This Coilcraft current sensor is intended for measuring current from 1 to 10 A\textsubscript{rms}. The sensor functions as the encapsulated secondary of a current transformer, while the conductor carrying the current to be measured serves as the “one turn primary.” Sensitivity may be enhanced by increasing primary turns.

Minimum wall thickness of the hole is 0.5 mm to meet IEC 380 and other requirements when used with an insulated conductor.

Applications include sensing branch circuit overload and detecting load drop or shutdown.

Coilcraft Designer’s Kit P403 contains two samples of this sensor and 15 samples of nine different high frequency current sensors. To order, contact Coilcraft or visit http://order.coilcraft.com.

### Part number, Sensed current I\textsubscript{rms}, V\textsubscript{out} tolerance

<table>
<thead>
<tr>
<th>Part number</th>
<th>Sensed current I\textsubscript{rms}</th>
<th>V\textsubscript{out} tolerance</th>
</tr>
</thead>
<tbody>
<tr>
<td>CS60-010</td>
<td>1–10 A\textsubscript{rms}</td>
<td>±10%</td>
</tr>
</tbody>
</table>

(For sensed current above 10 Arms, see CS80 data sheet)

1. When ordering, please specify termination code:

    \text{Termination: L} = \text{RoHS compliant tin-silver over copper.}
    
    \text{Special order: T} = \text{RoHS tin-silver-copper (95.5/4/0.5)}
    
    \text{or} \text{S} = \text{non-RoHS tin-lead (63/37)}.

2. Ambient temperature range –40°C to +85°C.

3. Electrical specifications at 25°C.

#### Typical Application

Dimensions are in inches and mm.

Weight: 5.8 g

### Typical Response

- **V\textsubscript{out} (mV/\text{rms} P-P)**
- **Current (A\textsubscript{rms})**

#### Typical Application

- **I\textsubscript{rms}**
- **V\textsubscript{out\text{rms}}**
- **50Ω**
- **Date code**
- **Weight**: 5.8 g