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

SELCO PRODUCTS COMPANY
605 South East Street • Anaheim, CA 92805-4842
(800) 257-3526 • (714) 917-1333 • FAX (714) 917-1355
www.selcoproducts.com • E-mail: sales@selcoproducts.com
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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

<table>
<thead>
<tr>
<th>Close/Open On-Rise</th>
<th>Model Number</th>
<th>Open °F</th>
<th>Close °F</th>
<th>Mounting</th>
<th>Terminals</th>
<th>Orientation from Mounting Holes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Close CA-50</td>
<td>32 ± 10</td>
<td>50 ± 7</td>
<td>surface</td>
<td>solder tabs</td>
<td>45º</td>
<td></td>
</tr>
<tr>
<td>Close CA-60</td>
<td>40 ± 9</td>
<td>60 ± 7</td>
<td>surface</td>
<td>solder tabs</td>
<td>45º</td>
<td></td>
</tr>
<tr>
<td>Close CA-60-QCV</td>
<td>40 ± 10</td>
<td>60 ± 7</td>
<td>surface</td>
<td>.250 quick connects, vertical</td>
<td>90º</td>
<td></td>
</tr>
<tr>
<td>Close CA-85</td>
<td>67 ± 9</td>
<td>85 ± 7</td>
<td>surface</td>
<td>solder tabs</td>
<td>45º</td>
<td></td>
</tr>
<tr>
<td>Close CA-85-PCB</td>
<td>55 ± 10</td>
<td>85 ± 7</td>
<td>air</td>
<td>printed circuit board</td>
<td>●</td>
<td></td>
</tr>
<tr>
<td>Close CA-85-QC</td>
<td>67 ± 10</td>
<td>85 ± 7</td>
<td>surface</td>
<td>.187 quick connects, horizontal</td>
<td>45º</td>
<td></td>
</tr>
<tr>
<td>Close CA-100</td>
<td>70 ± 10</td>
<td>100 ± 7</td>
<td>surface</td>
<td>solder tabs</td>
<td>45º</td>
<td></td>
</tr>
<tr>
<td>Close CA-104-ST-18</td>
<td>86 ± 10</td>
<td>104 ± 8</td>
<td>6-32 stud</td>
<td>.250 quick connects, vertical</td>
<td>●</td>
<td></td>
</tr>
<tr>
<td>Close CA-107-QCV</td>
<td>90 ± 10</td>
<td>107 ± 7</td>
<td>surface</td>
<td>.187 quick connects, vertical</td>
<td>90º</td>
<td></td>
</tr>
<tr>
<td>Close CA-110</td>
<td>80 ± 10</td>
<td>110 ± 7</td>
<td>surface</td>
<td>solder tabs</td>
<td>45º</td>
<td></td>
</tr>
<tr>
<td>Close CA-110-PCB</td>
<td>80 ± 10</td>
<td>110 ± 7</td>
<td>air</td>
<td>printed circuit board</td>
<td>●</td>
<td></td>
</tr>
<tr>
<td>Close CA-110-QC45</td>
<td>80 ± 10</td>
<td>110 ± 7</td>
<td>surface</td>
<td>.187 quick connects, horizontal</td>
<td>45º</td>
<td></td>
</tr>
<tr>
<td>Close CA-115-QC</td>
<td>100 ± 10</td>
<td>115 ± 7</td>
<td>rotating bracket</td>
<td>.250 quick connects, horizontal</td>
<td>●</td>
<td></td>
</tr>
<tr>
<td>Close CA-120</td>
<td>90 ± 10</td>
<td>120 ± 7</td>
<td>surface</td>
<td>solder tabs</td>
<td>45º</td>
<td></td>
</tr>
<tr>
<td>Close CA-120-QC</td>
<td>90 ± 10</td>
<td>120 ± 7</td>
<td>surface</td>
<td>.250 quick connects, horizontal</td>
<td>90º</td>
<td></td>
</tr>
<tr>
<td>Close CA-120-QCH</td>
<td>90 ± 10</td>
<td>120 ± 7</td>
<td>surface</td>
<td>.187 quick connects, horizontal</td>
<td>45º</td>
<td></td>
</tr>
<tr>
<td>Close CA-120-QCV</td>
<td>90 ± 7</td>
<td>120 ± 10</td>
<td>surface</td>
<td>.250 quick connects, vertical</td>
<td>90º</td>
<td></td>
</tr>
<tr>
<td>Close CA-130-GC</td>
<td>110 ± 10</td>
<td>130 ± 7</td>
<td>surface</td>
<td>.250 quick connects, vertical</td>
<td>45º</td>
<td></td>
</tr>
<tr>
<td>Close CA-130-QCH</td>
<td>100 ± 10</td>
<td>130 ± 7</td>
<td>surface</td>
<td>.250 quick connects, horizontal</td>
<td>90º</td>
<td></td>
</tr>
<tr>
<td>Close CA-130-ST</td>
<td>112 ± 10</td>
<td>130 ± 7</td>
<td>8-32 stud</td>
<td>.250 quick connects, vertical</td>
<td>●</td>
<td></td>
</tr>
<tr>
<td>Close CA-130-WOB</td>
<td>100 ± 10</td>
<td>130 ± 7</td>
<td>no bracket</td>
<td>solder tabs</td>
<td>45º</td>
<td></td>
</tr>
<tr>
<td>Close CA-140</td>
<td>110 ± 10</td>
<td>140 ± 7</td>
<td>surface</td>
<td>solder tabs</td>
<td>45º</td>
<td></td>
</tr>
<tr>
<td>Close CA-140-QC</td>
<td>110 ± 10</td>
<td>140 ± 7</td>
<td>surface</td>
<td>.250 quick connects, vertical</td>
<td>90º</td>
<td></td>
</tr>
<tr>
<td>Close CA-140-OC18</td>
<td>122 ± 10</td>
<td>140 ± 7</td>
<td>rotating</td>
<td>.250 quick connects, vertical</td>
<td>●</td>
<td></td>
</tr>
<tr>
<td>Close CA-150</td>
<td>120 ± 10</td>
<td>150 ± 7</td>
<td>surface</td>
<td>solder tabs</td>
<td>45º</td>
<td></td>
</tr>
<tr>
<td>Close CA-160</td>
<td>130 ± 10</td>
<td>160 ± 7</td>
<td>surface</td>
<td>solder tabs</td>
<td>45º</td>
<td></td>
</tr>
<tr>
<td>Close CA-160-QC</td>
<td>130 ± 10</td>
<td>160 ± 7</td>
<td>surface</td>
<td>.250 quick connects, horizontal</td>
<td>90º</td>
<td></td>
</tr>
<tr>
<td>Close CA-160-QC15</td>
<td>145 ± 7</td>
<td>160 ± 10</td>
<td>surface</td>
<td>.250 quick connects, horizontal</td>
<td>90º</td>
<td></td>
</tr>
<tr>
<td>Close CA-170</td>
<td>140 ± 10</td>
<td>170 ± 7</td>
<td>surface</td>
<td>solder tabs</td>
<td>45º</td>
<td></td>
</tr>
</tbody>
</table>

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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## 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)

