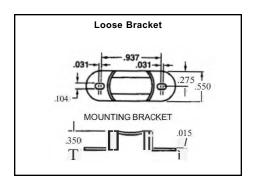
Special Mounting Configurations

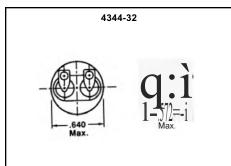
* Drawings are subject to change, consult Selco for current dimensions.

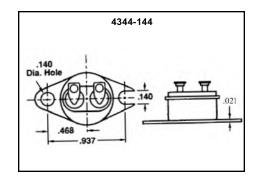


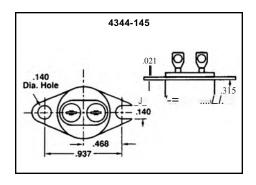


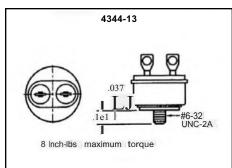


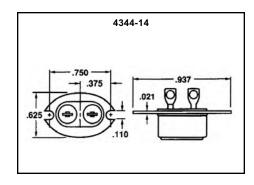


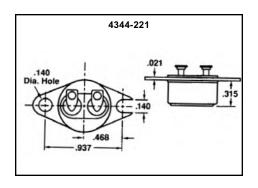


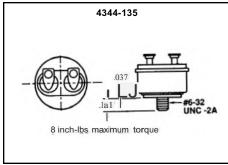


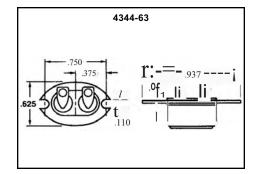






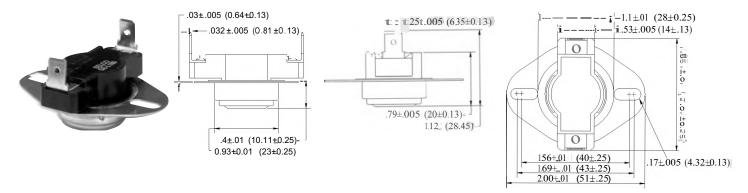






3/4" Disc Thermostats - Automatic Reset

SE (T10) Series - Airstream Mount



Electrical ratings

Differential

FEATURES

- · 25 Amp capacity
- UL and CUL approved
- Factory calibrated to your specifications

APPLICATIONS

- H.V.A.C.
- · Major appliances
- · Medical/Lab equipment
- · Commercial food eqpt.

Selco's direct sensing thermostats are larger than our standard thermostats, giving them an even more powerful bimetallic disc and a higher electrical rating. They are ideal for use with heating and air conditioning systems as well as with industrial equipment. These models are designed for maximum airflow around the thermostat to give quick and accurate response.

These units feature a bimetallic, temperature-sensitive disc for snap-action in opening and closing the switch contacts. The bimetallic disc is thermally and electrically insulated from the electrical circuit, eliminating self-heating effects. Only the temperature of the controlled equipment causes the switch to actuate. Switch operation is rapid and positive due to the characteristics of the bimetallic disc and the wiping action of the current-carrying contacts. Contact chattering is virtually eliminated, as is false cycling and sparking. Exposed disc and single operation models available.

Models available from stock - subject to availability Fan Controls • SE-F - Close On-Rise (normally open)

Model Number	Temperature Ranges			
Model Number	Open °F	Close °F		
SE-F060	40 ± 9	60 ± 5		
SE-F090	70 ± 9	90 ± 5		
SE-F100	100 ± 9	80 ± 5		
SE-F110	90 ± 9	110 ± 5		
SE-F120	100 ± 9	120 ± 5		
SE-F130	110 ± 9	130 ± 5		
SE-F140	120 ± 9	140 ± 5		
SE-F219H*	180 ± 9	219 ± 5		

^{*} Horizontal terminals

SPECIFICATIONS

120VAC, 240VAC, 25 Amps. Resistive, 60Hz

14°F to 100°F (8°C to 56°C) - SPST Models

·	120VAC, 10FLA, 60LRA, 60Hz, Inductive 240VAC, 5FLA, 30LRA, 60Hz, Inductive 100,000 Cycles
Temperature range (UL Models)	33°F to 302°F (1°C to 150°C)
Temperature range	302°F to 350°F (150°C to 177°C)

27°F to 100°F (15°C to 56°C) - SPDT Models

Dielectric strength 1,500VAC/1 minute

Approvals UL Recognized File No. E145478(S), XAPX2

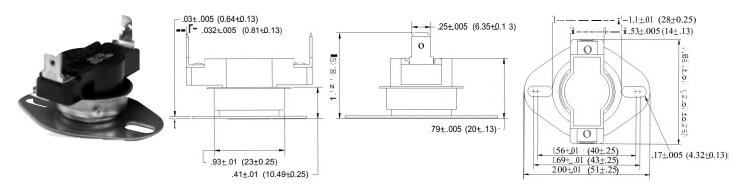
UL Recognized File No. E145478(S), XAPX2 C-UL Recognized File No. E145478, XAPX8

Models available from stock - subject to availability
Limit Controls • SE-L - Open On-Rise (normally closed)

Model Number	Temperature Ranges			
Model Number	Open °F	Close °F		
SE-L120	120 ± 7	106 ± 9		
SE-L130	130 ± 7	115 ± 9		
SE-L135	135 ± 7	110 ± 9		
SE-L140	140 ± 7	100 ± 9		
SE-L145	145 ± 7	120 ± 9		
SE-L150	150 ± 7	110 ± 9		
SE-L150-A	150 ± 7	125 ± 9		
SE-L150-D	150 ± 7	130 ± 9		
SE-L160	160 ± 7	120 ± 9		
SE-L170	170 ± 7	130 ± 9		
SE-L175	175 ± 7	155 ± 9		
SE-L180	180 ± 7	150 ± 9		
SE-L180A	180 ± 7	140 ± 9		
SE-L190	190 ± 7	150 ± 9		
SE-L194H*	194 ± 7	180 ± 9		
SE-L200	200 ± 7	160 ± 9		
SE-L210	210 ± 7	170 ± 9		
SE-L230	230 ± 7	190 ± 9		
SE-L240	240 ± 7	215 ± 9		
SE-L250	250 ± 7	210 ± 9		
SE-L255	255 ± 7	230 ± 9		
SE-L300	300 ± 7	250 ± 9		
SE-L325	325 ± 7	275 ± 9		
SE-L350	350 ± 7	310 ± 9		

^{*} Horizontal terminals

Disc Thermostats - Automatic Reset SES (T11) Series - Surface Mount



FEATURES

- 25 Amp capacity
- UL and CUL approved
- · Factory calibrated to your specifications

APPLICATIONS

- Pumps
- H.V.A.C.
- Automotive
- Medical/Lab Equipment

The T11 model is designed to attach directly to equipment to provide instantaneous temperature measurement and reliable protection. The units feature a bimetallic, temperature sensitive disc for snap-action in opening and closing switch contacts. The bimetallic disc is thermally and electrically insulated from the electrical circuit, eliminating self-heating effects. Only the temperature of the controlled equipment or its adjacent environment causes the switch to actuate.

Switch operation is rapid and positive due to the characteristics of the bimetallic disc and wiping action of the current carrying contacts. Contact chattering is virtually eliminated, as is false cycling and sparking. The thermostats are enclosed in compact, rugged, tamper-proof cases designed for quick and easy installation in the controlled equipment. Exposed disc and single operation models available.

Models available from stock - subject to availability Fan Controls • SES-F - Close On-Rise (normally open)

	\ , ,				
Model Number	Temperature Ranges				
Woder Number	Open °F	Close °F			
SES-F058	44 ± 9	58 ± 5			
SES-F120H*	100 ± 9	120 ± 5			
SES-F130	115 ± 9	130 ± 5			
SES-F140	140 ± 9	120 ± 5			
SES-F200H*	160 ± 9	200 ± 5			

Horizontal terminals

SPECIFICATIONS

Electrical ratings 120VAC, 240VAC, 25 Amps, Resistive, 60Hz 120VAC, 10FLA, 60LRA, 60Hz, Inductive

240VAC, 5FLA, 30LRA, 60Hz, Inductive

100,000 Cycles

Temperature range 33°F to 302°F (1°C to 150°C)

(UL Models)

Differential

Approvals

Temperature range 302°F to 350°F (150°C to 177°C)

(Non-UL Models)

14°F to 100°F (8°C to 56°C) - SPST Models

27°F to 100°F (15°C to 56°C) - SPDT Models

Dielectric strength 1.500VAC/1 minute

UL Recognized File No. E145478(S), XAPX2

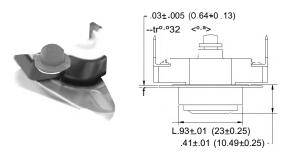
C-UL Recognized File No. E145478(S), XAPX8

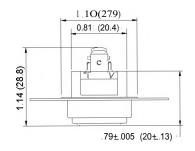
Models available from stock - subject to availability Limit Controls • SES-L - Open On-Rise (normally closed)

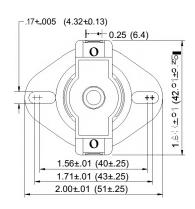
(
Model Number	Temperature Ranges				
Woder Number	Open °F	Close °F			
SES-L110	110 ± 7	96 ± 9			
SES-L120	120 ± 7	106 ± 9			
SES-L150	150 ± 7	130 ± 9			
SES-L180	180 ± 7	150 ± 9			
SES-L190	190 ± 7	160 ± 9			
SES-L213H*	213 ± 7	155 ± 9			
SES-L250	250 ± 7	220 ± 9			
SES-L275H*	275 ± 7	245 ± 9			

^{*} Horizontal terminals

3/4" Disc Thermostats - Manual Reset SE and SES (T10/T11) Series - Airstream and Surface Mount







FEATURES

- · 25 Amp capacity
- Operation up to 350°F
- Factory calibrated to your specifications

APPLICATIONS

- H.V.A.C.
- · Major appliances
- · Vending machines

Selco thermostats are widely used to control or protect high-power home appliances like dryers, dishwashers, home water heaters, and solar heaters. The switch mechanism is actuated by a snap-action bimetal disc, which may be enclosed or exposed.

Made to open on temperature rise, these SPST devices are available in a variety of mounting configurations. Temperature calibrations are preset and typically built to order. These units are not considered as "M2" trip free devices. Consult Selco for additional models available from stock.

Models available from stock - subject to availability Limit Controls • SES-L - Open On-Rise (normally closed)

Model Number	Temperature Ranges
Model Number	Open °F
SES-L200M*	200 ± 11
SES-L250HM*	250 ± 14
SES-L265HM*	265 ± 14
SES-L350M*	350 ± 16

^{*} Mounting Configuration: Surface

SPECIFICATIONS

Electrical ratings 120VAC, 240VAC, 25 Amps, Resistive, 60Hz

120VAC, 10FLA, 60LRA, 60Hz, Inductive 240VAC, 5FLA, 30LRA, 60Hz, Inductive

5,000 Cycles

Temperature range 33°F to 302°F (1°C to 150°C)
(UL Models)

Temperature range 302°F to 350°F (150°C to 177°C)

(Non-UL Models)

Dielectric strength 1,500VAC/1 minute

Approvals

UL Recognzied File No. E145478(S), XAPX2
C-UL Recognized File No. E145478(S), XAPX8

Models available from stock - subject to availability
Limit Controls • SE-L - Open On-Rise (normally closed)

Zimit Controls & GE E Open on Rise (normany sieces)				
Model Number	Temperature Ranges			
	Open °F			
SE-L090M*	90 ± 11			
SE-L120M*	120 ± 11			
SE-L130M*	130 ± 11			
SE-L160M*	160 ± 11			
SE-L170HM*	170 ± 11			
SE-L200M*	200 ± 11			
SE-L250M*	250 ± 14			
SE-L350M*	350 ± 16			

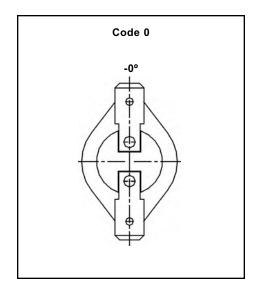
^{*} Mounting Configuration: Airstream

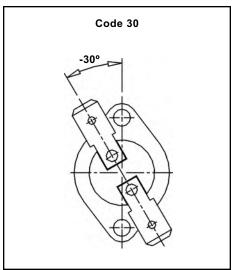
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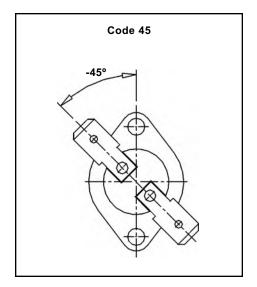


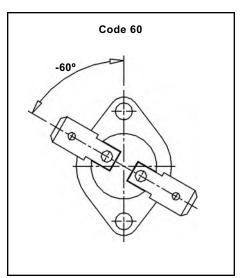
Special Order Terminal Orientations

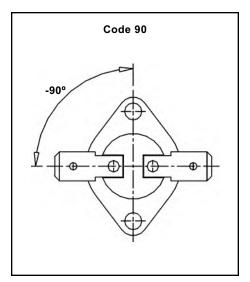
For SE and SES (T10 and T11) Series

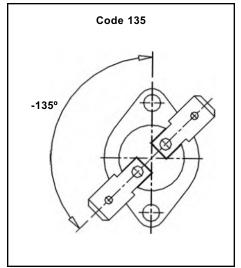


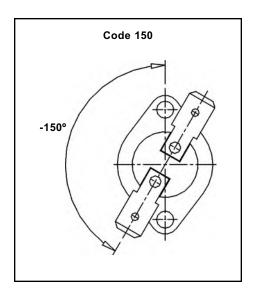












Special Order Map For SE and SES (T10 and T11) Series

Model Reset Electrical Terminal Type Terminals Orientation Orientation OF Differential OF OF Terminal Orientation OF OF OF OF

Model

T10 SE Series - Airstream Mount - refer to pages 17-19
T11 SES Series - Surface Mount - refer to pages 17-19

Reset

- 1 Automatic
- 2 Manual (Open On-Rise Only)
- 3 Single operation

Electrical Function

1	Open on-rise (normally closed)	—○——○— (S.P.S.T.)
2	Close on-rise (normally open)	1 3 S.P.S.T.)
3	Single pole - double throw	S.P.D.T.)
		ā.

