HCS Current Sensor

The HCS is a high-range current sensor with sense capabilities from 8 to 60 amps AC. The set point is either factory fixed or adjustable.

HCS is completely self-powered with solid state DC switching to interface with a Programmable Logic Control (PLC) or control relays.

Sense Mode

When the sensed current reaches the setpoint the output turns on.

When the current goes below setpoint the output turns off.

- Toroidal sensing provides total isolation between sensed current and output circuit
- Setpoint adjusted by on board potentiometer or factory-fixed, up to 60 amps
- Self powered, no external supply voltage needed
- Compact 2” x 2” package with single screw mounting

FEATURES

- Totally encapsulated for protection from harsh environments
- Direct connection to PLC input
- 100% Operational testing before shipping
- Designed and manufactured in the U.S.A.
- RoHS compliant
**SPECIFICATIONS**

**Input Voltage:** 3–50VDC  
**Load:** Up to 1 Amp–solid state switching  
**Sensor:** Toroid–Through hole wiring  
**Current Range:** 8 Amps minimum to 60 Amps maximum  
**Hysteresis:** ±5% of set point typical  
**Adjustability:** Linear min to max with trimpot option  
**Stability:** ±2% over temperature  
**Temperature Ranges:**  
- **Storage:** -40°C to +85°C  
- **Operating:** -25°C to +65°C

**OPTIONS SELECTION**

<table>
<thead>
<tr>
<th>Mode of Operation</th>
<th>Series</th>
<th>Input Voltage</th>
<th>Sensing Range</th>
<th>Adjustment</th>
</tr>
</thead>
<tbody>
<tr>
<td>Current Sensor</td>
<td>HCS</td>
<td>3-50 VDC</td>
<td>Variable Ranges</td>
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<td></td>
<td></td>
<td></td>
<td>030 8A to 30A</td>
<td>C = Factory fixed</td>
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<td>045 8A to 45A</td>
<td>A = Variable, integral, potentiometer</td>
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<td></td>
<td>060 10A to 60A</td>
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<td>others by request</td>
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<td>Fixed Ranges</td>
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<td></td>
<td>Specify Actuate setting</td>
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<td></td>
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<td></td>
<td>(example: 010 = 10amps)</td>
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Specifications subject to change without notice.