<table>
<thead>
<tr>
<th>Close/Open On-Rise</th>
<th>Model Number</th>
<th>Open °F</th>
<th>Close °F</th>
<th>Mounting</th>
<th>Terminals</th>
<th>Orientation from Mounting Holes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Close</td>
<td>CA-170-QC</td>
<td>140 ± 10</td>
<td>170 ± 7</td>
<td>surface</td>
<td>.250 quick connects, vertical</td>
<td>90°</td>
</tr>
<tr>
<td>Close</td>
<td>CA-170-WOB</td>
<td>140 ± 10</td>
<td>170 ± 7</td>
<td>no bracket</td>
<td>solder tabs</td>
<td>●</td>
</tr>
<tr>
<td>Close</td>
<td>CA-175-QC</td>
<td>145 ± 10</td>
<td>175 ± 7</td>
<td>surface</td>
<td>.250 quick connects, horizontal</td>
<td>90°</td>
</tr>
<tr>
<td>Close</td>
<td>CA-180</td>
<td>150 ± 10</td>
<td>180 ± 7</td>
<td>surface</td>
<td>solder tabs</td>
<td>45°</td>
</tr>
<tr>
<td>Close</td>
<td>CA-180-QCV</td>
<td>150 ± 10</td>
<td>180 ± 7</td>
<td>rotating</td>
<td>.250 quick connects, vertical</td>
<td>●</td>
</tr>
<tr>
<td>Close</td>
<td>CA-185-ST</td>
<td>145 ± 10</td>
<td>185 ± 7</td>
<td>6-32 stud</td>
<td>.250 quick connects</td>
<td>●</td>
</tr>
<tr>
<td>Close</td>
<td>CA-190</td>
<td>160 ± 10</td>
<td>190 ± 7</td>
<td>surface</td>
<td>solder tabs</td>
<td>45°</td>
</tr>
<tr>
<td>Close</td>
<td>CA-190-QC</td>
<td>172 ± 10</td>
<td>190 ± 7</td>
<td>surface</td>
<td>.250 quick connects, vertical</td>
<td>90°</td>
</tr>
<tr>
<td>Close</td>
<td>CA-200</td>
<td>170 ± 10</td>
<td>200 ± 7</td>
<td>surface</td>
<td>solder tabs</td>
<td>45°</td>
</tr>
<tr>
<td>Close</td>
<td>CA-205</td>
<td>175 ± 10</td>
<td>205 ± 7</td>
<td>surface</td>
<td>solder tabs</td>
<td>45°</td>
</tr>
<tr>
<td>Close</td>
<td>CA-205-ST</td>
<td>175 ± 10</td>
<td>205 ± 7</td>
<td>6-32 stud</td>
<td>.250 quick connects @ 30°</td>
<td>●</td>
</tr>
<tr>
<td>Close</td>
<td>CA-210-QC</td>
<td>180 ± 10</td>
<td>210 ± 7</td>
<td>surface</td>
<td>.187 quick connects, vertical</td>
<td>90°</td>
</tr>
<tr>
<td>Close</td>
<td>CA-225</td>
<td>190 ± 10</td>
<td>225 ± 7</td>
<td>surface</td>
<td>solder tabs</td>
<td>45°</td>
</tr>
<tr>
<td>Close</td>
<td>CA-230-QC</td>
<td>203 ± 7</td>
<td>230 ± 10</td>
<td>rotating bracket</td>
<td>.187 quick connects, horizontal</td>
<td>●</td>
</tr>
<tr>
<td>Close</td>
<td>CA-230-STG</td>
<td>185 ± 10</td>
<td>230 ± 7</td>
<td>6-32 stud</td>
<td>.187 quick connects, vertical</td>
<td>●</td>
</tr>
<tr>
<td>Close</td>
<td>CA-240</td>
<td>210 ± 10</td>
<td>240 ± 7</td>
<td>surface</td>
<td>solder tabs</td>
<td>45°</td>
</tr>
<tr>
<td>Close</td>
<td>CA-270</td>
<td>240 ± 10</td>
<td>270 ± 7</td>
<td>surface</td>
<td>solder tabs</td>
<td>45°</td>
</tr>
<tr>
<td>Close</td>
<td>CA-270-QCV</td>
<td>240 ± 7</td>
<td>270 ± 10</td>
<td>surface</td>
<td>.187 quick connects, vertical</td>
<td>45°</td>
</tr>
<tr>
<td>Close</td>
<td>CA-300</td>
<td>270 ± 10</td>
<td>300 ± 7</td>
<td>surface</td>
<td>solder tabs</td>
<td>45°</td>
</tr>
<tr>
<td>Open</td>
<td>OA-50</td>
<td>50 ± 5</td>
<td>50 ± 9</td>
<td>surface</td>
<td>solder tabs</td>
<td>45°</td>
</tr>
<tr>
<td>Open</td>
<td>OA-60</td>
<td>60 ± 5</td>
<td>40 ± 7</td>
<td>surface</td>
<td>solder tabs</td>
<td>45°</td>
</tr>
<tr>
<td>Open</td>
<td>OA-80-PWB</td>
<td>80 ± 5</td>
<td>40 ± 9</td>
<td>rotating</td>
<td>printed circuit board</td>
<td>●</td>
</tr>
<tr>
<td>Open</td>
<td>OA-60-QCR</td>
<td>60 ± 5</td>
<td>40 ± 10</td>
<td>surface</td>
<td>.250 quick connects, vertical</td>
<td>●</td>
</tr>
<tr>
<td>Open</td>
<td>OA-60-QCV</td>
<td>60 ± 5</td>
<td>40 ± 10</td>
<td>surface</td>
<td>.250 quick connects, vertical</td>
<td>90°</td>
</tr>
<tr>
<td>Open</td>
<td>OA-60-WOB</td>
<td>60 ± 5</td>
<td>40 ± 9</td>
<td>no bracket</td>
<td>solder tabs</td>
<td>●</td>
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<tr>
<td>Open</td>
<td>OA-70</td>
<td>70 ± 5</td>
<td>50 ± 10</td>
<td>surface</td>
<td>solder tabs</td>
<td>45°</td>
</tr>
<tr>
<td>Open</td>
<td>OA-80</td>
<td>80 ± 5</td>
<td>50 ± 9</td>
<td>surface</td>
<td>solder tabs</td>
<td>45°</td>
</tr>
<tr>
<td>Open</td>
<td>OA-80-PWB</td>
<td>80 ± 5</td>
<td>50 ± 10</td>
<td>air</td>
<td>printed circuit board</td>
<td>●</td>
</tr>
<tr>
<td>Open</td>
<td>OA-80-QCV</td>
<td>80 ± 5</td>
<td>50 ± 10</td>
<td>surface</td>
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<td>90°</td>
</tr>
<tr>
<td>Open</td>
<td>OA-85</td>
<td>85 ± 5</td>
<td>67 ± 9</td>
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<td>45°</td>
</tr>
<tr>
<td>Open</td>
<td>OA-95-QC</td>
<td>95 ± 5</td>
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<td>surface</td>
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<td>90°</td>
</tr>
<tr>
<td>Open</td>
<td>OA-100</td>
<td>100 ± 5</td>
<td>70 ± 10</td>
<td>surface</td>
<td>solder tabs</td>
<td>45°</td>
</tr>
<tr>
<td>Open</td>
<td>OA-100-QC</td>
<td>100 ± 5</td>
<td>85 ± 10</td>
<td>surface</td>
<td>.250 quick connects, horizontal</td>
<td>90°</td>
</tr>
<tr>
<td>Open</td>
<td>OA-110</td>
<td>110 ± 5</td>
<td>80 ± 10</td>
<td>surface</td>
<td>solder tabs</td>
<td>45°</td>
</tr>
<tr>
<td>Open</td>
<td>OA-110-QC</td>
<td>110 ± 5</td>
<td>80 ± 10</td>
<td>rotating bracket</td>
<td>.250 quick connects, horizontal</td>
<td>●</td>
</tr>
<tr>
<td>Open</td>
<td>OA-120</td>
<td>120 ± 5</td>
<td>90 ± 10</td>
<td>surface</td>
<td>solder tabs</td>
<td>45°</td>
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<td>90°</td>
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<td>45°</td>
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<tr>
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<td>45°</td>
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<td>OA-130-ST</td>
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<td>100 ± 10</td>
<td>10-32 stud</td>
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<td>45°</td>
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<td>OA-140-QCV</td>
<td>140 ± 5</td>
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<tr>
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<td>surface</td>
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<td>●</td>
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<td>130 ± 10</td>
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<td>45°</td>
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<td>45°</td>
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<td>OA-175</td>
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<td>45°</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Close/Open On-Rise</th>
<th>Model Number</th>
<th>Open °F</th>
<th>Close °F</th>
<th>Mounting</th>
<th>Terminals</th>
<th>Orientation from Mounting Holes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Open</td>
<td>OA-180-QC</td>
<td>180 ± 5</td>
<td>150 ± 10</td>
<td>surface</td>
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<tr>
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<td>OA-180-QCV</td>
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<td>150 ± 10</td>
<td>surface</td>
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<td>OA-180-QCVR</td>
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<td>150 ± 10</td>
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<tr>
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<td>OA-185-QC18</td>
<td>185 ± 10</td>
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<td>.250 quick connects, vertical 45°</td>
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<td>OA-203-QCV</td>
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<td>surface</td>
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<td>OA-270-90</td>
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<td>OA-300-QC</td>
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<td>OA-300-QCVR</td>
<td>300 ± 7</td>
<td>270 ± 10</td>
<td>rotating bracket</td>
<td>.250 quick connects, vertical ●</td>
<td></td>
</tr>
</tbody>
</table>

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

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

Electrical ratings - Type K
30VDC, 1 Amp, Resistive, 6,000 Cycles
(Type K not VDE approved)
120VAC, 125VA (pilot duty), 6,000 Cycles

Temperature range
UL approved models
120ºF to 320ºF (50ºC to 150ºC)
Non-UL approved models
302ºF to 320ºF (150ºC to 160ºC)

Manual reset
30% below operating temperature

Automatic reset
-40ºF

Environmental temperature
32ºF to 350ºF (0ºC to 177ºC)

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

Circuit resistance
50mΩ or less (initial value)

Dielectric strength
1,500VAC/1 minute

Approvals
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

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

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)

<table>
<thead>
<tr>
<th>Open On-Rise</th>
<th>Model Number</th>
<th>Open ºF</th>
<th>Mounting</th>
<th>Terminals</th>
<th>Orientation from Mounting Holes</th>
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<tbody>
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<td>320 ± 10</td>
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<td>45º</td>
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</tbody>
</table>

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

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
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
1/2” Disc Thermostats - Automatic Reset
CR/OR (622A and 622P) Series

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

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. They are preset and tamper proof.

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 Value Added options, see page 51.