Terminal Type

- 3 .250 quick connects Faston (6.3mm male)
- 4 M4 (4mm screw)
- 5 S.P.D.T.:
 - .250 quick connects Faston 6.3mm male .250 quick connects - Faston 6.3mm - female .187 quick connects - Faston 4.8mm - male
- 6 #8-32 screw

Terminals

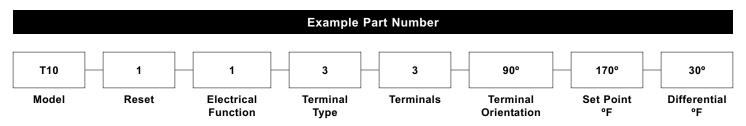
1 Horizontal3 Vertical

Terminal Orientation (from mount holes) - refer to page 21

Code 0	0°
Code 30	30°
Code 45	45°
Code 60	60°
Code 90	90°
Code 135	135°
Code 150	150°

Set Point (specify in °F)

Differential (specify in °F)



Encapsulated Thermostats

SEO (T) Series

FEATURES

- 10 and 25 amp loads
- Dust and moisture proof
- Wide range of operating temperatures
 Air conditioners

APPLICATIONS

- Freezers
- Refrigerators

The SEO (T) Series automatic reset thermostat was designed for humid environments. A resin filled thermoplastic cap covers the thermostat. The fixed factory calibrated bimetal disc is located adjacent to the surface to be monitored. This will provide a rapid response to temperature changes. Each device is built to open or close on rise at any desired set point.

Lead wires are normally 6" in length. Custom lead lengths are available. The T16 an T17 models are available with #18 gauge wire. Models T21 and T22 are available with #14 gauge wire. Numerous types of terminals can be furnished at an extra cost.

For use in millivolt applications, the T Series carries a 12Vdc, 250mA rating.

SPECIFICATIONS

-4°F to 212°F (-20°C to 100°C) Temperature range

Differential (minimum) 20°F (11°C), S.P.S.T.

Temp range: -4°F to 32°F (-20°C to 0°C)

14°F (8°C), S.P.S.T.

Temp range: 32°F to 212°F (0°C to 100°C)

27°F (15°C) minimum, S.P.D.T.

Environmental temperature -4°F to 212°F (-20°C to 100°C)

Electrical ratings

T16 and T17 Models

120VAC, 10 Amps, Resistive, S.P.S.T. 120VAC, 5.8 Amps, Inductive, S.P.S.T.

250VAC, 5 Amps, Resistive, S.P.S.T. 250VAC, 2.9 Amps, Inductive, S.P.S.T.

100,000 Cycles

T21 and T22 Models 220VAC, 25 Amps, S.P.S.T. or S.P.D.T.

100,000 Cycles

T60 Model 120/250VAC, 16 Amps, S.P.S.T.

Dielectric strength

T16 and T17 Models 1500VAC/1 minute T21 and T22 Models 1480VAC/1 minute

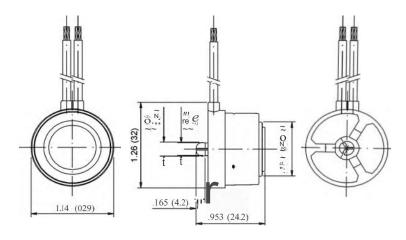
Approvals UL Recognized File No. E145478(S), XAPX2

C-UL Recognized File No. E145478(S), XAPX8

RoHS Compliant

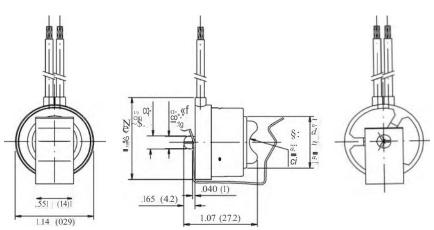
T16 Model - Without Bracket Stainless steel cover





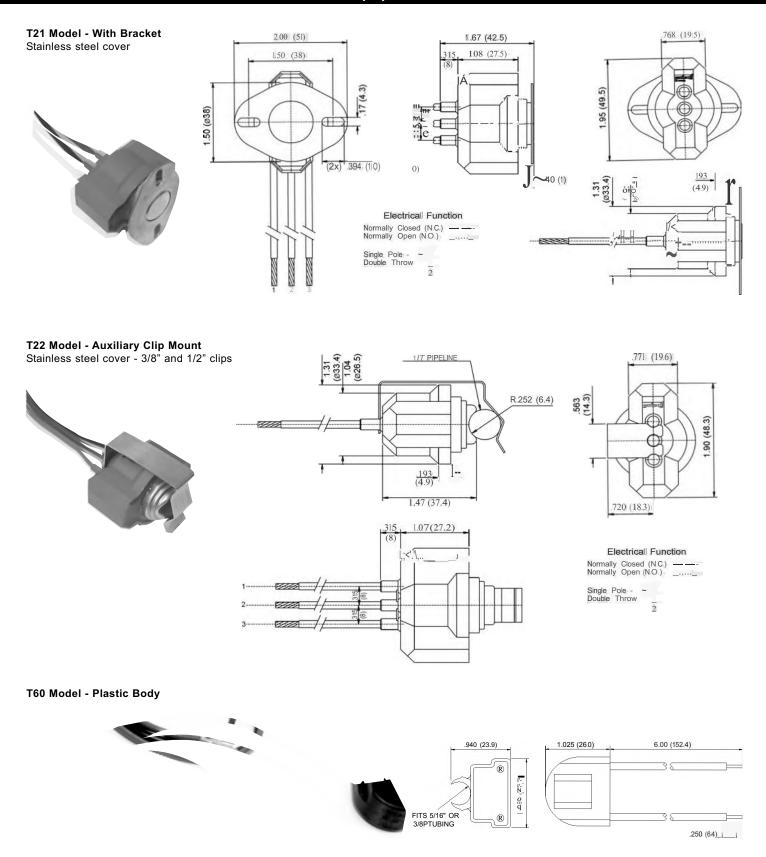
T17 Model - Auxiliary Clip Mount Stainless steel cover - 3/8" Clip - complete clips available





Encapsulated Thermostats

SEO (T) Series



Encapsulated Thermostats Special Order Map for SEO (T) Series

Build Your Own Part Differential Electrical Lead Lengths Model Set Point (°F) Tube **Function** (°F) (inches)

Model

T16 Without bracket - stainless steel cover (refer to page 23)

T17 Auxiliary clip mount - stainless steel cover - 3/8" clip (refer to page 23)

T21 With bracket - stainless steel cover (refer to page 24)

Auxiliary clip mount - stainless steel cover - 3/8" and 1/2" clips (refer to page 24) T22

T60 Plastic body (refer to page 24)

Electrical Function

S.P.S.T. - Open on-rise (normally closed) 2 S.P.S.T. - Close on-rise (normally open)

S.P.D.T. (T21 and T22 models only)

Set Point (specify in °F)

Differential (specify in °F)

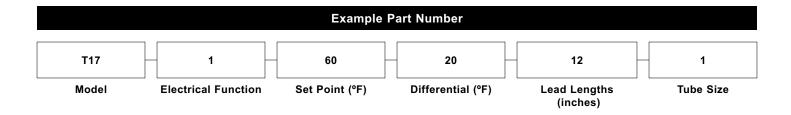
Lead Length (specify in inches) - standard lead length: 6"

Tube Size

(T17, T22 and T60 models only)

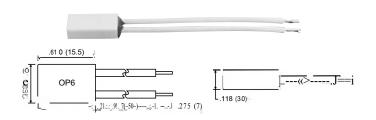
2 (T22 model only)

5/16" (T60 model only)



Thermal Protector

OP6 Series (Close On-Rise) and UP6 Series (Open On-Rise)



FEATURES

- Low cost
- PBT enclosure
- Snap-action bimetal technology

APPLICATIONS

- Transformers
- Motor protection
- Timer applications
- · Alarm signal controller

The OP6 Series (OP6, OP61, OP62) thermal protectors close an electrical circuit. They are a snap-action device with quick make/quick break, fast sensing and switching action. These self-resetting devices feature a reinforced PBT-enclosure which make additional sleeving unnecessary. Various leads and terminations are available.

.61 0 (15.5) UP6 .21...._.9!._7(~50~)----,.j.-1. --_.-.l .275 (7)

FEATURES

- PBT enclosure
- Not current sensitive
- Suitable for PCB mounting

APPLICATIONS

- Solenoids
- Motor protection
- Lighting ballasts

The UP6 Series (UP6, UP61 and UP62) PBT enclosed thermal protectors, the smallest thermal protector available, features an excellent performance in thermal response due to the compact miniature design and unique engineering techniques of bimetal disc mounting.

SPECIFICATIONS

Variations OP6 **OP61**

OP62

Without lead wires, 2 welding terminals

Uninsulated solid wires, bare

Stranded insulated wires, tin-coated - 24AWG

Standard lead length: 50mm + 7mm 140°F to 284°F (60°C to 140°C)

Temperature range ±9°F (±5°C) Standard Temperature tolerance Standard differential 50°F±25°F (30°C±15°C)

Electrical ratings 125VAC, 4 Amps, Resistive, 10,000 Cycles 250VAC, 2.5 Amps, Resistive, 10,000 Cycles

50m Ω or less (initial value)

Approvals & contact ratings

Contact resistance

UL873

OP6, OP61 and OP62 Models

Regulating

125VAC, 4 Amps, Resistive, 6,000 Cycles 284°F maximum (140°C maximum)

File No. E50124

OP6, OP61 and OP62 Models

Std. C22.2, No. 24 - Regulating (c-UL) 125VAC, 4 Amps, Resistive, 6,000 Cycles 284°F maximum (140°C maximum) File No. E50124)

Thermal Cut-Out

EN60730-2-2

OP6, OP61 and OP62 Models

Thermal Motor Protector 250VAC, 284°F maximum (140°C maximum)

File No. 8921.00-4510-0026

EN60730-2-9

OP6, OP61 and OP62 Models

250VAC, 2.5 Amps, Resistive, 10,000 Cycles 250VAC, 1.6 Amps, Inductive, 10,000 Cycles

284°F maximum (140°C maximum) File No. 8921.00-4510-0027

EN60730-2-9

OP61G and OP62G Models

Thermal Cut-Out 250VAC, 0.5 Amps, Resistive, 10,000 Cycles 284°F maximum (140°C maximum)

File No. 8921.00-4510-0027

RoHS Compliant

Contact system

OP6, OP61, and OP62 Models Close on-rise (normally open)

Silver contacts

OP6#G

Close on-rise (normally open) PGS (Platinum/Gold/Silver alloy) cross-bar

contacts for micro electric load of electronic

applications

SPECIFICATIONS

Variations UP6 UP61

Temperature range

UP62

Without lead wires Uninsulated solid wires

Stranded insulated wires - 24AWG Standard lead length: 50mm + 7mm 140°F to 284°F (60°C to 140°C)

Temperature tolerance ±9°F (±5°C) Standard Standard differential 50°F±25°F (30°C±15°C)

Electrical ratings 125VAC, 4 Amps, Resistive, 10,000 Cycles 250VAC, 2.5 Amps, Resistive, 10,000 Cycles

Contact resistance

Approvals & contact ratings **UL873**

UP6, UP61 and UP62 Models

Regulating 125VAC, 4 Amps, Resistive, 6,000 Cycles 284°F maximum (140°C maximum)

C22.2, No. 24 (c-UL) - Regulating

50m Ω or less (initial value)

File No. E50124

UP6, UP61 and UP62 Models

125VAC, 4 Amps, Resistive, 6,000 Cycles 284°F maximum (140°C maximum) File No. E50124

EN60730-2-2 Thermal Motor Protector

UP6. UP61 and UP62 Models 250VAC, 284°F maximum (140°C maximum)

File No. 8921.00-4510-0026

EN60730-2-9

UP6, UP61 and UP62 Models

Thermal Cut-Out 250VAC, 2.5 Amps, Resistive, 10,000 Cycles 250VAC, 1.6 Amps, Inductive, 10,000 Cycles

284°F maximum (140°C maximum)

EN60730-2-9

Contact system

UP6#G Models

UP61G and UP62G Models

Thermal Cut-Out 250VAC, 0.5 Amps. Resistive, 10,000 Cycles 284°F maximum (140°C maximum)

File No. 8921.00-4510-0027

UP6, UP61, and UP62 Models

Open on-rise (normally closed)

Silver contacts

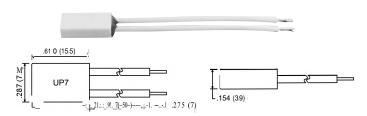
RoHS Compliant

Open on-rise (normally closed)

PGS (Platinum/Gold/Silver allov) cross-bar contacts for micro power applications

Thermal Protector

UP7 Series (Open On-Rise) and UI2 Series (Open On-Rise)



FEATURES

- Low cost
- Durable plastic case
- Smallest motor protector approved by UL

APPLICATIONS

- Solenoids
- Small motors
- **Transformers**
- Electronic appliances

The UP7 Series (UP7, UP71, UP72) PBT enclosed thermal protectors are compact 1/2HP (373W) motor protectors. The unique engineering techniques of holding the bimetal disc result in excellent performance in heat response.