SPECIFICATIONS

<table>
<thead>
<tr>
<th>Electrical ratings</th>
<th>125VAC, 15 Amps, Resistive, 100,000 Cycles</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>250VAC, 10 Amps, Resistive, 100,000 Cycles</td>
</tr>
<tr>
<td>Temperature range</td>
<td>50°F to 365°F (10°C to 185°C)</td>
</tr>
<tr>
<td>Differential</td>
<td>18°F to 45°F (10°C to 25°C)</td>
</tr>
<tr>
<td>Environmental temp.</td>
<td>-4°F to 392°F (-20°C to 200°C)</td>
</tr>
<tr>
<td>Coffee maker, normal &amp; dry override/over shoot</td>
<td>455°F (235°C)</td>
</tr>
<tr>
<td>Insulation resistance</td>
<td>100M Ω or more (with a 500VDC megger)</td>
</tr>
<tr>
<td>Circuit resistance</td>
<td>50m Ω or less (initial value)</td>
</tr>
<tr>
<td>Dielectric strength</td>
<td>1,500VAC/1 minute</td>
</tr>
<tr>
<td>Approvals</td>
<td>UL Recognized File No. E145478(S), XAPX2</td>
</tr>
<tr>
<td></td>
<td>CSA File No. LR63201</td>
</tr>
<tr>
<td></td>
<td>VDE File. F-14713, CE</td>
</tr>
<tr>
<td>RoHS Compliant</td>
<td></td>
</tr>
</tbody>
</table>

CR/OR (622A) Series  - Standard Case
622P Series - 4 Post Design (pictured above)

FEATURES APPLICATIONS
- 4-post design
- Approval by UL, CSA, VDE, CE

APPLICATIONS
- Coffee makers
- Microwave ovens
- Sandwich makers

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

www.selcoproducts.com
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

<table>
<thead>
<tr>
<th>Open On-Rise</th>
<th>Model Number</th>
<th>Open ºF</th>
<th>Close ºF</th>
<th>Mounting</th>
<th>Terminals</th>
</tr>
</thead>
<tbody>
<tr>
<td>Open</td>
<td>ORA-257-QCV</td>
<td>257 ± 9</td>
<td>230 ± 9</td>
<td>rotating bracket</td>
<td>.250 quick connects, vertical</td>
</tr>
<tr>
<td>Open</td>
<td>ORA-347-QCV</td>
<td>347 ± 16</td>
<td>284 ± 16</td>
<td>rotating bracket</td>
<td>.250 quick connects, vertical</td>
</tr>
<tr>
<td>Open</td>
<td>ORA-350-QC</td>
<td>350 ± 14</td>
<td>290 ± 20</td>
<td>rotating bracket</td>
<td>.187 quick connects, horizontal</td>
</tr>
<tr>
<td>Open</td>
<td>ORA-375-QC</td>
<td>375 ± 14</td>
<td>315 ± 20</td>
<td>rotating bracket</td>
<td>.250 quick connects, horizontal</td>
</tr>
<tr>
<td>Open</td>
<td>ORA-400-QC</td>
<td>400 ± 14</td>
<td>340 ± 20</td>
<td>rotating bracket</td>
<td>.250 quick connects, horizontal</td>
</tr>
<tr>
<td>Open</td>
<td>ORA-425-QC</td>
<td>425 ± 15</td>
<td>375 ± 20</td>
<td>rotating bracket</td>
<td>.250 quick connects, horizontal</td>
</tr>
<tr>
<td>Open</td>
<td>ORA-450-QC</td>
<td>450 ± 15</td>
<td>370 ± 20</td>
<td>rotating bracket</td>
<td>.250 quick connects, horizontal</td>
</tr>
<tr>
<td>Open</td>
<td>ORA-500-QC</td>
<td>500 ± 20</td>
<td>420 ± 20</td>
<td>rotating bracket</td>
<td>.250 quick connects, horizontal</td>
</tr>
<tr>
<td>Open</td>
<td>ORA-500-QCV50</td>
<td>500 ± 20</td>
<td>450 ± 20</td>
<td>rotating bracket</td>
<td>.250 quick connects, vertical</td>
</tr>
</tbody>
</table>

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).
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

www.selcoproducts.com
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
### Special Order Map
For CA/OA, OM, CR/OR, and CRA/ORA Series

---

#### Build Your Own Part

<table>
<thead>
<tr>
<th>Model</th>
<th>Contacts</th>
<th>Function</th>
<th>Terminal Type</th>
<th>Bracket Type</th>
<th>Terminal Orientation</th>
<th>Set Point</th>
<th>°F/°C</th>
<th>Differential</th>
</tr>
</thead>
<tbody>
<tr>
<td>602S</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>603U-H</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>622A</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>622P</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>625A</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### Contacts
- S Silver contacts
- K Gold contacts

#### Function
- X Open on-rise (normally closed)
- Y 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
- 0°
- 45°
- 90°

#### Example Part Number

<table>
<thead>
<tr>
<th>602</th>
<th>S</th>
<th>X</th>
<th>BV</th>
<th>AS</th>
<th>90</th>
<th>145</th>
<th>°F</th>
<th>30</th>
</tr>
</thead>
<tbody>
<tr>
<td>Model</td>
<td>Contacts</td>
<td>Function</td>
<td>Terminal Type</td>
<td>Bracket Type</td>
<td>Terminal Orientation</td>
<td>Set Point</td>
<td>°F/°C</td>
<td>Differential</td>
</tr>
</tbody>
</table>

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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.

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

www.selcoproducts.com
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)

<table>
<thead>
<tr>
<th>Model Number</th>
<th>Open °F</th>
<th>Close °F</th>
</tr>
</thead>
<tbody>
<tr>
<td>KO-450</td>
<td>450 ± 12</td>
<td>370 ± 12</td>
</tr>
<tr>
<td>KO-550</td>
<td>550 ± 25</td>
<td>470 ± 25</td>
</tr>
</tbody>
</table>

Temperature Settings - Special Order

<table>
<thead>
<tr>
<th>Operating Temp. Range (°F)</th>
<th>Available Differential Range °F</th>
<th>Opening Temp. Tol (±°F)</th>
<th>Closing Temp. Tol (±°F)</th>
</tr>
</thead>
<tbody>
<tr>
<td>-65 to -1</td>
<td>25 30 80</td>
<td>10</td>
<td>8</td>
</tr>
<tr>
<td>0 to 200</td>
<td>9 20 80</td>
<td>5</td>
<td>5</td>
</tr>
<tr>
<td>201 to 300</td>
<td>20 30 80</td>
<td>8</td>
<td>6</td>
</tr>
<tr>
<td>301 to 450</td>
<td>30 40 80</td>
<td>12</td>
<td>12</td>
</tr>
<tr>
<td>451 to 550</td>
<td>60 70 80</td>
<td>25</td>
<td>25</td>
</tr>
</tbody>
</table>

Contact Ratings (Resistive)

<table>
<thead>
<tr>
<th>30VAC/DC</th>
<th>125VAC</th>
<th>250VAC</th>
<th>Life Cycles</th>
</tr>
</thead>
<tbody>
<tr>
<td>Amperes</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5.0</td>
<td>2.5</td>
<td>1.0</td>
<td>100,000</td>
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<tr>
<td>5.5</td>
<td>3.0</td>
<td>1.5</td>
<td>50,000</td>
</tr>
<tr>
<td>6.0</td>
<td>4.0</td>
<td>2.0</td>
<td>25,000</td>
</tr>
<tr>
<td>6.5</td>
<td>5.0</td>
<td>2.5</td>
<td>10,000</td>
</tr>
<tr>
<td>7.0</td>
<td>6.0</td>
<td>3.0</td>
<td>5,000</td>
</tr>
</tbody>
</table>

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

www.selcoproducts.com
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.