.984 (25.0) .---111::::=<u>----</u>s _-----~ 11 t .209 cs.3)

FEATURES

- PBT enclosure
- Designed for high rated motors
- Snap-action bimetal technology

APPLICATIONS

- Power supplies
- Motor protection
- The PBT enclosed UI2 Series offers both thermal conductivity

Electronic appliances

and electrical insulation with no need for additional insulation sleeves. With its large current carrying capacity, the UI2 Series is ideal for more demanding applications and solutions.

SPECIFICATIONS

Variations UP7 Without lead wires, 2 welding terminals UP71 Uninsulated solid wires, bare UP72 Stranded insulated wires, tin-coated - 22AWG Standard lead length: 50mm + 7mm 140°F to 302°F (60°C to 150°C) Temperature range

Temperature tolerance ±9°F (±5°C) Standard Standard differential 50°F±25°F (30°C±15°C)

Electrical ratings 125VAC, 4 Amps, Resistive, 10,000 Cycles 250VAC, 2.5 Amps, Resistive, 10,000 Cycles

Contact resistance 50m Ω or less (initial value)

Approvals & contact ratings

EN60730-2-2 Thermal Motor Protector UP7 Model

250VAC, 302°F maximum (150°C maximum)

File No. 8921.00-4510-0026

EN60730-2-9 Thermal Cut-Out

250VAC, 2.5 Amps, Resistive, 10,000 Cycles UP7 Model 250VAC, 1.6 Amps, Inductive, 10,000 Cycles

302°F maximum (150°C maximum)

File No. 8921.00-4510-0027

Motor Protector UP71 and UP72 Models

125V/250VAC. 1/2HP maximum 302°F maximum (150°C maximum)

File No. E52703

CSA Std. C22.2, No. 77 - Motor Protector UP71 and UP72 Models 125V/250VAC, 1/2HP maximum

302°F maximum (150°C maximum)

File No. E52073

Std. C22.2, No. 77 - Motor Protector

125V/250VAC, 3.75FLA File No. LR35080

EN60730-2-2 Thermal Motor Protector

UP71 and UP72 Models 250VAC, 302°F maximum (150°C maximum)

File No. 8921.00-4510-0026

EN60730-2-9 Thermal Cut-Out

UP71 and UP72 Models 250VAC, 2.5 Amps, Resistive, 10,000 Cycles 250VAC, 1.6 Amps, Inductive, 10,000 Cycles

302°F maximum (150°C maximum)

File No. 8921.00-4510-0027

RoHS Compliant

Contact system

UP7, UP71, and UP72 Models Open on-rise (normally closed)

Silver contacts

SPECIFICATIONS

Variation Stranded insulated wires - 20AWG Temperature range 140°F to 302°F (60°C to 150°C)

Temperature tolerance ±9°F (±5°C) Standard Standard differential 50°F±25°F (30°C±15°C)

Electrical ratings 125VAC, 12 Amps, Resistive, 6,000 Cycles 250VAC, 10 Amps, Resistive, 10,000 Cycles

Contact resistance 50m Ω or less (initial value)

Approvals & contact ratings

CMJ Registration No. J-22

125VAC, 8 Amps, Resistive, 10,000 Cycles

266°F maximum (130°C maximum)

UI 2111 Motor Protector

125VAC. 1/2HP maximum

302°F maximum (150°C maximum)

File No. E52703

UL873

125VAC, 6 Amps, Resistive, 100,000 Cycles

284°F maximum (140°C maximum)

File No. E50124

Regulating

125VAC, 12 Amps, Resistive, 6,000 Cycles

284°F maximum (140°C maximum)

File No. E50124

Std. C22.2, No. 77 - Motor Protector

125VAC, 293°F maximum (145°C maximum)

File No. LR35080

Std. C22.2, No. 24 - Regulating

125VAC, 6 Amps, Resistive, 100,000 Cycles

293°F maximum (145°C maximum)

File No. LR35080

EN60730-2-2 Thermal Motor Protector

250VAC, 311°F maximum (155°C maximum)

File No. 8921.00-4510-7028

E60730-2-9 Thermal Cut-Out

250VAC, 10 Amps, Resistive, 1,000 Cycles 250VAC, 8 Amps, Inductive, 1,000 Cycles 250VAC, 10 Amps. Resistive, 10,000 Cycles From 131°F to 311°F (55°C to 155°C)

File No. 8921.00-4510-7029

RoHS Compliant

Contact system UI2

CSA

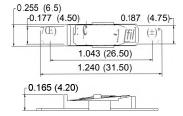
Open on-rise (normally closed)

Thermal Protectors - Self Hold

UB8P and UB81P Series

UB8P Model





FEATURES

- · Phenol resin base
- Built-in PTC heater for self-hold
- Quick thermal response due to exposure of the bimetallic element

APPLICATIONS

- Mixers
- Blenders
- Grinders
- Dishwashers
- Space heaters

Models UB8P (exposed model - shown above) and UB81P (enclosed model) Self-Hold Thermal Cut-Out and Thermal Protectors are designed to provide overheat protection in high voltage applications. With a high 16 Amp capability, the new models are well suited for thermal overload protection in a broad range of applications.

The body of these surface mount devices are manufactured of phenolic resin and feature a new patent pending partition wall design that isolates the switch from the main body. This design effectively controls arcing that can cause a break in voltage contact (particularly in 250V applications), ensuring continuous operation to setpoint. The UB81P features a reinforced PBT enclosure for dust-proof applications; the UB8P has an exposed bi-metallic element for high accuracy and fast response to ambient air temperature.

Both models incorporate a "self-hold" non-self resetting function that provides a high level of operational safety, especially in appliances with moving parts. The "self-hold" function ensures that after the element reaches its pre-set open temperature, the internal heater activates to maintain a self-regulating temperature, preventing the switch from resetting until the user disconnects the power.

SPECIFICATIONS

Temperature range (UL Approved models)

Environmental temperature

Differential

Electrical ratings

Contact resistance

Approvals & contact ratings

e ±9°F (±5°C) Standard

50°F±25°F (30°C±15°C)

167°F to 257°F (75°C to 125°C)

125VAC, 16 Amps, Resistive, 6,000 Cycles

 $50m \Omega$ or less (initial value)

Regulating (manual reset)

125VAC, 16 Amps, Resistive, 6,000 Cycles

257°F Maximum (125°C Maximum)

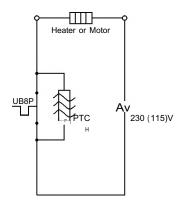
File No. E50124

EN60730-2-9 Temperature Limiter

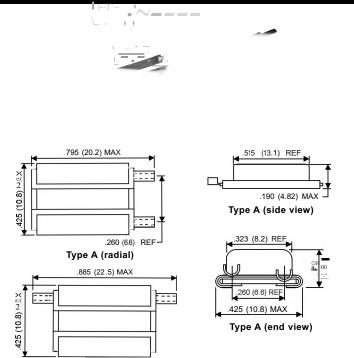
250VAC, 10 Amps, Resistive, 6,000 Cycles 250VAC, 5 Amps, Inductive, 6,000 Cycles 257°F Maximum (125°C Maximum)

File No. 8921.00-4521-0039

RoHS Compliant



Thermal Protectors S7AM Series (Open On-Rise)



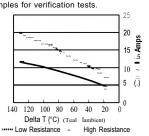
The S7AM Thermal Protector is a thermally operated snapaction device which delivers the maximum protection in the smallest package. The operating principle of the S7AM is both simple and effective. At the heart of the protector is a bimetal snap-action disc. When the temperature of this disc reaches its calibrated temperature it snaps open, resulting in an open circuit. This temperature is reached by either an increase in ambient temperature, an increase in current flowing through the disc, or a combination of both. After the S7AM breaks the circuit, the system cools and the S7AM automatically resets allowing power to be restored to the

Each S7AM rating has a bimetal disc designed and manufactured for that specific temperature rating. Each individual device is then calibrated and checked for opening temperature. This results in precise operating characteristics necessary to achieve consistent, reliable performance over the required life cycle.

Ultimate Trip Current vs. **Delta Temperature**

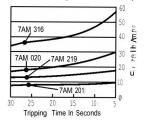
Type B (axial)

Approximation, to be used only for selecting samples for verification tests



Note: Delta T is the difference between the zero current calibrated opening temperature (T_{cal}) and ambient temperature (T_{ambient}) at the protector location.

Average First Cycle Tripping Time vs. Current (25°C Ambient)



FEATURES

- · Miniature size
- Gasket steel case
- Individually temperature tested and calibrated
- Wide selection of leads and insulating sleeves
- Positive make and break with snap-action disc
- Repeatable temperature performance over life

APPLICATIONS

- HID ballasts
- **Transformers**
- Battery packs
- Lighting ballasts
- Vacuum cleaners
- Split capacitor motors
- Automotive accessory, solenoids, PC boards and other applications

SPECIFICATIONS

Electrical ratings 16VDC, 20 Amps, 10,000 Cycles 120VAC, 22 Amps, 10,000 Cycles 277VAC, 8 Amps, 10,000 Cycles 600VAC, 4 Amps, 10,000 Cycles

Dielectric strength 900 Volts

Approvals UL File Numbers found under Texas Instr. 7AM

UL2111 Motor Protection - File E15962 UI 873 Limit and Regulating Controls - File E34618

CSA Std. C22.2, No. 77 - Motor Protection

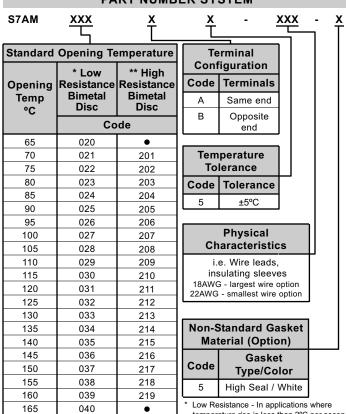
> File No. 11372 Std. C22.2, No. 74

Limit and Regulating Controls - File No. 24458

KEMA (ENEC) EN60730-2-2 Motor Protection - File No. 2014531.03 KEMA (ENEC) EN60730-2-3 Ballast Protection - File No. 2014531 03 KEMA (ENEC) EN60730-2-9 Thermal Cut-Out - File No. 2014531.03

RoHS Compliant

PART NUMBER SYSTEM



temperature rise is less than 2°C per second High Resistance - In applications where

It is the customer's sole responsibility to specify and determine the suitability of a particular control or component based on their unique individual applications and requirements

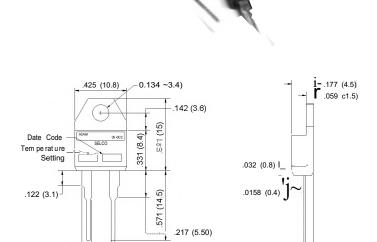
170

336

316

Printed Circuit Board Thermostats

802 Series



FEATURES

.08 (2.0)

· Conforms to Y220/TO220 package

.031 (0.8)

.2 (5.1)

- Ultra compact design
- · Gold plated silver contacts

APPLICATIONS

.0158 (0.4)-Ift

- Computers
- Test equipment

-.063 (1.6)

Power supplies

The Selco 802 Series is a miniature bimetal thermostat. This PCB unit conforms to the international Y220/TO220 package. The SPST snap-action contact is available normally open or normally closed at a factory set point range of 104°F to 284°F.

SPECIFICATIONS

Electrical ratings 48VDC, 1 Amp, Resistive, 30,000 Cycles 120VAC, 1 Amp, Resistive, 30,000 Cycles 5VDC, 20mA, Resistive, 100,000 Cycles

Temperature range One fixed set point

104°F to 248°F (40°C to 120°C)

Differential 27°F (15°C)
Environmental temperature 284°F (140°C)
Dielectric strength 1,500VAC/1 minute

1,500VAC/1 minute between terminals and cover

PBT (Polybutylene Terephtalate) UL-94 VO

Circuit resistance 50m Ω or less

Tin plated brass

Gold plated silver

Body housing Terminals Contacts

Materials

Approvals Temperature indicating and regulating

UL873, CUL (CSA), CE

UL Recognized File No. E145478(S), XAPX2 C-UL Recognized File No. E145478(S), XAPX8

VDE File No. E-14713 RoHS Compliant Models available from stock - subject to availability 802-F - Close On-Rise (normally open)

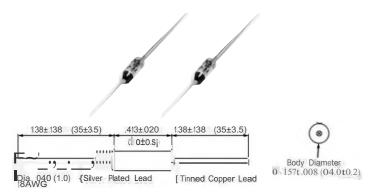
	Temperature Ranges				
Model Number	Clos	sing	Reset		
Number	±9°F	±5°C	±12°F	±7°C	
802F-040	104	40	77	25	
802F-045	113	45	86	30	
802F-050	122	50	95	35	
802F-055	131	55	104	40	
802F-060	140	60	113	45	
802F-065	149	65	122	50	
802F-070	158	70	131	55	
802F-075	167	75	140	60	
802F-080	176	80	149	65	
802F-085	185	85	158	70	
802F-090	194	90	167	75	
802F-095	203	95	176	80	
802F-100	212	100	185	85	
802F-105	221	105	194	90	
802F-110	230	110	203	95	
802F-115	239	115	212	100	
802F-120	248	120	221	105	

Models available from stock - subject to availability 802-L - Open On-Rise (normally closed)