Terminal Dimensions

Loose Bracket

4344-7

4344-184

4344-32

4344-144

4344-145

4344-13

4344-14

4344-221

4344-135

4344-63

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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www.selcoproducts.com
FEATURES
- 25 Amp capacity
- UL and CUL approved
- Factory calibrated to your specifications

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)
Limit Controls • SE-L - Open On-Rise (normally closed)

<table>
<thead>
<tr>
<th>Model Number</th>
<th>Temperature Ranges</th>
<th>Temperature Ranges</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Open °F</td>
<td>Close °F</td>
</tr>
<tr>
<td>SE-F060</td>
<td>40 ± 9</td>
<td>60 ± 5</td>
</tr>
<tr>
<td>SE-F090</td>
<td>70 ± 9</td>
<td>90 ± 5</td>
</tr>
<tr>
<td>SE-F100</td>
<td>100 ± 9</td>
<td>120 ± 5</td>
</tr>
<tr>
<td>SE-F110</td>
<td>90 ± 9</td>
<td>110 ± 5</td>
</tr>
<tr>
<td>SE-F120</td>
<td>100 ± 9</td>
<td>120 ± 5</td>
</tr>
<tr>
<td>SE-F130</td>
<td>110 ± 9</td>
<td>130 ± 5</td>
</tr>
<tr>
<td>SE-F140</td>
<td>120 ± 9</td>
<td>140 ± 5</td>
</tr>
<tr>
<td>SE-F219H*</td>
<td>180 ± 9</td>
<td>219 ± 5</td>
</tr>
<tr>
<td>SE-L120</td>
<td>120 ± 7</td>
<td>120 ± 9</td>
</tr>
<tr>
<td>SE-L130</td>
<td>130 ± 7</td>
<td>130 ± 9</td>
</tr>
<tr>
<td>SE-L135</td>
<td>135 ± 7</td>
<td>135 ± 9</td>
</tr>
<tr>
<td>SE-L140</td>
<td>140 ± 7</td>
<td>140 ± 9</td>
</tr>
<tr>
<td>SE-L145</td>
<td>145 ± 7</td>
<td>145 ± 9</td>
</tr>
<tr>
<td>SE-L150</td>
<td>150 ± 7</td>
<td>150 ± 9</td>
</tr>
<tr>
<td>SE-L150-A</td>
<td>150 ± 7</td>
<td>150 ± 9</td>
</tr>
<tr>
<td>SE-L150-D</td>
<td>150 ± 7</td>
<td>150 ± 9</td>
</tr>
<tr>
<td>SE-L160</td>
<td>160 ± 7</td>
<td>160 ± 9</td>
</tr>
<tr>
<td>SE-L170</td>
<td>170 ± 7</td>
<td>170 ± 9</td>
</tr>
<tr>
<td>SE-L175</td>
<td>175 ± 7</td>
<td>175 ± 9</td>
</tr>
<tr>
<td>SE-L180</td>
<td>180 ± 7</td>
<td>180 ± 9</td>
</tr>
<tr>
<td>SE-L180A</td>
<td>180 ± 7</td>
<td>180 ± 9</td>
</tr>
<tr>
<td>SE-L190</td>
<td>190 ± 7</td>
<td>190 ± 9</td>
</tr>
<tr>
<td>SE-L194H*</td>
<td>194 ± 7</td>
<td>194 ± 9</td>
</tr>
<tr>
<td>SE-L200</td>
<td>200 ± 7</td>
<td>200 ± 9</td>
</tr>
<tr>
<td>SE-L210</td>
<td>210 ± 7</td>
<td>210 ± 9</td>
</tr>
<tr>
<td>SE-L230</td>
<td>230 ± 7</td>
<td>230 ± 9</td>
</tr>
<tr>
<td>SE-L240</td>
<td>240 ± 7</td>
<td>240 ± 9</td>
</tr>
<tr>
<td>SE-L250</td>
<td>250 ± 7</td>
<td>250 ± 9</td>
</tr>
<tr>
<td>SE-L255</td>
<td>255 ± 7</td>
<td>255 ± 9</td>
</tr>
<tr>
<td>SE-L300</td>
<td>300 ± 7</td>
<td>300 ± 9</td>
</tr>
<tr>
<td>SE-L325</td>
<td>325 ± 7</td>
<td>325 ± 9</td>
</tr>
<tr>
<td>SE-L350</td>
<td>350 ± 7</td>
<td>350 ± 9</td>
</tr>
</tbody>
</table>

* Horizontal terminals

SPECIFICATIONS

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
3/4” Disc Thermostats - Automatic Reset
SES (T11) Series - Surface Mount

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

SPECIFICATIONS

Electrical ratings
- 120VAC, 240VAC, 25 Amps, Resistive, 60Hz
- 120VAC, 10FLA, 60LRA, 60Hz, Inductive
- 240VAC, 5FLA, 30LRA, 60Hz, Inductive
- 100,000 Cycles

Temperature range
- 33ºF to 302ºF (1ºC to 150ºC) (UL Models)
- 302ºF to 350ºF (150ºC to 177ºC) (Non-UL Models)

Differential
- 14ºF to 100ºF (8ºC to 56ºC) - SPST Models
- 27ºF to 100ºF (15ºC to 56ºC) - SPDT Models

Dielectric strength
- 1,500VAC/1 minute

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

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 activate.

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
Limit Controls • SES-L - Open On-Rise (normally closed)
Fan Controls • SES-F - Close On-Rise (normally open)

<table>
<thead>
<tr>
<th>Model Number</th>
<th>Temperature Ranges</th>
<th>Open ºF</th>
<th>Close ºF</th>
</tr>
</thead>
<tbody>
<tr>
<td>SES-F058</td>
<td></td>
<td>44 ± 9</td>
<td>58 ± 5</td>
</tr>
<tr>
<td>SES-F120H*</td>
<td></td>
<td>100 ± 9</td>
<td>120 ± 5</td>
</tr>
<tr>
<td>SES-F130</td>
<td></td>
<td>115 ± 9</td>
<td>130 ± 5</td>
</tr>
<tr>
<td>SES-F140</td>
<td></td>
<td>140 ± 9</td>
<td>120 ± 5</td>
</tr>
<tr>
<td>SES-F200H*</td>
<td></td>
<td>160 ± 9</td>
<td>200 ± 5</td>
</tr>
</tbody>
</table>

* Horizontal terminals

<table>
<thead>
<tr>
<th>Model Number</th>
<th>Temperature Ranges</th>
<th>Open ºF</th>
<th>Close ºF</th>
</tr>
</thead>
<tbody>
<tr>
<td>SES-L110</td>
<td></td>
<td>110 ± 7</td>
<td>96 ± 9</td>
</tr>
<tr>
<td>SES-L120</td>
<td></td>
<td>120 ± 7</td>
<td>106 ± 9</td>
</tr>
<tr>
<td>SES-L150</td>
<td></td>
<td>150 ± 7</td>
<td>130 ± 9</td>
</tr>
<tr>
<td>SES-L180</td>
<td></td>
<td>180 ± 7</td>
<td>150 ± 9</td>
</tr>
<tr>
<td>SES-L190</td>
<td></td>
<td>190 ± 7</td>
<td>160 ± 9</td>
</tr>
<tr>
<td>SES-L213H*</td>
<td></td>
<td>213 ± 7</td>
<td>155 ± 9</td>
</tr>
<tr>
<td>SES-L250</td>
<td></td>
<td>250 ± 7</td>
<td>220 ± 9</td>
</tr>
<tr>
<td>SES-L275H*</td>
<td></td>
<td>275 ± 7</td>
<td>245 ± 9</td>
</tr>
</tbody>
</table>

* Horizontal terminals

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

www.selcoproducts.com
FEATURES
- 25 Amp capacity
- Operation up to 350°F
- Factory calibrated to your specifications

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.

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

SPECIFICATIONS

Electrical ratings
- 120VAC, 240VAC, 25 Amps, Resistive, 60Hz
- 120VAC, 10FLA, 60LRA, 60Hz, Inductive
- 240VAC, 5FLA, 30LRA, 60Hz, Inductive
- 5,000 Cycles

Temperature range
- 33ºF to 302ºF (1ºC to 150ºC) (UL Models)
- 302ºF to 350ºF (150ºC to 177ºC) (Non-UL Models)

Dielectric strength
- 1,500VAC/1 minute

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

FEATURES APPLICATIONS
- 25 Amp capacity
- H.V.A.C.
- Operation up to 350°F
- Major appliances
- Factory calibrated to your specifications
- 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)

<table>
<thead>
<tr>
<th>Model Number</th>
<th>Temperature Ranges</th>
</tr>
</thead>
<tbody>
<tr>
<td>SES-L200M*</td>
<td>200 ± 11</td>
</tr>
<tr>
<td>SES-L250HM*</td>
<td>250 ± 14</td>
</tr>
<tr>
<td>SES-L265HM*</td>
<td>265 ± 14</td>
</tr>
<tr>
<td>SES-L350M*</td>
<td>350 ± 16</td>
</tr>
</tbody>
</table>

* Mounting Configuration: Surface

LIMIT CONTROLS • SES-L - OPEN ON-RISE (NORMALLY CLOSED)

<table>
<thead>
<tr>
<th>Model Number</th>
<th>Temperature Ranges</th>
</tr>
</thead>
<tbody>
<tr>
<td>SES-L090M*</td>
<td>90 ± 11</td>
</tr>
<tr>
<td>SES-L120M*</td>
<td>120 ± 11</td>
</tr>
<tr>
<td>SES-L130M*</td>
<td>130 ± 11</td>
</tr>
<tr>
<td>SES-L160M*</td>
<td>160 ± 11</td>
</tr>
<tr>
<td>SES-L170HM*</td>
<td>170 ± 11</td>
</tr>
<tr>
<td>SES-L200M*</td>
<td>200 ± 11</td>
</tr>
<tr>
<td>SES-L250M*</td>
<td>250 ± 14</td>
</tr>
<tr>
<td>SES-L350M*</td>
<td>350 ± 16</td>
</tr>
</tbody>
</table>

* Mounting Configuration: Airstream

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
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.
**Model**

| Model | SE Series - Airstream Mount | T10
| SES Series - Surface Mount | T11

**Reset**

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

**Electrical Function**

| 1 | Open on-rise (normally closed) |
| 2 | Close on-rise (normally open) |
| 3 | Single pole - double throw |

**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 | Horizontal |
| 3 | Vertical |

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

| Code 0 | 0º |
| Code 30 | 30º |
| Code 45 | 45º |
| Code 60 | 60º |
| Code 90 | 90º |
| Code 135 | 135º |
| Code 150 | 150º |

**Set Point (specify in ºF)**

**Differential (specify in ºF)**

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
ENCAPSULATED THERMOSTATS
SEO (T) Series

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

APPLICATIONS
- Freezers
- Refrigerators
- Air conditioners

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 and 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.