	Temperature Ranges				
Model Number	Ope	ning	Reset		
Number	±9°F	±5°C	±12°F	±7°C	
802L-040	104	40	77	25	
802L-045	113	45	86	30	
802L-050	122	50	95	35	
802L-055	131	55	104	40	
802L-060	140	60	113	45	
802L-065	149	65	122	50	
802L-070	158	70	131	55	
802L-075	167	75	140	60	
802L-080	176	80	149	65	
802L-085	185	85	158	70	
802L-090	194	90	167	75	
802L-095	203	95	176	80	
802L-100	212	100	185	85	
802L-105	221	105	194	90	
802L-110	230	110	203	95	
802L-115	239	115	212	100	
802L-120	248	120	221	105	

One Shot Thermal Cutoffs

SWTC Series



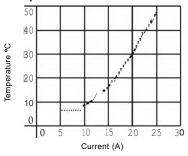
- Special lead lengths are available
- Color Band does not denote temperature group
- Stock models have 35mm ± 3.5mm lead lengths

Models available from stock - subject to availability

Model Number	Functioning Temperature (T _F)		Tolerance (T _F)	Tempe	ding erature H ⁾	UL/ cUL	VDE
	°C	°F		°C	°F		
SWTC-162-3535	72	162	Α	47	117	•	•
SWTC-170-3535	77	171	Α	52	126	•	•
SWTC-183-3535*	84	183	В	57	135	•	•
SWTC-194-3535*	90	194	Α	65	149	•	•
SWTC-196-3535*	91	196	В	66	151	•	•
SWTC-199-3535*	93	199	В	68	154	•	•
SWTC-208-3535	98	208	Α	73	163	•	•
SWTC-212-3535*	100	212	В	75	167	•	•
SWTC-228-3535*	109	228	В	84	183	•	•
SWTC-250-3535*	121	250	В	94	201	•	•
SWTC-259-3535	126	259	Α	100	212	•	•
SWTC-262-3535	128	262	В	103	217	•	•
SWTC-282-3535*	139	282	Α	114	237	•	•
SWTC-291-3535*	144	291	В	119	246	•	•
SWTC-306-3535	152	306	Α	127	261	•	•
SWTC-333-3535	167	333	Α	144	291	•	•
SWTC-336-3535	169	336	Α	114	291		
SWTC-363-3535	184	363	С	159	318	•	•
SWTC-378-3535	192	378	С	162	324		
SWTC-383-3535	195	383	С	165	329	•	•
SWTC-421-3535	216	421	С	178	352		•
SWTC-442-3535*	228	442	С	187	369	•	•
SWTC-464-3535*	240	464	С	193	379	•	•

- T_F Functioning Temperature: Temperature at which the thermal cutoff will open + A, B or C tolerances
- Hold Temperature: The maximum temperature at which a thermal cutoff can be maintained while conducting rated current for 168 hours which will not cause a change in state of the conductivity to open the circuit
- -- Applied but not approved

Temperature/Current Correlation Curve



FEATURES

- Low cost
- Excellent contact rating
- Quick and easy installation

APPLICATIONS

- Motors
- Appliances
- · Personal care

Thermal cutoffs are designed to provide upper limit temperature protection for many electronic products. Under normal operating temperature, the solid pellet compresses a spring which holds the star contact against the isolated lead. When a fault temperature is reached, the pellet melts and the circuit is opened permanently.

It is important to allow sufficient time to determine the proper and best location for a thermal cutoff. The location will affect the cutoff's ability to protect your product. Placing in the highest temperature area is usually best.

SPECIFICATIONS Electrical ratings 125/250VAC, 10 Amps, Continuous Duty 125/250VAC, 15 Amps, Interrupting Current 125/250VAC, 10 Amps, Continuous Duty **Dual electrical ratings** for continuous duty 125VAC, 15 Amps, Continuous Duty (models listed with a *) 125/250VAC, 15 Amps, Interrupting Current Temperature tolerance $A = +0^{\circ}F/-7^{\circ}F (+0^{\circ}C/-4^{\circ}C)$ (refer to p/n chart) $B = +0^{\circ}F/-9^{\circ}F (+0^{\circ}C/-5^{\circ}C)$ (refer to p/n chart) $C = +0^{\circ}F/-11^{\circ}F (+0^{\circ}C/-6^{\circ}C)$ (refer to p/n chart) UL Recognized Component, CSA, VDE **Approvals** RoHS Compliant

* Due to the TCO body being electrically live, Selco offers an insulation sleeve. Consult Selco for details.

Determining The Proper Series

- тр The highest temperature of the product to which a cutoff is to be attached
- тн The safe temperature range for use of the cutoff
- $T_F T_H = T_S$ Where $T_F = T_S$ the functioning temperature (24°C less than or equal to TS less · T_S than or equal to 40°C)
- · т_D The heating temperature caused by electrical load
- · +a 1. Self heating of lead wire
 - 2. Structure of ventilation or air tightness
 - 3. Location of connecting terminal
 - Thickness of insulated covering material
 - 5. Best condition value, electric voltage changes considered

TP + TS + TD + a = Applicable Temperature

Installation Instructions

The performance of thermal cutoff requires proper handling during installation for it to operate in its intended manner. These instructions are intended to be used to reduce the risk of malfunction of the thermal cutoff which may result from improper installation during forming of leads, splicing, welding and soldering.

1. Bending Leads

Care should be taken when forming the Thermal Cutoff (TCO) leads. The TCO leads must be supported 1/8" from bend and epoxy. This will prevent the epoxy seal from cracking which may result in premature degradation of the pellet. A close visual inspection should be performed to make sure that the TCO leads have not been cut, nicked, folded sharply, fractured or burned.

2. Mechanical Forces During Appliance Connection

- a. When installing the TCO, avoid unnecessary bending, twisting, pulling or pushing on the TCO leads. Care should be taken to avoid cracking or chipping of the epoxy, which may result from sharp twisting or bending of the lead.
- b. The TCO body must maintain its cylindrical shape to function properly. Excessive clamping could cause denting or crushing of the TCO body, which may lead to failure. X-ray and visual inspection of the TCO will determine if the fuse body has been damaged.
- c. Note that the TCO body is electrically live and must be insulated before applying a metal clamp over the TCO body.
- d. Care should be used when pushing the epoxy end lead to avoid the lead being forced into the TCO body. This could result in a failure.

Probe Thermostats BPO/BPC and CPO/CPC Series

APPLICATIONS

- HVAC
- Refrigeration
- Hydraulic systems
- Motors



BPO/BPC Series

- Heaters
- Cooking equipment
- Diesel/Automotive engines



CPO/CPC Series

BPO/BPC and CPO/CPC Series - SPECIFICATIONS

Snap Action Models Electrical ratings Silver contacts

125VAC, 15 Amps, Resistive, 10,000 Cycles 250VAC, 10 Amps, Resistive, 10,000 Cycles Gold contacts available

Consult Selco for other electrical ratings

120VAC, 5.8FLA, 34.8LRA, 6,000 Cycles 240VAC, 2.9FLA, 17.4LRA, 6,000 Cycles

 Temperature range
 50°F to 200°F (10°C to 260°C)

 Differential
 15°F-100°F (8°C ± 56°C)

Creep Action Models Electrical ratings Silver contacts

Temperature range Differential

Inductive load ratings

120/240VAC, 6 Amps, Resistive, 100,000 Cycles 120VAC, 5 Amps, Inductive, 100,000 Cycles

Gold contacts available

Consult Selco for DC applications 41°F to 400°F (5°C to 204°C)

None - creep-action

±9°F (±5°C)

Insulation resistance 100M Ω or more (with a 500VDC megger)

 Circuit resistance
 $50m \Omega$ or less (initial value)

 Dielectric strength
 1500VAC/1 minute

 Pressure rating
 Consult Selco

Materials
Body & tube

Headfill Contacts Wire

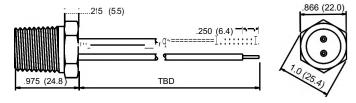
Tolerance

Brass or stainless steel

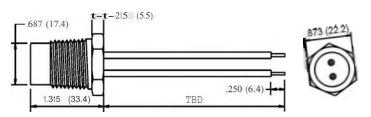
Epoxy filled Silver or gold

18AWG, UL3173, Black 18AWG, UL1015, Black Other lead options available Selco probe thermostats are thermally sensitive bimetallic switches which when reaching a fixed factory set temperature, either opens or closes to break or make an electrical circuit. They reset automatically on cooling. Some devices can be used as controlling thermostats which cycle open and close more rapidly to maintain temperature level. Other devices can be used as over temperature protectors to limit a temperature from exceeding a predetermined value (safety device). The unit may be immersed safely in liquids under substantial pressure allowing thermostatic control to be achieved in the chemical, automotive, aerospace, HVAC, and environmental fields. Custom probe housings available, consult Selco for other models available from stock.

BPO/BPC Series



CPO/CPC Series



Special Model Designations for BPO/BPC and CPO/CPC Series

Style No.	Thread NPT	2-Pipe Thread NPT	Tube Length (inches)	Material
P11	1/2	-	0.35	stainless
P12	1/2	-	0.625	stainless
P13	1/2	1/4	0.5	brass
P14	1/2	-	0.625	brass
P17	1/2	-	-	brass
P18	1/2 x 1/4	-	1.5	stainless





Probe Thermostats SIC/SIO Series

SIC/SIO Series



SIC/SIO Series

SIC/SIO Series - SPECIFICATIONS

Creep Action **Electrical ratings** Silver contacts

120/240VAC, 6 Amps, Resistive, 100,000 Cycles 120VAC, 5 Amps, Inductive, 100,000 Cycles

Gold contacts available

Consult Selco for DC applications 41°F to 400°F (5°C to 204°C)

Temperature range Differential

None - creep-action

Tolerance

±9°F (±5°C)

Consult Selco for special tolerances

Snap Action Electrical ratings Silver contacts

125VAC, 4 Amps, Resistive, 10,000 Cycles 250VAC, 2.5 Amps, Resistive, 10,000 Cycles

Gold contacts available

Consult Selco for other electrical ratings

Temperature range 131°F to 302°F (55°C to 150°C) Differential 50°F ± 25°F (30°C ± 15°C)

Tolerance Pressure rating Materials

±9°F (±5°C) Consult Selco

Body & tube Headfill

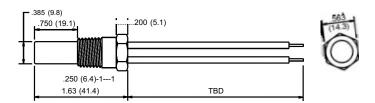
Contacts

Wire

Brass or stainless steel - 1/4" NPT, 3/8" NPT

Epoxy filled Silver or gold

18AWG, UL3173, Black 18AWG, UL1015, Black Other lead options available



Special Model Designations for SIC/SIO Series

openial incust 2001g. actions for old control					
Style No.	Thread NPT	2-Pipe Thread NPT	Tube Length (inches)	Material	
P01	1/4	-	0.75	brass	
P02	3/8	-	1	brass	
P04	1/4	-	2	stainless	
P05	1/2 x 1/4	-	1.25	brass	
P06	1/4	-	0.636	stainless	
P20	3/8	-	1	stainless	
P21	1/4	-	1	stainless	





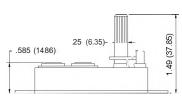
Fixed or Adjustable Thermostats

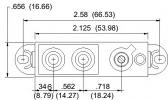
S200A & S200-F-1 Series



Model S200-A

Control knob sold separately Knob part number: S150-250 (no line) S151-250 (with line) Cap part number: C150 (no line) C151 (with line)

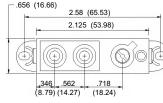




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Model S200-F-1



FEATURES

- Rapid response
- Precision control
- Custom calibration
- Minimum overshoot
- Custom shaft lengths

APPLICATIONS

- Heaters
- Medical
- Hot plates
- Industrial melters
- Soldering equipment

The S200 Series thermostats have a base plate with a high coefficient of expansion. A spring of low-expansion alloy is welded at each end of the base plate. When the base plate is heated it expands and the alloy spring moves in a downward direction allowing the large silver contacts to open. Often referred to as "expanding-action thermostats," they are mounted directly on a heated surface and are ideally suited to a number of commercial applications. Selco carries a line of durable, easy-grip control knobs for use with adjustable models. Model S200-F-1 is available with fixed set points.

SPECIFICATIONS

Electrical ratings 120/240VAC, 1600 watts maximum

100,000 Cycles

Temperature range 75°F to 600°F (23°C to 315°C)

Sensitivity Approximate 2°F

Case width 11/16"
Overall length 2-7/8"

Approvals UL Recognized File No. E79570(M)

CSA File. LR-50152-2

Models available from stock - subject to availability

795 (20.19)

Model Number	Temperature Range Minimum - Maximum	Overall Height	** Adjustment
S200-A	Room Temperature - 525°F ± 20°F	1.50"	2°F for every 1° angular rotation
S200-A-1008	Room Temperature - 550°F ± 25°F	2.00"	2°F for every 1° angular rotation
S200-A-1325	Room Temperature - 425°F ± 20°F	1.75"	2°F for every 1° angular rotation
S200-A-4051	Room Temperature - 205°F ± 10°F	1.43"	2°F for every 1° angular rotation
S200-F-1	Room Temperature - 575°F ± 25°F	.795"	2°F for every 1° angular rotation

^{*} Temperature calibration service is available - consult Selco for details

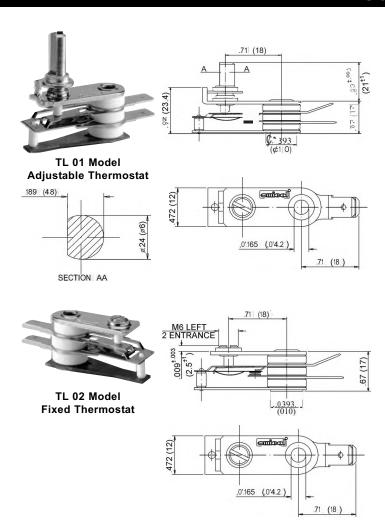
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^{**} Turn clockwise to increase temperature setting

Adjustable Thermostats

TL Series



FEATURES

Low cost

Approvals

- Creep action
- Custom design

APPLICATIONS

- Grills
- Irons
- Fryers

These bimetal thermostats are available in adjustable or fixed settings. The position of the adjustment shaft determines the desired temperature. Contacts are "snap-action" which extends the electrical life or "creep-action" which carry no built in differential. They are primarily used in irons, grills, small electric ovens, as well as commercial and industrial heating devices.

SPECIFICATIONS

Electrical ratings 250VAC, 10 Amps, Resistive, 60Hz

100,000 Cycles

Temperature range 212°F to 410°F (100°C to 210°C)

410°F to 518°F (210°C to 270°C)

Tolerance 5% or 10°F (whatever is greater)

Dielectric strength 1500VAC/1 minute

> UL Recognized File No. E145478(S), XAPX2 C-UL Recognized File No. E145478, XAPX8

VDE

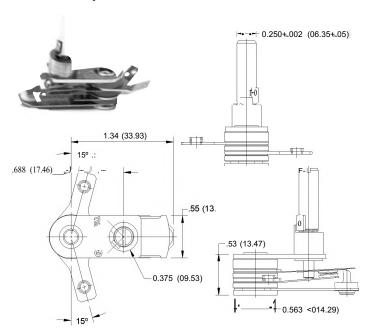
RoHS Compliant

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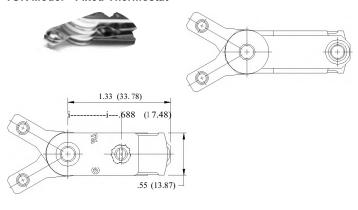


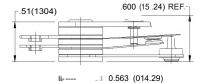
Adjustable Thermostats TOR Series

TOR Model - Adjustable Thermostat



TOR Model - Fixed Thermostat





FEATURES

- Low cost
- Creep action
- · Custom design

APPLICATIONS

- Grills
- Irons
- Fryers

These bimetal thermostats are available in adjustable or fixed settings. The position of the adjustment shaft determines the desired temperature. Contacts are "snap-action" which extends the electrical life or "creep-action" which carry no built in differential. They are primarily used in irons, grills, small electric ovens, as well as commercial and industrial heating devices.

SPECIFICATIONS

TOR Models
Electrical ratings 120VAC, 15 Amps, Resistive, 2.6FLA, 15.6LRA 240VAC, 10 Amps, Resistive, 1.3FLA, 7.8LRA

100,000 Cycles

Temperature range 0°F to 550°F (-17°C to 287°C)

450°F maximum for snap action contacts 550°F maximum for creep action contacts Tolerance ±5% of the calibration temperature

or 10°F whatever is greater

Dielectric strength 1800VAC/1 second

Approvals

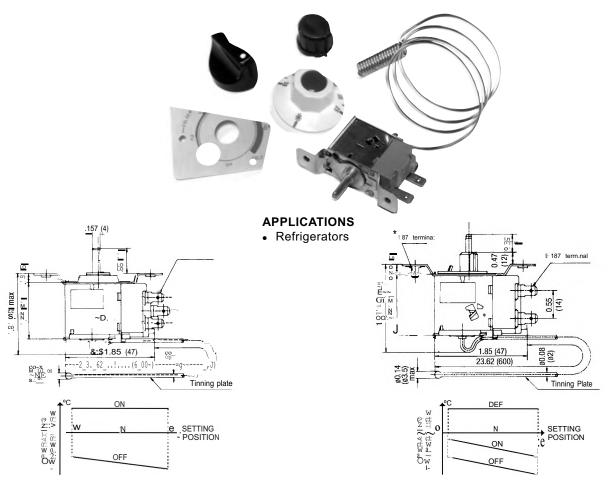
UL Recognized File No. E170601, XAPX2
C-UL Recognized File No. E170601, XAPX8

RoHS Compliant

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WD and WS Series



WD Series - Constant Cut-in Thermostat

The WD Series provides Forced ON or Forced OFF and automatic cycle defrosting in refrigeration systems. Cut-in temperature varies at each cam position, but defrosting temperature remains the same. It is used as a component of controlling in 2-door and 2-temperature refrigerators and freezers. Mainly built to custom specifications, it comes complete with a variety of mounting hardware, including brackets, terminals, dial plates and knobs.

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3PI	CIFICATIONS
Temperature range	ON: +37°F to 43°F (3°C to 6°C) OFF: -22°F to 24°F (-30°C to -4°C)
Maximum temperature range	66°F (19°C)
Differential	14°F to 64°F (8°C to 36°C)
Contact resistance	<50m Ω
Insulation resistance	>100m Ω
Dielectric strength	AC 50/60Hz, 1500V/1 minute
UL/CSA electrical ratings	125VAC, 8 Amps, Resistive 250VAC, 5 Amps, Resistive
Inductive load ratings	125VAC, 6FLA, 36LRA 250VAC, 4FLA, 24LRA
VDE electrical ratings	250VAC, 5 Amps
Approvals	UL Recognized File No. E195847, SDFY2 C-UL Recognized File No. E195847, SDFY8, VDE, SEMKO

RoHS Compliant

WS Series - Push Button Defrost Thermostat

The WS Series has a combined function of refrigerator cycling control and manual defrosting with a push button shaft in the center of the adjusting shaft. Defrost starts when the push button is pressed, and it terminates automatically as temperature rises to a pre-set point. Then the unit continues its normal running cycle.

SPECIFICATIONS

 3.7 ± 5 mm

RoHS Compliant

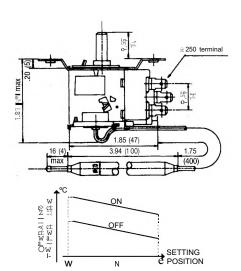
Temperature range	-18°F to 45°F (-28°C to 7°C)
Maximum temperature range	32°F (18°C)
Differential	12°F to 25°F (6°C to 14°C)
Defrost reset temperature	6°F to 12°F (3°C to 7°C)
Contact resistance	<50m Ω
Insulation resistance	>100M Ω
Dielectric strength	AC 50/60Hz, 1500V/1 minute
VDE electrical ratings	250VAC, 5 Amps

Shift of defrosting shaft

Approvals

WK and WK-H Series





Models available from stock - subject to availability

		Temperatu	re Settings	
Part Number	Switch Action	Cold °F	● 42 45 34 37 ● 5.8 5 12.2 20.2 -9.4 -2.2 3 21 41 4 16 33 35 ● 46 13 ● 43 38 ● 43 30 ● ● 39 39 39 39 12 21 30	Warm °F
MU(4) / 445 000	ON	•	42	45
WK1V-115-020	OFF	34	37	•
WKF29.4S-005-120	ON	-5.8	5	12.2
WIN 29.40-003-120	OFF	-20.2	-9.4	-2.2
WKE20 6E 007 020	ON	3	21	41
WKF20.6E-007-020	OFF	4	16	33
MU(E44)/ 400 004T	ON	35	•	46
WKF11V-109-021T	OFF	13	•	•
WKF1V-005-020-1	ON	38	•	43
WIKI 1V-003-020-1	OFF	30	•	•
WKF11A-102-022	ON	39	39	39
(Constant Cut-In)	OFF	12	21	30
WK15.6S-408-060	ON	64.4	•	90
VVK 13.03-408-000	OFF	60.08	•	•

APPLICATIONS

Coolers

· Ice machines

Freezers Refrigerators Air conditioners

The WK and WK-H Series general purpose thermostats provide the ideal temperature control solution for a wide variety of refrigeration and air-conditioner applications. This cold control provides accurate temperature control and high sensitivity for a wide range of refrigerators, freezers, beverage coolers, and display case applications. current capability switch of SPST or SPDT. There is a narrow differential and a forced off function. THe WK and WK-H Series can be used in DC current with inductive loads. Fixed operating temperatures (without shaft) ar also available. With universal adaptability in mind, the WK and WK-H Series is designed to replace many OEM controls, offering the user additional options and convenience during equipment manufacturing or repair. Mainly built to custom specifications, it comes complete with a variety of mounting hardware including brackets, terminals, dial plates, and knobs.

SPECIFICATIONS

-31°F to 104°F (-35°C to 40°C) with bulb Temperature range

-31°F to 90°F (-35°C to 32°C) no bulb

Maximum temperature range 36°F (20°C)

4°F to 9°F (2°C to 5°C) Differential

2.7°F (1.5°C) at calibration point Tolerance

3.6°F (2.0°C) at non-calibration point

Contact resistance <50m Ω Insulation resistance >100m Ω

AC 50/60Hz, 1500V/1 minute Dielectric strength UL/CSA/VDE electrical ratings 125/250VAC, 20 Amps, Resistive

Model WK 100,000 Cycles

125/250VAC, 20FLA, 80LRA Inductive load ratings UL/CSA/VDE electrical ratings 125/250VAC, 20 Amps, Resistive

Model WK-H 100,000 Cycles

Inductive load ratings 125/250VAC, 25FLA, 100LRA

UL Recognized File No. E195847, SDFY2 Approvals

C-UL Recognized File No. E195847, SDFY8

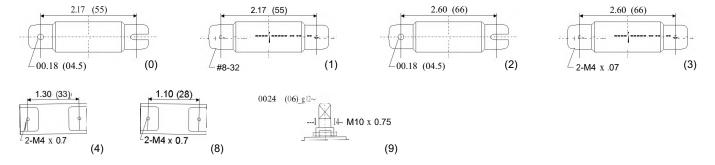
RoHS Compliant

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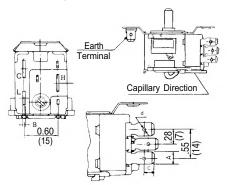


Brackets, Terminals and Adjustment Shafts Options for WD, WS, WK and WK-H Series

Bracket Options



Terminal Options



Terminal	AxB	С	D	Co	de
Number	(mm)	(mm)	(inches)	Terminal	Ground Terminal
#187	4.75 x 0.55	3.2 + 0.25	1.4	1 or 5	1 or 3
#250	4.75 x 0.8	4.2 + 0.3	1.4	3 or 7	5 or 7
#187	6.35 x 0.8	3.2 + 0.25	1.6	2 or 6	2 or 4

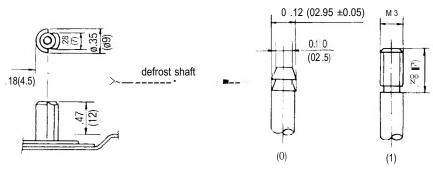
Terminal No. 1, 2, and 3 - are the same direction as capillary

Terminal No. 5, 6, and 7 - are the opposite direction

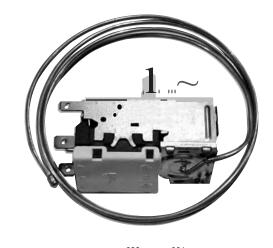
Ground Terminal No. 1, 2, and 5 - are in the front of the bracket Ground Terminal No. 3, 4, and 7 - are in the rear of the bracket

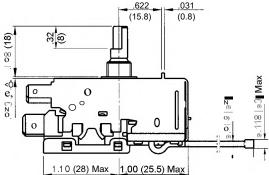
Adjustment Shaft Options

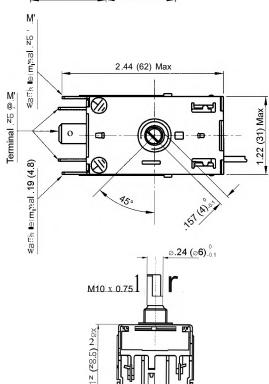
For WS Series



KD Series - Control with S.P.S.T. Switch and Auxiliary Switch







APPLICATIONS

Refrigerators

Temperature control with S.P.S.T. switch and auxiliary switch for OFF position. Automatic defrost function by constant cut-in value.

Terminal 3-4: Closes on temperature rise Terminal 3-6: Opens in OFF position

SPECIFICATIONS

Electrical ratings 250V, 6 Amps, 50Hz 250V, 6FLA, 36LRA Inductive load ratings 120V, 10FLA, 40LRA

-25°F to 42°F (-32°C to 6°C) Temperature range

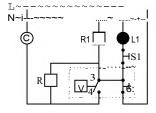
Adjustment range 4 to 18K

Tolerance 2.7°F (1.5°C) at calibration point 3.6°F (2.0°C) at non-calibration point

Contact resistance Insulation resistance $>100M \Omega$

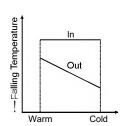
Dielectric strength AC 50/60Hz, 1500V/1 minute Approvals UL and C-UL Recognized

Typical Electrical Wiring Diagram



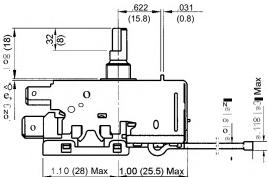
- 3-4 Main switch closes at temperature rise
- 3-6 Auxiliary switch opens in OFF position
- C Compressor
- R Defrost heater
- R1 Frame heating
- R2 Internal heating resistor (82k ohms)
- L Lamp S1 Door switch

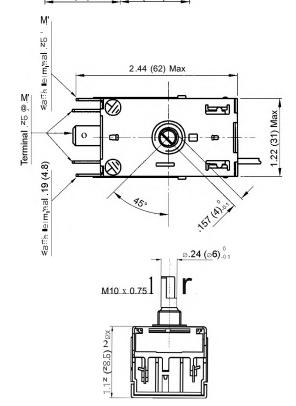
Typical Function Chart



KP Series - Temperature Control with S.P.S.T. Switch







APPLICATIONS

- · Automotive air conditioning
- · Refrigerating/freezing devices

Temperature control with S.P.S.T. switch.