T16 Model - Without Bracket
Stainless steel cover

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

SPECIFICATIONS

| Temperature range | -4°F to 212°F (-20ºC to 100ºC) |
| Differential (minimum) | 20°F (11ºC), S.P.S.T. |
| | Temp range: -4°F to 32°F (-20ºC to 0ºC) |
| | 14°F (8ºC), S.P.S.T. |
| | Temp range: 32°F to 212°F (0ºC to 100ºC) |
| | 27°F (15ºC) minimum, S.P.D.T. |

Environmental temperature
T16 and T17 Models
-4°F to 212°F (-20ºC to 100ºC)

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
VDE
RoHS Compliant

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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www.selcoproducts.com
T21 Model - With Bracket
Stainless steel cover

T22 Model - Auxiliary Clip Mount
Stainless steel cover - 3/8" and 1/2" clips

T60 Model - Plastic Body

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.
Encapsulated Thermostats
Special Order Map for SEO (T) Series

Build Your Own Part

<table>
<thead>
<tr>
<th>Model</th>
<th>Electrical Function</th>
<th>Set Point (°F)</th>
<th>Differential (°F)</th>
<th>Lead Lengths (inches)</th>
<th>Tube</th>
</tr>
</thead>
<tbody>
<tr>
<td>T16</td>
<td>Without bracket - stainless steel cover (refer to page 23)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>T17</td>
<td>Auxiliary clip mount - stainless steel cover - 3/8” clip (refer to page 23)</td>
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<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>T21</td>
<td>With bracket - stainless steel cover (refer to page 24)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>T22</td>
<td>Auxiliary clip mount - stainless steel cover - 3/8” and 1/2” clips (refer to page 24)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>T60</td>
<td>Plastic body (refer to page 24)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Electrical Function
1  S.P.S.T. - Open on-rise (normally closed)
2  S.P.S.T. - Close on-rise (normally open)
3  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
1  3/8”  (T17, T22 and T60 models only)
2  1/2”  (T22 model only)
3  5/16”  (T60 model only)

Example Part Number

<table>
<thead>
<tr>
<th>T17</th>
<th>1</th>
<th>60</th>
<th>20</th>
<th>12</th>
<th>Model</th>
<th>Electrical Function</th>
<th>Set Point (°F)</th>
<th>Differential (°F)</th>
<th>Lead Lengths (inches)</th>
<th>Tube Size</th>
</tr>
</thead>
</table>

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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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.

SPECIFICATIONS

Variations
OP6 Without lead wires, 2 welding terminals
OP61 Uninsulated solid wires, bare
OP62 Stranded insulated wires, tin-coated - 24AWG

Temperature range
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
50mΩ or less (initial value)

Approvals & contact ratings
UL873 Regulating
OP6, OP61 and OP62 Models 125VAC, 4 Amps, Resistive, 6,000 Cycles
284°F maximum (140°C maximum)
File No. E50124
CSA Op6, OP61 and OP62 Models 125VAC, 4 Amps, Resistive, 6,000 Cycles
284°F maximum (140°C maximum)
File No. E50124
EN60730-2-2 OP6, OP61 and OP62 Models 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
284°F maximum (140°C maximum)
File No. 8921.00-4510-0027
EN60730-2-9 OP61G and OP62G Models 250VAC, 0.5 Amps, Resistive, 10,000 Cycles
284°F maximum (140°C maximum)
File No. 8921.00-4510-0027

Contact system
OP6, OP61, and OP62 Models Open on-rise (normally closed)
Silver contacts
OP6#G Models Open on-rise (normally closed)
PGB (Platinum/Gold/Silver alloy) cross-bar contacts for micro power applications

FEATURES
- PBT enclosure
- Not current sensitive
- Suitable for PCB mounting
- Lighting ballasts

APPLICATIONS
- Solenoids
- Motor protection

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
UP6 Without lead wires
UP61 Uninsulated solid wires - 24AWG
UP62 Stranded insulated wires, 24AWG

Temperature range
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
50mΩ or less (initial value)

Approvals & contact ratings
UL873 Regulating
UP6, UP61 and UP62 Models 125VAC, 4 Amps, Resistive, 6,000 Cycles
284°F maximum (140°C maximum)
File No. E50124
CSA C22.2, No. 24 (c-UL) - Regulating
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 Thermal Cut-Out
UP6, UP61 and UP62 Models 250VAC, 2.5 Amps, Resistive, 10,000 Cycles
284°F maximum (140°C maximum)
File No. 8921.00-4510-0027
EN60730-2-9 UP61G and UP62G Models 250VAC, 0.5 Amps, Resistive, 10,000 Cycles
284°F maximum (140°C maximum)
File No. 8921.00-4510-0027

Contact system
UP6, UP61, and UP62 Models Open on-rise (normally closed)
Silver contacts
UP6#G Models Open on-rise (normally closed)
PGB (Platinum/Gold/Silver alloy) cross-bar contacts for micro power applications

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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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.

SPECIFICATIONS
Variations
UP7 Without lead wires, 2 welding terminals
UP71 Uninsulated solid wires, bare
UP72 Stranded insulated wires, tin-coated - 22AWG

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

Contact resistance
50mΩ or less (initial value)

Approvals & contact ratings
CMJ Registration No. J-22
UL2111 Motor Protector
125VAC, 8 Amps, Resistive, 10,000 Cycles
266°F maximum (130°C maximum)
File No. E502703
UL873 Limiting
125VAC, 6 Amps, Resistive, 100,000 Cycles
284°F maximum (140°C maximum)
File No. E50124

CSA Std. C22.2, No. 77 - Motor Protector
125VAC, 3.75FLA
File No. LR35080

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
UP7 Model
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

UL2111 Motor Protector
125VAC, 1/2HP maximum
302°F maximum (150°C maximum)
File No. E52703
UL873 Limiting
125VAC, 6 Amps, Resistive, 100,000 Cycles
284°F maximum (140°C maximum)
File No. E50124

CSA Std. C22.2, No. 77 - Motor Protector
125VAC, 293FLA
File No. LR35080

EN60730-2-2 Thermal Motor Protector
UP7 Model
250VAC, 311°F maximum (155°C maximum)
File No. 8921.00-4510-0026

EN60730-2-9 Thermal Cut-Out
UP7 Model
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

Contact system
UP7, UP71, and UP72 Models
Open on-rise (normally closed)
Silver contacts

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

APPLICATIONS
- Power supplies
- Motor protection
- Electronic appliances

The PBT enclosed UI2 Series offers both thermal conductivity 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.
Thermal Protectors - Self Hold
UB8P and UB81P Series

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: 165ºF to 257ºF (75ºC to 125ºC)
- **Environmental temperature**
  - Standard: ±9ºF (±5ºC)
- **Differential**
  - 50ºF±25ºF (30ºC±15ºC)
- **Electrical ratings**
  - 125VAC, 16 Amps, Resistive, 6,000 Cycles
  - 257ºF Maximum (125ºC Maximum)
  - File No. E50124
- **Contact resistance**
  - 50m Ω or less (initial value)
- **Approvals & contact ratings**
  - UL-873
  - EN60730-2-9 Temperature Limiter
  - 250VAC, 10 Amps, Resistive, 6,000 Cycles
  - 250VAC, 5 Amps, Inductive, 6,000 Cycles
  - 257ºF Maximum (125ºC Maximum)
  - File No. 8921.00-4521-0039
  - RoHS Compliant

**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

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
The S7AM Thermal Protector is a thermally operated snap-action 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 circuit.

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.