Terminal 3-4: Closes on temperature rise

In general, Type KP is classified into 2 basic

versions:

Version A: KP with standard switching differential Version B: KP with wide switching differential

SPECIFICATIONS

250V, 6 Amps, 50Hz **Electrical ratings** 250V, 6FLA, 36LRA Inductive load ratings 120V, 10FLA, 40LRA

Temperature range -40°F to 104°F (-40°C to 40°C)

Adjustment range Version A: 4 to 30K Version B: 5 to 15K Differential Version A: 3 to 14K Version B: 10 to 25K

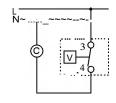
2.7°F (1.5°C) at calibration point Tolerance 3.6°F (2.0°C) at non-calibration point

Contact resistance

Insulation resistance >100M Ω Dielectric strength AC 50/60Hz, 1500V/1 minute **Approvals** UL and C-UL Recognized

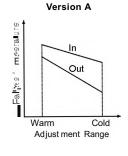
VDE

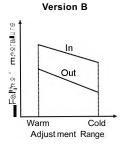
Typical Electrical Wiring Diagram



- 3-4 Main switch closes at temperature rise
 - C Compressor

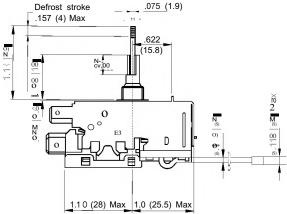
Typical Function Chart

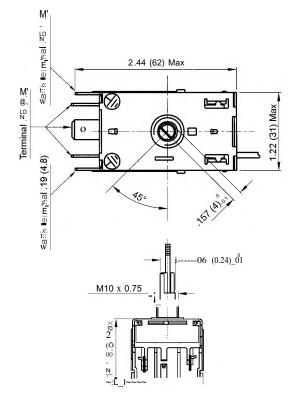




KS Series - Temperature Control with S.P.S.T. Switch and Automatic Defrost







APPLICATIONS

- · Automotive air conditioning
- · Refrigerating/freezing devices

Closing with rising temperature and possibility to manually initiate a defrost function is achieved by pressing the defrost pin (stroke approximate .157 (4mm)) until latching. By doing this, the main switch is opened and locked until the defrost temperature is reached at the sensing point of the capillary which is normally fixed at the evaporator. After the defrost temperature has been reached, the pressure pin returns to its OFF position and the normal ON/OFF operation of the temperature control is reset. Defrost function can be initiated in any position of the dial shaft. If initiated in error, the defrost function can be cancelled by turning the dial shaft to the OFF position.

Terminal 3-4: Closes on temperature rise

SPECIFICATIONS

Electrical ratings	250V, 6 Amps, 50Hz
Inductive load ratings	250V, 6FLA, 36LRA 120V, 10FLA, 40LRA

Temperature range -40°F to 104°F (-40°C to 40°C)

Adjustment range 4 to 14K

Differential 4 to 14K

Defrost temperature Possible between 2°C and 10°C Differential of defrost temperature to

WARM-IN minimum 4K

Tolerance 2.7°F (1.5°C) at calibration point 3.6°F (2.0°C) at non-calibration point

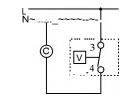
4.5°F (2.5°C) at defrost

Contact resistance <50 m Ω Insulation resistance >100 M Ω

Dielectric strength AC 50/60Hz, 1500V/1 minute
Approvals UL and C-UL Recognized

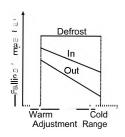
VDE

Typical Electrical Wiring Diagram



3-4 Main switch closes at temperature riseC Compressor

Typical Function Chart



KX Series - Temperature Control with S.P.S.T. Switch and Signal

(15.8)(8.0)08 (18) 8,13 <ĵ√ e, 1.10 (28) Max 1.00 (25.5) Max M' LO N ro e: E : o e: :: row 2.44 (62) Max Terminal .≥5 @ .▼ (31) Max o ਵਰ∷ੇ ਾਗ ਜ਼ਿਜ਼ਾਬਰੀ 19 (4.8) Ø.24 (Ø6)_{-0.1} M10 x 0.75 (z8.5) Ngx

APPLICATIONS

Freezers

Terminal 3-4: Closes on temperature rise

Terminal 3-6: Closes when warning temperature has been

reached

SPECIFICATIONS

Electrical ratings 250V, 50Hz Terminal 3-4: 6 Amps Terminal 3-6: 0.1 Amps -40°F to 104°F (-40°C to 40°C) Temperature range

4 to 30K Adjustment range **Differential** 3 to 14K Signal differential 4 to 7K

Tolerance 2.7°F (1.5°C) at calibration point 3.6°F (2.0°C) at non-calibration point

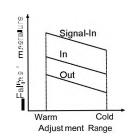
<50m Ω Contact resistance >100M Q Insulation resistance

AC 50/60Hz, 1500V/1 minute Dielectric strength UL and C-UL Recognized **Approvals VDE**

Typical Electrical Wiring Diagram

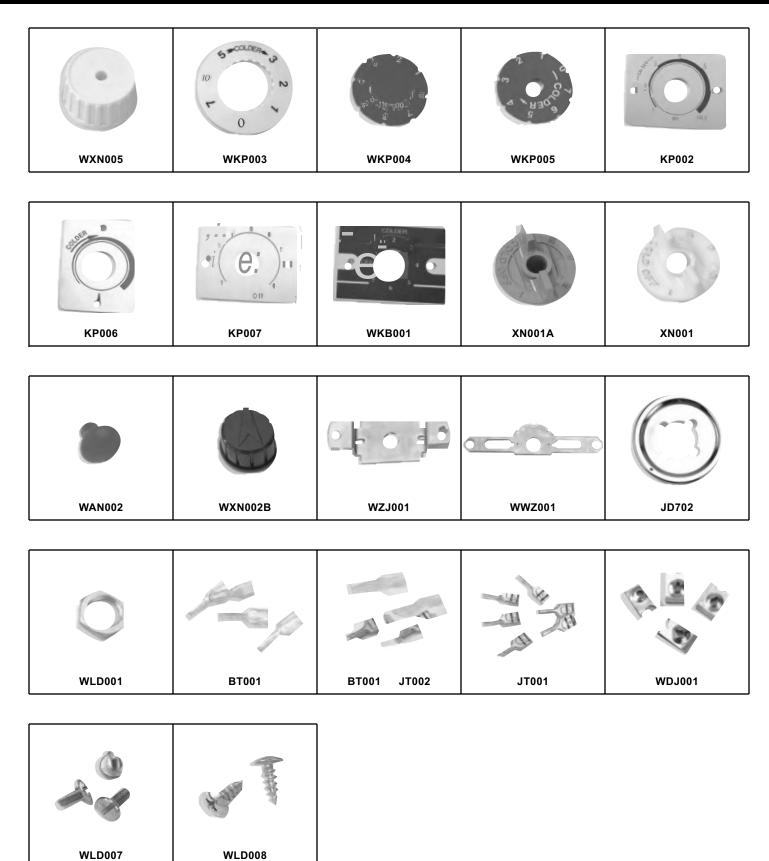
- Main switch closes at temperature rise 3-6 Signal switch closes at temperature rise
- Compressor
- Warning lamp indicates to high temperature

Typical Function Chart

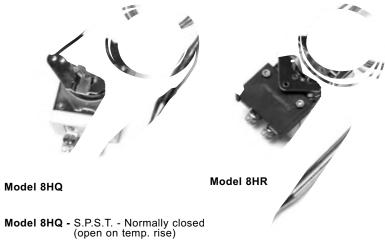


Cold Capillary Controls - Accessories

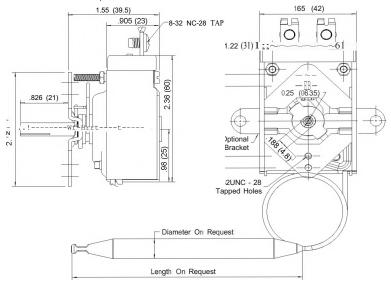
Brackets, Terminals, Dial Plates and Knobs



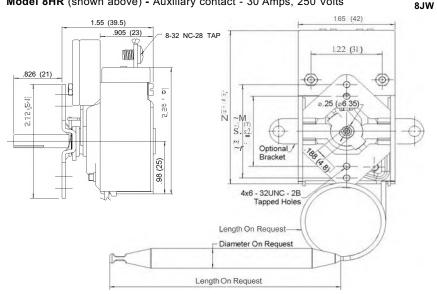
8HQ, 8HR and 8HW Series



Model 8HW - with positive off



Model 8HR (shown above) - Auxiliary contact - 30 Amps, 250 Volts



FEATURES

- 30 Amps capacity
- Drop in replacement
- Custom configurations

APPLICATIONS

- Electric heaters
- Cooking equipment
- Commercial food eqpt.

These 30-Amp Bulb and Capillary Thermostats are designed to be a direct replacement for many different This series (8HQ, 8HR, 8JQ, and 8JW) are electro-mechanical on/off switches that are activated by temperature. They are commercial electric thermostats that are SPST or DPST. Fixed or adjustable temperatures with or without auxiliary switches and/or pilot-duty ratings are available on special order. The 8JW and 8HQ models include a mechanical "positive off" feature in the dial "off" position. A variety of control knobs and bezels are available upon request.

SPECIFICATIONS

Temperature range Electrical ratings

-4°F to 608°F (-20°C to 320°C) 120/240VAC, 30 Amps, Resistive

Copper, stainless steel, nickel plated

100,000 Cycles

Material options Options can include

Compression fittings for mounting, gold contacts, .250 quick connects, customer markings, angular rotations, shaft lengths, back fixing plate bracket (2 holes .5mm dia., 58mm distance), plastic coating to prevent against moisture and dust

Model variations

OH8

8JQ

SPST

Normally closed (open on temperature rise) 8HW S.P.S.T.

Normally closed (open on temperature rise)

Positive off

8HR Auxiliary contact - 30 Amp, 250 Volt

Available on request with 10-32 screw terminals

D.P.S.T. - Double pole

Normally closed (open on temperature rise)

2 x 30 Amp, 250 Volt

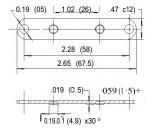
D.P.S.T. - Double pole

Normally closed (open on temperature rise)

2 x 30 Amp, 250 Volt

Positive off switch available on request

Optional bracket for all 30-Amp Models



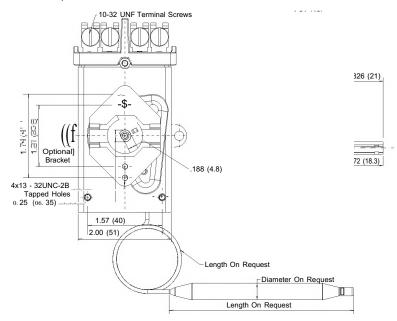
8JQ and 8JW Series

Model 8JQ



Model 8JQ

D.P.S.T. - Normally closed, open on temperature rise 2×30 Amps, 250 Volts

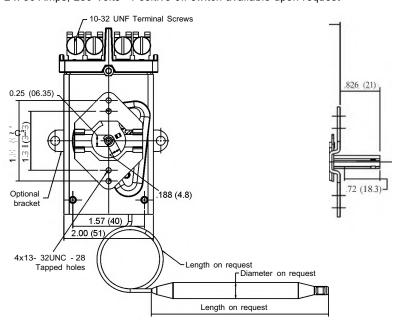


Model 8JW



Model 8JW

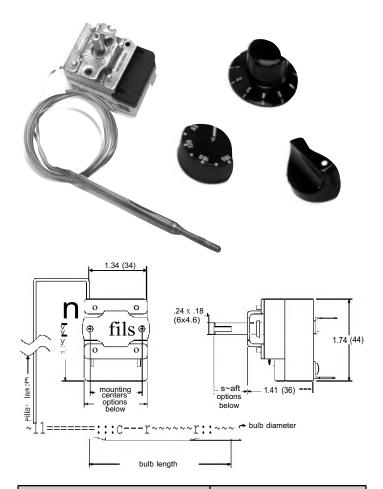
D.P.S.T. - Normally closed (open on temperature rise) with positive off 2 \times 30 Amps, 250 Volts - Positive off switch available upon request



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CAP Series - Automatic Reset



	Length 24 (ø6) x .18 (4.6)	Mounting Bracket Center Holes			
inches	mm	inches	mm		
0.52	13	1.1	28/M4 thread		
0.71	18	1.3	33/6-32 thread		
0.87	22	1.7	44/6-32 thread		
•	•	•	•		

FEATURES

- Stock models
- 20 Amps capacity
- All agency approvals

APPLICATIONS

- Heaters
- Test systems
- Food service equipment

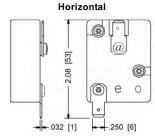
Selco's bulb and capillary thermostats have a fluid filled bulb. When temperature rises, the bulb fluid expands via a capillary tube to an expandable diaphragm within the remote thermostat set point. The thermostats are compact and have ceramic bodies. Accessories include knobs and dials that allow selection of the temperature set point.

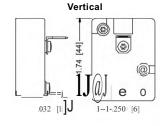
	SPECIFICATIONS
Temperature range	32°F to 752°F (0°C to 400°C)
UL electrical ratings	120/240VAC, 20 Amps, Resistive, 100,000 Cycles 120VAC, 5 Amps, Inductive, 100,000 Cycles 240VAC, 2.9 Amps, Inductive, 100,000 Cycles 1/4 Horsepower, 100,000 Cycles 125VA (pilot duty), 100,000 Cycles
VDE electrical ratings	250VAC, 5 Amps, Inductive 400VAC, 1 Amp, Inductive 10,000 Cycles
Options can include	Compression fittings for mounting, screw terminals, quick connects, gold contacts, SPDT, earth terminals, dial layouts, plastic coating to prevent moisture
Approvals	UL Recognized File No. E168164(S), XAPX2 C-UL Recognized File No. E168164(S), XAPX8 E.C. Declaration of Conformity

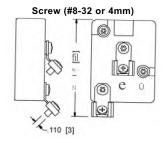
RoHS Compliant VDE, SEMKO, KEMA

Terminal Options

European







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CAP Series - Automatic Reset

Models available from stock - subject to availability

Model Number	Temperature Range (°F)	Set Point	Switch	Material	Capillary Length (inches)	Bulb Length (inches)	Bulb Diameter (inches)
CAP-40-105-R	40-105	Adjustable	SPST	Copper	60	6.0	.24
CAP-56-120-R	56-120	Adjustable	SPST	Stainless Steel	60	7.0	.20
CAP-57-104	57-104	Adjustable	SPST	Copper	43	4.7	.250
CAP-60-150-SS	60-150	Adjustable	SPST	Stainless Steel	16	4.5	.19
CAP-60-450	60-450	Adjustable	SPST	Stainless Steel	36	3.0	.20
CAP-75-140-R	75-140	Adjustable	SPST	Stainless Steel	36 7		.20
CAP-85-195	85-195	Adjustable	SPST	Copper	36	3.6	.24
CAP-85-230-R	85-230	Adjustable	SPST	Copper	36	3.3	.24
CAP-100-320	100-320	Adjustable	SPST	Stainless Steel	36	4.5	.19
CAP-120-392-1	120-392	Adjustable	SPDT	Stainless Steel	36	4.8	.19
CAP-120-428	120-428	Adjustable	SPST	Copper	36	5.1	.20
CAP-120-570	120-570	Adjustable	SPST	Copper	36	3.5	.20
CAP-122-482	122-482	Adjustable	SPST	Copper	36	3.6	.20
CAP-140-475	140-475	Adjustable	SPST	Copper	21	4.9	.20
CAP-140-752	140-752	Adjustable	SPST	Stainless Steel	17	6.2	.118
CAP-150-285	150-285	Adjustable	SPST	Copper	36	4.7	.250
CAP-176-400	176-400	Adjustable	SPST	Copper	47	4.6	.24

Standard Temperature Ranges	Tolerance	Differential
4-40°C (40-104°F)	±2°C (±3.6°F)	1.5°±1C (2.7°±1.8°F)
30-90°C (85-195°F)	±3°C (±5.4°F)	4°±2°C (7.2°±3.6°F)
30-110°C (85-230°F)	±4°C (±7.2°F)	4°±2°C (7.2°±3.6°F)
50-200°C (122-392°F)	±8°C (±14.4°F)	7°±4°C (12.6°±7.2°F)
50-220°C (122-428°F)	±8°C (±14.4°F)	7°±4°C (12.6°±7.2°F)
50-250°C (122-482°F)	±9°C (±16.2°F)	7°±4°C (12.6°±7.2°F)
50-300°C (122-570°F)	±9°C (±16.2°F)	7°±4°C (12.6°±7.2°F)
60-400°C (140-752°F)	±12°C (±21.6°F)	9°±4°C (16.2°±7.2°F)

	Length 24 (6) x .18 (4.6)	Mounting Bracket Center Holes			
inches	mm	inches	mm		
0.52	13	1.1	28/M4 thread		
0.71	18	1.3	33/6-32 thread		
0.87	22	1.7	44/6-32 thread		
-	-	•	•		

Standard Mechanical Specifications

	erature iges	Expos	mbient sure of	Temperature of				eter of er Bulb		Sta		Diameter of inless Steel Bulb			Capillary Length	
		Thermos	stat Case	tne	Duib	Len	Length Diamet		neter	Length		Diameter				
°F	°C	°F	°C	°F	°C	inches	mm	inches	mm	inches	mm	inches	mm	inches	mm	
140-752	60-400	302	150	752	400	•	•	•	•	6.3	160	.12	3	35.4	900	
120-570	50-300	302	150	600	315	9.6	245	0.12	3.1	7.6	195	.12	3	35.4	900	
120-570	50-300	302	150	600	315	6	152	0.15	4	•	•	•	•	35.4	900	
120-570	50-300	302	150	600	315	3.4	87	0.19	5	3	76	.19	5	35.4	900	
120-428	50-220	302	150	448	231	5	127	0.19	5	4	100	.19	5	35.4	900	
120-392	50-200	302	150	410	210	3.7	96	0.24	6	4.3	109	.19	5	35.4	900	
40-105	4-40	176	80	111	44	6	153	0.24	6	7	180	.19	5	35.4	900	
85-195	30-90	212	100	210	99	3.6	92	0.24	6	4.3	109	.19	5	35.4	900	
85-230	30-110	212	100	249	121	3	76	0.24	6	3.5	90	.19	5	35.4	900	
85-248	30-120	212	100	270	132	3.6	92	0.24	6	2.9	75	.19	5	35.4	900	
85-302	30-150	212	100	316	158	4.1	106	0.24	6	•	•	•	•	35.4	900	

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CAP-MR Series - Manual Reset



APPLICATIONS

- Chillers
- Test systems
- · Food service equipment

This non-recycling device trips at a predetermined, calibrated set point shutting down the thermal circuit until reactivated. The circuit will remain inactive until the thermostat is reactivated by manually depressing the reset button. Selco CAP-MR Series meets the requirement of U.L. trip-free device where the circuit remains open while the manual reset is held depressed.

Models available from stock - subject to availability

Model Number	Set Point (°F)	Capillary Length (inches)	Bulb Length (inches)	Bulb Dia. (inches)	Terminals
CAP-MR-140-SS	140 ± 5.5	36	3.6	.24	.250 quick connects
CAP-MR-179	179 ± 5.5	36	3.3	.24	.250 quick connects
CAP-MR-200	200 ± 5.5	36	3.59	.24	.250 quick connects
CAP-MR-245	245 ± 7.2	12	3.3	.24	screw type
CAP-MR-284	284 ± 10.8	36	4.48	.19	.250 quick connects
CAP-MR-320	320 ± 10.8	36	3.0	.24	screw type
CAP-MR-392	392 ± 10.8	36	3.3	.24	.250 quick connects
CAP-MR-450	450 ± 16	36	4.7	.19	.250 quick connects
CAP-MR-500-1	500 ± 16	78	3.0	.19	.250 quick connects
CAP-MR-572-B	572 ± 18	36	3.0	.19	.250 quick connects
CAP-MR-700	700 ± 18	36	6.0	.12	.250 quick connects

SPECIFICATIONS

32°F to 752°F (0°C to 400°C) Temperature range

120/240VAC, 20 Amps, Resistive, 6,000 Cycles **UL** electrical ratings 120VAC, 5 Amps, Inductive, 6,000 Cycles

240VAC, 2.9 Amps, Inductive, 6,000 Cycles 125VA (pilot duty), 6,000 Cycles

VDE electrical ratings 250VAC, 5 Amps, Inductive

400VAC, 1 Amp, Inductive 300 Cycles

Compression fittings for mounting, screw Options can include

terminals, quick connects, gold contacts,

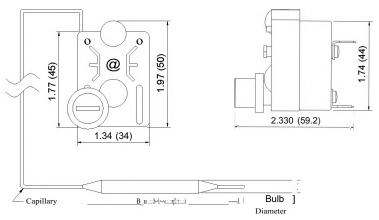
earth terminals, DIP seal

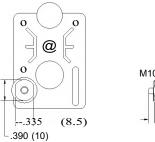
Approvals UL Recognized File No. E168164(S), XAPX2

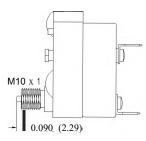
C-UL Recognized File No. E168164(S), XAPX8

E.C. Declaration of Conformity RoHS Compliant

VDE, SEMKO, KEMA European

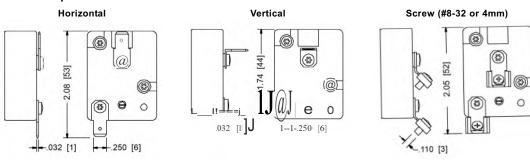






Model of spec pictured above

Terminal Options



It is the customer's sole responsibility to specify and determine the suitability of a particular control or component based on their unique individual applications and requirements

Bulb & Capillary Thermostat Accessories Control Knobs and Dials

Selco's line of Bulb & Capillary thermostats come complete with a variety of brackets, terminals, dial plates, knobs and adjustment shaft options to accommodate a wide range of installation requirements. Custom printing available.



2266A/68-118

2302L



CAP-XXX-KNOB-1 (model shown with bezel)



A1010-3-250-SS2B



CAP-COMET-KNOB



CAP-XXX-KNOB (model shown with bezel)



CAP-1-10-KNOB



DRD157006/109 DRD157006/110

Models available from stock - subject to availability

Part Number	Diameter		Height		Matarial	D. C. Charles
rait Number	inches	mm	inches	mm	Material	Printing
2266A/68-118	2.62	66.5	1.00	25.5	Thermoplastic	Numbers 1 thru 8, OFF
2302L	1.56	39.5	0.96	24.5	Thermoplastic	White Dot
A1010-3-250-SS2B	1.85	47	0.84	21.5	ABS with Aluminum Top	Optional
CAP-1-10-KNOB	1.65	42	0.63	16	Thermoplastic	Number 1 thru 10
CAP-ARROW-KNOB	1.44	36.7	0.38	9.6	Thermoplastic	White Swirl and Number 0
CAP-COMET-KNOB	1.65	42	0.63	16	Thermoplastic	White Swirl and Number 0
CAP-XXX-KNOB	1.65	42	0.63	16	Thermoplastic	Optional
CAP-XXX-KNOB-1	1.44	36.7	0.38	9.6	Thermoplastic	Optional
DRD157006/109	1.14	29	0.69	17.5	Nylon	White Arrow (same side as flat of 'D' shaft)
DRD157006/110	1.14	29	0.69	17.5	Nylon	White Arrow (90° from flat)
CAP-BEZELS	2.36	60	0.16	4.2	Plated	•
CAP-BEZELS-1	1.91	48	0.15	3.7	Plated	•

Shaft size: All knobs fit .24" x .18" (6mm x 4.6mm)

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Value Added Services

Custom Assembly Services Providing Cost and Time Savings As Easy As 1-2-3

During the course of production, a product may have to go to several stations for soldering, crimping, or cutting. With Selco's value-added services, customers can order the product fully assembled, saving time in all areas - purchasing, receiving, labor, and production.

This valuable service offers a variety of custom assemblies and specialty product add-ons for Selco's line of thermal products. Selco's value added service provides custom brackets, specialty connectors and crimp terminals, solder or quick disconnect wire attachment, epoxy over-molding, application tooling, and lead wire and cable assembly. Also offered are special kits containing disc thermostats, thermal cut-offs, insulation sleeving, and molex connectors. Additionally, with Selco's volume purchasing of these small speciality items, customers eliminate paying premium prices.

Call to today to find out how Selco can eliminate the hassle of assembly and purchasing details that end up costing valuable time and money.

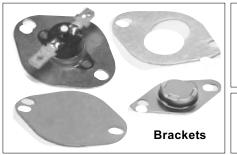
Call, fax or e-mail Selco's friendly and helpful customer support and select from Selco's large inventory of temperature sensors.

Choose from the various value added services provided by Selco (i.e., custom brackets, epoxy over-molding).

Consult with Selco customer support for further available value added services.

The fully assembled product is complete and ready to install in your application.

It's as easy as 1-2-3 and saves time and money.















NTC Thermistors



Selco's line of high-quality, high-performance thermistors includes negative (NTC) temperature coefficients offering a complete selection from interchangeable, point matched, surface mount, and thin film models to life sciences probes as small as 0.019" in diameter. In addition, Selco can address custom applications with virtually unlimited options in materials, configurations, leads, and connections.

The complete selection of NTC thermistors offered by Selco includes:

Interchangeable - IN Series

- Choice of 1.0° to 0.1° tolerance
- -50°C to 150°C temperature range
- . .095" Epoxy head with various wire leads

Point Matched - PM Series

- -50°C to 150°C temperature range
- · Accuracy for a single target temperature
- .095" Epoxy head and choice of wire leads

High Precision - HT Series

- -50°C to 110°C temperature range
- . .157" Epoxy head size is larger than IN and PM models
- Excellent thermal cycle endurance over -50°C to 110°C

High Precision - HP Series

- · More robust leads than HT Series
- Leads are .02" diameter and they can be board mounted
- Similar to High Precision HT Series but smaller .14" epoxy head

Temperature Sensing - TS Series

- 3.42" overall length
- · Insulated copper alloy wire leads
- Epoxy head smaller than IN and PM models

Thin Film - TF Series

- Our thinnest product at .030"
- Four standard lengths available
- Thermistor is covered by Capton Polyimide

Diode Type - DT Series

- DO35 standard package size
- · Glass encapsulated thermistor
- Largest temperature range available from -50°C to 250°C

Surface Mount - CT Series

- Maximum power rating of 4-6 mW at 25°C
- Low dissipation value of 0.9 mW/C in still air
- Standard chip package sizes: 0603, 0805 and 1206

Surface Mount - SM Series

- Dissipation value of 3.5 mW/C in still air
- Maximum power rating of 350-450 mW at 25°C
- Standard chip package sizes: 0402, 0603 and 0805

TR Series - White goods products - harsh environments

- Used in appliances
- Maximum power rating of 250-500 mW at 25°C
- Compact stainless steel case with integral plug

Life Sciences - LS Series

- Small size at .078" head diameter
- Thermal time constant of 1.25 seconds in stirred oil

Life Sciences Mini - LSMN Series

- Smaller size at .035" head diameter
- Thermal time constant of 0.4 seconds in stirred oil

Life Sciences Micro - LSMC Series

- Smallest size at .0185" head diameter
- Thermal time constant of .25 seconds in stirred oil

Custom Thermistors and Probes

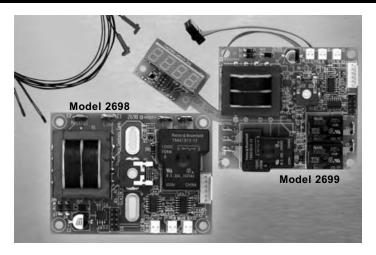
 You choose the thermistor features, probe housing, wire and connectors to fit your application

It is the customer's sole responsibility to specify and determine the suitability of a particular control or component based on their unique individual applications and requirements

(714) 917-1333 • (800) 257-3526 • FAX (714) 917-1355 • E-mail: sales@selcoproducts.com

Cold/Hot Temperature Controllers

Models 2698/2699



FEATURES

- · Class 2 Isolation
- Microprocessor control
- UL approved file #: E230832
- · Optional external switch input
- Conformal coating for operation in moist environments
- Optional expansion connector to support a remote digital display/user panel

Selco/ECC Model 2698/2699 Cold/Hot Controllers offer highend electronic features to provide extremely sophisticated sensing and control of heating, cooling, and humidity. Typical applications include cooling and heating controls for cooking equipment, freezers, refrigerators, and dehumidifiers.