**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
- 230VAC, 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
- UL873 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

**FEATURES APPLICATIONS**
- Miniature size
- HID ballasts
- Gasket steel case
- Transformers
- Individually temperature tested and calibrated
- Lighting ballasts
- Battery packs
- Wide selection of leads and insulating sleeves
- Vacuum cleaners
- Repeatable temperature over life
- Automotive accessory, solenoids, PC boards and other applications

**PART NUMBER SYSTEM**

<table>
<thead>
<tr>
<th>Standard Opening Temperature</th>
<th>X</th>
<th>X</th>
<th>X</th>
<th>X</th>
</tr>
</thead>
<tbody>
<tr>
<td>Opening Temp °C</td>
<td>* Low Resistance Bimetal Disc</td>
<td>** High Resistance Bimetal Disc</td>
<td></td>
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<tr>
<td>65</td>
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<td>160</td>
<td>039</td>
<td>219</td>
<td></td>
<td></td>
</tr>
<tr>
<td>165</td>
<td>040</td>
<td>220</td>
<td></td>
<td></td>
</tr>
<tr>
<td>170</td>
<td>336</td>
<td>221</td>
<td></td>
<td></td>
</tr>
<tr>
<td>175</td>
<td>316</td>
<td>222</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Terminal Configuration**
- A Same end
- B Opposite end

**Temperature Tolerance**
- 5 ±5°C

**Physical Characteristics**
- i.e. Wire leads, insulating sleeves
- 18AWG - largest wire option
- 22AWG - smallest wire option

**Non-Standard Gasket Material (Option)**
- 5 High Seal / White

*(Low Resistance - In applications where temperature rise is less than 2°C per second)
** (High Resistance - In applications where temperature rise is 2°C - 5°C per second)
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(714) 917-1333 • (800) 257-3526 • FAX (714) 917-1355 • E-mail: sales@selcoproducts.com
One Shot Thermal Cutoffs
SWTC Series

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

<table>
<thead>
<tr>
<th>Electrical ratings</th>
<th>125/250VAC, 10 Amps, Continuous Duty</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dual electrical ratings</td>
<td>125/250VAC, 10 Amps, Continuous Duty</td>
</tr>
<tr>
<td>for continuous duty</td>
<td>125/250VAC, 15 Amps, Continuous Duty</td>
</tr>
</tbody>
</table>

Temperature tolerance
A = +0ºF/-7ºF (+0ºC/-4ºC) (refer to p/n chart)
B = +0ºF/-9ºF (+0ºC/-5ºC) (refer to p/n chart)
C = +0ºF/-11ºF (+0ºC/-8ºC) (refer to p/n chart)

Approvals
UL Recognized Component, CSA, VDE
RoHS Compliant

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

Determining The Proper Series

1. **TP** The highest temperature of the product to which a cutoff is to be attached
2. **TH** The safe temperature range for use of the cutoff
3. **TS** **TP - TH = TS** Where **TP** is the functioning temperature (24ºC less than or equal to TS less than or equal to 40ºC)
4. **TD** The heating temperature caused by electrical load

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.

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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.
Probe Thermostats
SIC/SIO Series

SIC/SIO Series

SIC/SIO Series - SPECIFICATIONS

Creep Action
Electrical ratings
120/240VAC, 6 Amps, Resistive, 100,000 Cycles
120VAC, 5 Amps, Inductive, 100,000 Cycles
Gold contacts available
Consult Selco for DC applications

Temperature range
41°F to 400°F (5°C to 204°C)

Differential
None - creep-action

Tolerance
±9°F (±5°C)
Consult Selco for special tolerances

Snap Action
Electrical ratings
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
±9°F (±5°C)

Pressure rating
Consult Selco

Materials
Body & tube
Brass or stainless steel - 1/4" NPT, 3/8" NPT
Headfill
Epoxy filled
Contacts
Silver or gold
Wire
18AWG, UL3173, Black
18AWG, UL1015, Black
Other lead options available

Special Model Designations for SIC/SIO Series

<table>
<thead>
<tr>
<th>Style No.</th>
<th>Thread NPT</th>
<th>2-Pipe Thread NPT</th>
<th>Tube Length (inches)</th>
<th>Material</th>
</tr>
</thead>
<tbody>
<tr>
<td>P01</td>
<td>1/4</td>
<td>-</td>
<td>0.75</td>
<td>brass</td>
</tr>
<tr>
<td>P02</td>
<td>3/8</td>
<td>-</td>
<td>1</td>
<td>brass</td>
</tr>
<tr>
<td>P04</td>
<td>1/4</td>
<td>-</td>
<td>2</td>
<td>stainless</td>
</tr>
<tr>
<td>P05</td>
<td>1/2 x 1/4</td>
<td>-</td>
<td>1.25</td>
<td>brass</td>
</tr>
<tr>
<td>P06</td>
<td>1/4</td>
<td>-</td>
<td>0.636</td>
<td>stainless</td>
</tr>
<tr>
<td>P20</td>
<td>3/8</td>
<td>-</td>
<td>1</td>
<td>stainless</td>
</tr>
<tr>
<td>P21</td>
<td>1/4</td>
<td>-</td>
<td>1</td>
<td>stainless</td>
</tr>
</tbody>
</table>

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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www.selcoproducts.com
Fixed or Adjustable Thermostats
S200A & S200-F-1 Series

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

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
- **Temperature range**: 75°F to 600°F (23ºC to 315ºC)
- **Sensitivity**: Approximate 2ºF
- **Case width**: 11/16”
- **Overall length**: 2-7/8”
- **Approvals**: UL Recognized File No. E79570(M) CSA File. LR-50152-2

---

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

### APPLICATIONS
- Heaters
- Medical
- Custom calibration
- Hot plates
- Industrial melters
- Soldering equipment

---

**Models available from stock - subject to availability**

<table>
<thead>
<tr>
<th>Model Number</th>
<th>Temperature Range</th>
<th>Overall Height</th>
<th>** Adjustment</th>
</tr>
</thead>
<tbody>
<tr>
<td>S200-A</td>
<td>Room Temperature - 525°F ± 20°F</td>
<td>1.50”</td>
<td>2ºF for every 1º angular rotation</td>
</tr>
<tr>
<td>S200-A-1008</td>
<td>Room Temperature - 550°F ± 25°F</td>
<td>2.00”</td>
<td>2ºF for every 1º angular rotation</td>
</tr>
<tr>
<td>S200-A-1325</td>
<td>Room Temperature - 425°F ± 20°F</td>
<td>1.75”</td>
<td>2ºF for every 1º angular rotation</td>
</tr>
<tr>
<td>S200-A-4051</td>
<td>Room Temperature - 205°F ± 10°F</td>
<td>1.43”</td>
<td>2ºF for every 1º angular rotation</td>
</tr>
<tr>
<td>S200-F-1</td>
<td>Room Temperature - 575°F ± 25°F</td>
<td>.795”</td>
<td>2ºF for every 1º angular rotation</td>
</tr>
</tbody>
</table>

---

* Temperature calibration service is available - consult Selco for details
** Turn clockwise to increase temperature setting
Adjustable Thermostats
TL Series

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.

### FEATURES
- Low cost
- Creep action
- Custom design

### APPLICATIONS
- Grills
- Irons
- Fryers

### SPECIFICATIONS

<table>
<thead>
<tr>
<th>Specification</th>
<th>TL 01 Model</th>
<th>TL 02 Model</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>FEATURES</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Low cost</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Creep action</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Custom design</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>APPLICATIONS</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Grills</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Irons</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fryers</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

- **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
- **Approvals**: UL Recognized File No. E145478(S), XAPX2
  - C-UL Recognized File No. E145478, XAPX8
  - VDE
  - RoHS Compliant

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www.selcoproducts.com
**Adjustable Thermostats**

**TOR Series**

**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**

<table>
<thead>
<tr>
<th>TOR Models</th>
<th>Electrical ratings</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>120VAC, 15 Amps, Resistive, 2.6FLA, 15.6LRA</td>
</tr>
<tr>
<td></td>
<td>240VAC, 10 Amps, Resistive, 1.3FLA, 7.8LRA</td>
</tr>
<tr>
<td></td>
<td>100,000 Cycles</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Temperature range</th>
</tr>
</thead>
<tbody>
<tr>
<td>0°F to 550°F (-17°C to 287°C)</td>
</tr>
<tr>
<td>450°F maximum for snap action contacts</td>
</tr>
<tr>
<td>550°F maximum for creep action contacts</td>
</tr>
<tr>
<td>Tolerance ±5% of the calibration temperature or 10°F whatever is greater</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Dielectric strength</th>
</tr>
</thead>
<tbody>
<tr>
<td>1800VAC/1 second</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Approvals</th>
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</thead>
<tbody>
<tr>
<td>UL Recognized File No. E170601, XAPX2</td>
</tr>
<tr>
<td>C-UL Recognized File No. E170601, XAPX8</td>
</tr>
<tr>
<td>RoHS Compliant</td>
</tr>
</tbody>
</table>
Cold Capillary Controls
WD and WS Series

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.

**WD Series - Constant Cut-in Thermostat**

**SPECIFICATIONS**
- 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: <50mΩ
- Insulation resistance: >100mΩ
- 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

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.

**WS Series - Push Button Defrost Thermostat**

**SPECIFICATIONS**
- 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: <50mΩ
- Insulation resistance: >100MΩ
- Dielectric strength: AC 50/60Hz, 1500V/1 minute
- VDE electrical ratings: 250VAC, 5 Amps
- Shift of defrosting shaft: 3.7 ± 5mm
- Approvals: RoHS Compliant

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Cold Capillary Controls
WK and WK-H Series

Applications
- Coolers
- Freezers
- Refrigerators
- Ice machines
- 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. High 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

| Temperature range | -31°F to 104°F (-35°C to 40°C) with bulb
|                  | -31°F to 90°F (-35°C to 32°C) no bulb
| Maximum temperature range | 36°F (20°C)
| Differential | 4°F to 9°F (2°C to 5°C)
| Tolerance | 2.7°F (1.5°C) at calibration point
|            | 3.6°F (2.0°C) at non-calibration point
| Contact resistance | <50mΩ
| Insulation resistance | >100mΩ
| Dielectric strength | AC 50/60Hz, 1500V/1 minute
| UL/CSA/VDE electrical ratings | 125/250VAC, 20 Amps, Resistive
| Model WK | 100,000 Cycles
| Inductive load ratings | 125/250VAC, 20FLA, 80LRA
| UL/CSA/VDE electrical ratings | 125/250VAC, 20 Amps, Resistive
| Model WK-H | 100,000 Cycles
| Inductive load ratings | 125/250VAC, 25FLA, 100LRA
| Approvals | UL Recognized File No. E195847, SDFY2
|            | C-UL Recognized File No. E195847, SDFY8
|            | VDE
|            | RoHS Compliant

Models available from stock - subject to availability

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Temperature Settings</th>
</tr>
</thead>
<tbody>
<tr>
<td>WK1V-115-020</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Switch Action</td>
</tr>
<tr>
<td></td>
<td>ON</td>
</tr>
<tr>
<td></td>
<td>OFF</td>
</tr>
<tr>
<td>WKF29.4S-005-120</td>
<td></td>
</tr>
<tr>
<td></td>
<td>ON</td>
</tr>
<tr>
<td></td>
<td>OFF</td>
</tr>
<tr>
<td>WKF20.6E-007-020</td>
<td></td>
</tr>
<tr>
<td></td>
<td>ON</td>
</tr>
<tr>
<td></td>
<td>OFF</td>
</tr>
<tr>
<td>WKF11V-109-021T</td>
<td></td>
</tr>
<tr>
<td></td>
<td>ON</td>
</tr>
<tr>
<td></td>
<td>OFF</td>
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<tr>
<td>WKF1V-005-020-1</td>
<td></td>
</tr>
<tr>
<td></td>
<td>ON</td>
</tr>
<tr>
<td></td>
<td>OFF</td>
</tr>
<tr>
<td>WKF1A-102-022 (Constant Cut-In)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>ON</td>
</tr>
<tr>
<td></td>
<td>OFF</td>
</tr>
<tr>
<td>WK15.6S-408-060</td>
<td></td>
</tr>
<tr>
<td></td>
<td>ON</td>
</tr>
<tr>
<td></td>
<td>OFF</td>
</tr>
</tbody>
</table>

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

Bracket Options

Terminal Options

<table>
<thead>
<tr>
<th>Terminal</th>
<th>A x B (mm)</th>
<th>C (mm)</th>
<th>D (inches)</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>#187</td>
<td>4.75 x 0.55</td>
<td>3.2 + 0.25</td>
<td>1.4</td>
<td>1 or 5, 1 or 3</td>
</tr>
<tr>
<td>#250</td>
<td>4.75 x 0.8</td>
<td>4.2 + 0.3</td>
<td>1.4</td>
<td>3 or 7, 5 or 7</td>
</tr>
<tr>
<td>#187</td>
<td>6.35 x 0.8</td>
<td>3.2 + 0.25</td>
<td>1.6</td>
<td>2 or 6, 2 or 4</td>
</tr>
</tbody>
</table>

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
APPLICATIONS
- Refrigerators


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

SPECIFICATIONS

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Electrical ratings</td>
<td>250V, 6 Amps, 50Hz</td>
</tr>
<tr>
<td>Inductive load ratings</td>
<td>250V, 6FLA, 36LRA 120V, 10FLA, 40LRA</td>
</tr>
<tr>
<td>Temperature range</td>
<td>-25°F to 42°F (-32°C to 6°C)</td>
</tr>
<tr>
<td>Adjustment range</td>
<td>4 to 18K</td>
</tr>
<tr>
<td>Tolerance</td>
<td>2.7°F (1.5°C) at calibration point</td>
</tr>
<tr>
<td></td>
<td>3.6°F (2.0°C) at non-calibration point</td>
</tr>
<tr>
<td>Contact resistance</td>
<td>&lt;50m Ω</td>
</tr>
<tr>
<td>Insulation resistance</td>
<td>&gt;100M Ω</td>
</tr>
<tr>
<td>Dielectric strength</td>
<td>AC 50/60Hz, 1500V/1 minute</td>
</tr>
<tr>
<td>Approvals</td>
<td>UL and C-UL Recognized VDE</td>
</tr>
</tbody>
</table>

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

- In = Failing Temperature
- Out = Warm, Cold

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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**Cold Capillary Controls**

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

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

<table>
<thead>
<tr>
<th><strong>Electrical ratings</strong></th>
<th>250V, 6 Amps, 50Hz</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Inductive load ratings</strong></td>
<td>250V, 6FLA, 36LRA</td>
</tr>
<tr>
<td></td>
<td>120V, 10FLA, 40LRA</td>
</tr>
<tr>
<td><strong>Temperature range</strong></td>
<td>-40ºF to 104ºF (-40ºC to 40ºC)</td>
</tr>
<tr>
<td><strong>Adjustment range</strong></td>
<td>Version A: 4 to 30K</td>
</tr>
<tr>
<td></td>
<td>Version B: 5 to 15K</td>
</tr>
<tr>
<td><strong>Differential</strong></td>
<td>Version A: 3 to 14K</td>
</tr>
<tr>
<td></td>
<td>Version B: 10 to 25K</td>
</tr>
<tr>
<td><strong>Tolerance</strong></td>
<td>2.7ºF (1.5ºC) at calibration point</td>
</tr>
<tr>
<td></td>
<td>3.6ºF (2.0ºC) at non-calibration point</td>
</tr>
<tr>
<td><strong>Contact resistance</strong></td>
<td>&lt;50mΩ</td>
</tr>
<tr>
<td><strong>Insulation resistance</strong></td>
<td>&gt;100MΩ</td>
</tr>
<tr>
<td><strong>Dielectric strength</strong></td>
<td>AC 50/60Hz, 1500V/1 minute</td>
</tr>
<tr>
<td><strong>Approvals</strong></td>
<td>UL and C-UL Recognized</td>
</tr>
<tr>
<td></td>
<td>VDE</td>
</tr>
</tbody>
</table>

### APPLICATIONS

- Automotive air conditioning
- Refrigerating/freezing devices

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

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

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 0.157 (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:

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Electrical ratings</td>
<td>250V, 6 Amps, 50Hz</td>
</tr>
<tr>
<td>Inductive load ratings</td>
<td>250V, 6FLA, 36LRA</td>
</tr>
<tr>
<td>Temperature range</td>
<td>-40°F to 104°F (-40°C to 40°C)</td>
</tr>
<tr>
<td>Adjustment range</td>
<td>4 to 14K</td>
</tr>
<tr>
<td>Differential</td>
<td>4 to 14K</td>
</tr>
<tr>
<td>Defrost temperature</td>
<td>Possible between 2°C and 10°C</td>
</tr>
<tr>
<td>Differential of defrost</td>
<td>4.5°F (2.5°C)</td>
</tr>
<tr>
<td>Temperature</td>
<td>WARM-IN minimum 4K</td>
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<tr>
<td>Tolerance</td>
<td>2.7°F (1.5°C) at calibration point</td>
</tr>
<tr>
<td>Contact resistance</td>
<td>&lt;50m Ω</td>
</tr>
<tr>
<td>Insulation resistance</td>
<td>&gt;100M Ω</td>
</tr>
<tr>
<td>Dielectric strength</td>
<td>AC 50/60Hz, 1500V/1 minute</td>
</tr>
<tr>
<td>Approvals</td>
<td>UL and C-UL Recognized</td>
</tr>
<tr>
<td>Approvals</td>
<td>VDE</td>
</tr>
</tbody>
</table>

Typical Electrical Wiring Diagram

Typical Function Chart
Cold Capillary Controls
KX Series - Temperature Control with S.P.S.T. Switch and Signal

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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APPLICATIONS
• Freezers

Terminal 3-4: Closes on temperature rise
Terminal 3-6: Closes when warning temperature has been reached

SPECIFICATIONS

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Electrical ratings</td>
<td>250V, 50Hz</td>
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<tr>
<td></td>
<td>Terminal 3-4: 6 Amps</td>
</tr>
<tr>
<td></td>
<td>Terminal 3-6: 0.1 Amps</td>
</tr>
<tr>
<td>Temperature range</td>
<td>-40°F to 104°F (-40°C to 40°C)</td>
</tr>
<tr>
<td>Adjustment range</td>
<td>4 to 30K</td>
</tr>
<tr>
<td>Differential</td>
<td>3 to 14K</td>
</tr>
<tr>
<td>Signal differential</td>
<td>4 to 7K</td>
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<tr>
<td>Tolerance</td>
<td>2.7°F (1.5°C) at calibration point</td>
</tr>
<tr>
<td></td>
<td>3.6°F (2.0°C) at non-calibration point</td>
</tr>
<tr>
<td>Contact resistance</td>
<td>&lt;50m Ω</td>
</tr>
<tr>
<td>Insulation resistance</td>
<td>&gt;100M Ω</td>
</tr>
<tr>
<td>Dielectric strength</td>
<td>AC 50/60Hz, 1500V/1 minute</td>
</tr>
<tr>
<td>Approvals</td>
<td>UL and C-UL Recognized</td>
</tr>
<tr>
<td></td>
<td>VDE</td>
</tr>
</tbody>
</table>

Typical Electrical Wiring Diagram
Typical Function Chart

3-4 Main switch closes at temperature rise
3-6 Signal switch closes at temperature rise
C Compressor
S1 Warning lamp indicates to high temperature
Cold Capillary Controls - Accessories
Brackets, Terminals, Dial Plates and Knobs

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 Thermostats
8HQ, 8HR and 8HW Series

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 controls. 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: -4°F to 608°F (-20ºC to 320ºC)
Electrical ratings: 120/240VAC, 30 Amps, Resistive 100,000 Cycles
Material options: Copper, stainless steel, nickel plated
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
8HQ
- S.P.S.T.
- 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

8JQ
- D.P.S.T. - Double pole
- Normally closed (open on temperature rise)
- 2 x 30 Amp, 250 Volt

8JW
- 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

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

www.selcoproducts.com
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.