The electronic controllers feature a number of enhanced control options including two or four-digit push-button display panels and bi-color LED indication. Incorporating microprocessor-based technology, the controllers provide excellent performance accuracy, repeatability, and stability.

For maximum versatility, users can select from power input options of 115 VAC or 230 VAC, with Class 2 Isolation Transformer. Further flexibility is provided via the onboard POT or connector that can optionally be used with input signals such as humidity, pressure, or other.

Model 2699 has all the same features as Model 2698. however, includes up to three outputs and onboard bi-color LED indicator. The additional outputs can be programmed to drive a fan, lights, damper, heater, or compressor.

Both models have been designed for ON/OFF cooling control for temperature between -40°F to +100°F (-40°C to +24°C), or heating control for temperatures between 0°F to 285°F (-170°C to 140°C). Our library of tested application software helps us respond quickly to your requests for testing samples. Please contact us with your control needs.

SPECIFICATIONS

MODEL 2698 Inputs

Power Standard Transformer

115 or 230 VAC (factory settable) Class 2 Isolation Transformer - 2.4VA

Two thermistors maximum Signal

Optional external switch input Onboard POT or connector for external POT

Outputs

One 30A SPST or SPDT Relay Power

Signal Optional connector to support remote digital

display or user panel

Controls Onboard potentiometer used for setpoint

adjustment or adjustment on user panel

Operational temperature range: 0°F to 140°F Environment

Conformal coated

Mechanical PCB size: 3.40" L x 2.55" W

Compatible User/ Four digits/one push-button display panel

(ECC part number: 399-0643)

Four digits/five push-buttons, 6 LED user panel

(ECC part number: 399-0644)

Two digits/four push-buttons, 4 LED user panel

(ECC part number: 399-0646)

MODEL 2699 Inputs

Display Panels

Power Standard Transformer

115 or 230 VAC (factory settable)

Class 2 Isolation Transformer - 2.4VA or 6VA

Signal Two thermistors maximum

Optional external switch

Onboard POT or connector for external POT

Outputs

Display Panels

Power Output 1: 30A SPST relay Output 2: 7A or 10A SPST relay

Output 3: 7A or 10A SPST relay

Controls Onboard potentiometer used for setpoint

adjustment or adjustment on user panel

Indicators Optional onboard bi-color LED indicator Environment Operational temperature range: 0°F to 140°F

Conformal coated

Mechanical PCB size: 3.40" L x 3.10" W

Compatible User/ Four digits/one push-button display panel

(ECC part number: 399-0643)

Four digits/five push-buttons, 6 LED user panel

(ECC part number: 399-0644)

Two digits/four push-buttons, 4 LED user panel

(ECC part number: 399-0646)

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It is the customer's sole responsibility to specify and determine the suitability of a particular control or component based on their unique individual applications and requirements

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Electronic Control

Model 2699B

NEW - Available 1Q2008

Model 2699B - Electronic Control

Electronic Control Designed With a Large Microprocessor for Complex Applications

(visit www.selcoproducts for current information on Model 2699B)

FEATURES:

- Multiple Input Capability
 - * Connection for thermocouple with range of 0°C to 999°C
 - * Connectiors for two thermistors with ranges of -40°C to +150°C
 - * Connections for up to two additional digital inputs, for humidity, pressure, etc.
- · Support for standard or custom user-display panels
- · 3 Onborad Relays
 - * One rated 30 Amps
 - * Two rated at 10 Amps
- · Operate with 120VAC or 230VAC
- UL and CSA approvals pending

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Digital Temperature & Time Controller

Model 2901A



FEATURES

- Microprocessor control
- UL approved file #: E230832
- LED display of time and temperature
- Temperature setpoint differential adjustable from 1 to 10
- All operating mode selections and parameter settings can be set from the front panel
- Multiple modes of operation for timer only or temperature and time controller

BENEFITS

- Solid state relay output
- · Easy-to-use and program
- · A variety of input voltages

Model 2901A Digital Temperature and Time Controller features digital sensing and microprocessor-based solid-state technology for reliability and accuracy. Offering a broad temperature control range from 40°F to 999°F (4°C to 530°C), the controller can be used for a wide variety of commercial food equipment and industrial control applications.

Five operating modes provide the user with a great degree of flexibility from the time only control or simultaneous temperature and time control. Depending on the mode selected, users can program for simple on/off temperature/time control, cook/heat and setback temperatures, or hold and cooking/heating temperatures. All operating mode selections and parameters are easily set from the front panel for optimum user convenience.

The 2901A Controllers allows user selection of type "J" (±5°F accuracy) or "K" (±1.8°F accuracy) thermocouple sensors and user-selectable temperature readings in °F or °C. Temperature setpoint differential is adjustable from 1 to 10 degrees. Power options include choice of Selco/ECC's Solid State Transformer that automatically adjusts to line inputs from 75 to 305 VAC; 50/60Hz, or Standard Transformer input of 115/230VAC, 50/60Hz.

The 2901A features a 0.56-inch, four-digit LED display for easy readability of temperature and time indication and measures 6.2" L x 2.1" W. UL approved file #: E230832.

Input	
Power	Standard Transformer 115/230VAC; 50/60Hz Uses 0 Ω jumpers (factory set)
Sensors	Thermocouple - one input maximum Types "J" or "K" - connected by two screw terminal blocks "J" Type temperature range: 200°F to 450°F; ±5°F accuracy "K" Type temperature range: 200°F to 450°F; ±1.8°F accuracy "K" Type temperature range: 40°F to 999°F; TBD accuracy
External	Two 1/4" quick connect terminals for START switch at E1 & E2 (closure to ground)
Outputs	Drive for off-board 12V SSR Audible (onboard) beeper
Controls	Standard controls consist of three pushbutton switches (MODE/SET, DOWN, and UP). An optional fourth pushbutton can be implemented for various applications.
Indicators	4 seven segment LED displays

SPECIFICATIONS

ORDERING MAP

2901A - X 0 0 0

Operational temperature range: 0° to 158°F

Miniature iso-therm connector instead of two

screw terminal blocks for thermocouple

Input Voltage Options

1 = 115VAC; 50/60Hz 2 = 230VAC; 50/60Hz

Environment

Factory Options

3 = 208VAC; 50/60Hz

4 = User Selectable - Standard Transformer

115/230VAC: 50/60Hz

5 = 12-24VAC/VDC; 50/60Hz"

Recommended SSR External Output Device

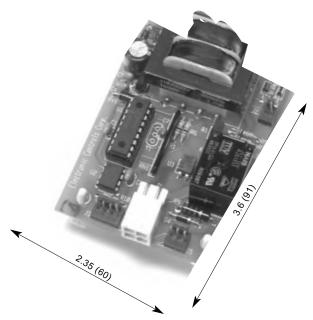
<u>Description</u>	Selco/ECC Part #
10 Amps with .250 quick connects	1310-0110
30 Amps with .250 quick connects	1310-0130
10 Amps with screw terminals	1310-0210
30 Amps with screw terminals	1310-0230

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Programmable Timer

Model 2831



BENEFITS

- · Easy-to-use and program
- · Dual range programmable timer
- Optional indicating panel mount LED
- · A variety of power inputs and outputs
- Maintains memory (time is saved during power loss)

FEATURES

- UL approved file #: E70766
- Dual teachable time settings
- Time setting is done by example
- Ideal for timed food or liquid dispensing Application examples: coffee brewing, cheese and chemical
- Optional flowmeter support for volume instead of time mode
- Two different start modes, (Isolated) AC activation or panel push button

Model 2831 is a dual range timer and is also designed to be a plug-in replacement for Model 2577 Teachme Timer. Both timing ranges are programmed by example. For instance, if you are filling a glass with liquid, just fill the glass once while in program mode, and the time will be remembered (even if power is removed) until it is reprogrammed. An optional panel mount LED indicates that dispensing is in progress. The start button can either be connected to the AC line for 110/220 VAC activation or if low voltage is desired, the button can be connected straight to the board.

SPECIFICATIONS

Input Power Selection either by fixed factory setting or

jumper selectable field setting

Input/Output Power Amp Part #: 770968-1, Type 4 pin PCB mount Connections

connector (Amp Mating Plug #: 172167-1,

Pins #: 77098-1)

Input Signals AC start, cycle select, program, alternate start

Input Signal Connections 0.1" Molex IDC type 4 pin connector Outputs Connects up to 10A load to input power

Control Logic Two separately teachable timers with one start

switch and one timing select switch

Timing Range 0.050 seconds to 54 minutes

Other timing ranges available

0.050 seconds **Timing Resolution**

Timing Repeatability

Overall dimensions: 2.35" W x 3.6" L x 1.5" D Mechanical

Four standoffs are included to mount in 0.156" mounting holes. Mounting footprint is for

1.75" x 3.0" mounting dimensions.

Maximum Operating Environmental Temperature

+30°F to 158°F; 0 to 90%RH, non-condensing

Options Conformal coating

ORDERING MAP

2831 - X X Х Input Voltage Options 1 = 115VAC; 50/60Hz 2 = 230VAC; 50/60Hz 3 = 208VAC; 50/60Hz 4 = User Selectable - 115/230VAC; 50/60Hz 5 = 24VAC/VDC**Output Connection** 0 = SSR output 1 = Relay output committed to input voltage connection

Output Type 1 = 10 Amps Electromechanical (SPDT)*

4 = 1 Amp onboard SSR**

Control Type

- 1 = Standard time
- 2 = Pulse type flowmeter
- * Maximum DC switching voltage 100VDC at 5 Amps
- ** 6 Amps maximum or 1 Amp average current

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Glossary and Terms and Conditions

Air mount: Designed to sense the air temperature

Ambient temperature: The surrounding temperature or environmental temperature

Automatic reset: A type of thermostat that will reset itself at a specific temperature (set point - differential = reset temperature)

Bimetal: Two different metals that bond together to form the disc that actuates the thermostat when reaching a specified temperature

Close on-rise: Normally open contacts; when the temperature rises to the specified temperature the contacts close

Contact resistance: The resistance measured in ohms from across the circuit

Dielectric strength: The voltage that an insulating material can withstand before breakdown occurs

Differential: The difference between opening and closing temperatures - also known as the hysteresis

Electrical contact rating: The maximum volts and amps that the device has been tested to withstand

Exposure temperature: Thermal environment a device will see during application operation

Epoxy seal: A seal to protect against dust and moisture

Insulation resistance: Measures the resistance of the insulating member of the device to a direct voltage

FLA (Full load amps): The amount of current a motor will pull in a locked condition

Life cycles: The endurance rating of a device expressed in number of operations with stated electrical load applied

LRA (Locked rotor amps): The amount of current a motor will pull in a locked condition

Manual reset: The thermostat will remain open until it resets manually - also known as a high limit

Open on-rise: Normally closed contacts; when the temperature rises to the specified temperature the contacts open

PBT: Polybutylene Terphtalate

Phenolic: An insulating thermo-set plastic used for the body of specific thermostats

Set point: Operating temperature; temperature at which the disc changes its curvature (snaps) to open or close electrical contacts

SPST (Single pole, single throw): One set of terminals to activate or deactivate a circuit

SPDT (Single pole, double throw): An electrical switch capable of controlling two different circuits

Snap-action: Fast sudden change in temperature that will cause the bimetal to snap

Surface mount: Designed to sense temperature of the surface as opposed to the air temperature

Tolerance: An additional range above or below the nominal set point

Warranty

One year on most products. Seller extends the same warranties to buyer as the manufacturer extends to seller. All other warranties, whether expressed or implied, are hereby disclaimed except as set forth herein. It is the buyer's sole responsibility to specify and determine the suitability of a particular control or component based on their unique individual applications and requirements.

Damages and Shortages

Inspect immediately for damages and shortages upon receipt of merchandise. All claims for shortage, damage or shipment error must be made within 14 days of receipt.

Payment Terms

Selco accepts Visa, Mastercard, American Express, C.O.D., or Net 30 on approved credit.

No returns will be accepted without seller's prior authorization. Please contact a Selco sales representative for documentation authorizing each return and include a copy with the returned product. Returns should include P.O. number, invoice number and explanation for return. All returns must be freight prepaid unless authorized by Selco. All authorized returns are subject to a restocking charge. Credit will be issued only after receipt and examination of returned merchandise. Replacement merchandise will be sent out and invoiced as a new order. Any credit due will be issued against the old invoice.

Minimum Orders

Minimum order of \$50.00 for single shipment orders and \$100.00 on blanket (multiple shipments) orders.

Contact Selco for distributors or representation in your area

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Notes

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