Model 8JQ
D.P.S.T. - Normally closed, open on temperature rise
2 x 30 Amps, 250 Volts

Model 8JW
D.P.S.T. - Normally closed (open on temperature rise) with positive off
2 x 30 Amps, 250 Volts - Positive off switch available upon request

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

**FEATURES**
- Stock models
- 20 Amps capacity
- All agency approvals

**APPLICATIONS**
- Heaters
- Test systems
- Food service equipment

**SPECIFICATIONS**

<table>
<thead>
<tr>
<th>Temperature range</th>
<th>32°F to 752°F (0°C to 400°C)</th>
</tr>
</thead>
</table>

**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

**European**
- VDE, SEMKO, KEMA

| Terminal Options |

<table>
<thead>
<tr>
<th>Horizontal</th>
<th>Vertical</th>
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</thead>
<tbody>
<tr>
<td>[Diagram]</td>
<td>[Diagram]</td>
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</table>

<table>
<thead>
<tr>
<th>Screw (#8-32 or 4mm)</th>
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<table>
<thead>
<tr>
<th>Shaft Length</th>
<th>Mounting Bracket Center Holes</th>
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<tr>
<td>Shaft diameter ø24 (ø6) x .18 (4.6)</td>
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</tr>
<tr>
<td>0.52</td>
<td>13</td>
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<tr>
<td>0.71</td>
<td>18</td>
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<tr>
<td>0.87</td>
<td>22</td>
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</tbody>
</table>

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

www.selcoproducts.com
### Standard Mechanical Specifications

<table>
<thead>
<tr>
<th>Temperature Ranges</th>
<th>Max. Ambient Exposure of Thermostat Case</th>
<th>Max. Working Temperature of the Bulb</th>
<th>Diameter of Copper Bulb</th>
<th>Diameter of Stainless Steel Bulb</th>
<th>Capillary Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>°F</td>
<td>°C</td>
<td>°F</td>
<td>°F</td>
<td>°C</td>
<td>Length</td>
</tr>
<tr>
<td>140-752</td>
<td>60-400</td>
<td>302</td>
<td>150</td>
<td>752</td>
<td>400</td>
</tr>
<tr>
<td>120-570</td>
<td>50-300</td>
<td>302</td>
<td>150</td>
<td>600</td>
<td>315</td>
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<tr>
<td>120-570</td>
<td>50-300</td>
<td>302</td>
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<td>600</td>
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<td>120-570</td>
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<td>120-428</td>
<td>50-220</td>
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<td>40-44</td>
<td>80-160</td>
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<td>85-195</td>
<td>30-90</td>
<td>212</td>
<td>100</td>
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<td>30-110</td>
<td>212</td>
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<td>85-248</td>
<td>30-120</td>
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<td>270</td>
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<td>85-302</td>
<td>30-150</td>
<td>212</td>
<td>100</td>
<td>316</td>
<td>158</td>
</tr>
</tbody>
</table>

*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
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.
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.

Models available from stock - subject to availability

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Diameter</th>
<th>Height</th>
<th>Material</th>
<th>Printing</th>
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<tbody>
<tr>
<td></td>
<td>inches</td>
<td>mm</td>
<td>inches</td>
<td>mm</td>
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<tr>
<td>2266A/68-118</td>
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<td>66.5</td>
<td>1.00</td>
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<td>2302L</td>
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<td>0.96</td>
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<tr>
<td>A1010-3-250-SS2B</td>
<td>1.85</td>
<td>47</td>
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<tr>
<td>CAP-1-10-KN OB</td>
<td>1.65</td>
<td>42</td>
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<tr>
<td>CAP-ARROW-KN OB</td>
<td>1.44</td>
<td>36.7</td>
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</tr>
<tr>
<td>CAP-COMET-KN OB</td>
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<td>0.63</td>
<td>16</td>
</tr>
<tr>
<td>CAP-XXX-KN OB</td>
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<td>0.63</td>
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<td>0.38</td>
<td>9.6</td>
</tr>
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<td>29</td>
<td>0.69</td>
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<td>DRD157006/110</td>
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<td>29</td>
<td>0.69</td>
<td>17.5</td>
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<tr>
<td>CAP-BEZELS</td>
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<td>60</td>
<td>0.16</td>
<td>4.2</td>
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<tr>
<td>CAP-BEZELS-1</td>
<td>1.91</td>
<td>48</td>
<td>0.15</td>
<td>3.7</td>
</tr>
</tbody>
</table>

* Shaft size: All knobs fit .24” x .18” (6mm x 4.6mm)
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 specialty 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.

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

2. 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.

3. 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.

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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www.selcoproducts.com
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*
Selco/ECC Model 2698/2699 Cold/Hot Controllers offer high-end 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.
NEW - Available IQ2008

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 0ºC to 999ºC
  * Connections for two thermistors with ranges of -40ºC to +150ºC
  * Connections for up to two additional digital inputs, for humidity, pressure, etc.

• Support for standard or custom user-display panels

• 3 Onboard Relays
  * One rated 30 Amps
  * Two rated at 10 Amps

• Operate with 120VAC or 230VAC

• UL and CSA approvals pending
FEATURES
- Microprocessor control
- UL approved file #: E230832
- LED display of time and temperature
- Temperature setpoint differential adjustable from 1 to 10 degrees
- 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.

ORDERING MAP

2901A - X 0 0 0

Input Voltage Options
1 = 115VAC; 50/60Hz
2 = 230VAC; 50/60Hz
3 = 208VAC; 50/60Hz
4 = User Selectable - Standard Transformer
115/230VAC; 50/60Hz
5 = 12-24VAC/VDC; 50/60Hz*  

Recommended SSR External Output Device
Description | 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  

SPECIFICATIONS

**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

**Environment**
- Operational temperature range: 0º to 158ºF

**Factory Options**
- Miniature iso-therm connector instead of two screw terminal blocks for thermocouple

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
Programmable Timer
Model 2831

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www.selcoproducts.com

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 dispensing
- 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

<table>
<thead>
<tr>
<th>Input Power</th>
<th>Selection either by fixed factory setting or jumper selectable field setting</th>
</tr>
</thead>
<tbody>
<tr>
<td>Input/Output Power Power Connections</td>
<td>Amp Part #: 770968-1, Type 4 pin PCB mount connector (Amp Mating Plug #: 172167-1, Pins #: 77098-1)</td>
</tr>
<tr>
<td>Input Signals</td>
<td>AC start, cycle select, program, alternate start</td>
</tr>
<tr>
<td>Input Signal Connections</td>
<td>0.1” Molex IDC type 4 pin connector</td>
</tr>
<tr>
<td>Outputs</td>
<td>Connects up to 10A load to input power</td>
</tr>
<tr>
<td>Control Logic</td>
<td>Two separately teachable timers with one start switch and one timing select switch</td>
</tr>
<tr>
<td>Timing Range</td>
<td>0.050 seconds to 54 minutes Other timing ranges available</td>
</tr>
<tr>
<td>Timing Resolution</td>
<td>0.050 seconds</td>
</tr>
<tr>
<td>Timing Repeatability</td>
<td>1%</td>
</tr>
<tr>
<td>Mechanical</td>
<td>Overall dimensions: 2.35” W x 3.6” L x 1.5” D Four standoffs are included to mount in 0.156” mounting holes. Mounting footprint is for 1.75” x 3.0” mounting dimensions.</td>
</tr>
<tr>
<td>Maximum Operating Environmental Temperature</td>
<td>+30ºF to 158ºF; 0 to 90%RH, non-condensing</td>
</tr>
</tbody>
</table>

Options

- Conformal coating

ORDERING MAP

2831 - X X X X

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
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 applied 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 Terphthalate

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.

Returns
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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