SE Current Monitoring Series
H921-S6

SPECIFICATIONS

Sensor Power ................. 30 mA (max.)@12-30 VDC
Amperage Range .................. 0 to 30/60/120 A
(slide switch selectable)
Sensor Output .................... 4-20 mA
Response Time ................... 2 sec.
Insulation Class ................ 300 VAC RMS, insulated conductors only
Frequency ........................ 50/60 Hz
Temperature Range ............. -15°C to 60°C (5°F to 140°F)
Humidity Range ................. 10-90% RH non-condensing
Accuracy ........................ ±2% FS from 10% to 100% of selected range
Terminal Block Wire Size ........ 0.2 to 2.1 mm²
(24 to 14 AWG)
Terminal Block Torque ........... 0.4 to 0.5 N-m
(3.5 to 4.4 in-lb)
Agency Approvals ............. CE:EN61010-1:2001
Installation Category ........... Cat. III, pollution degree 2

For CE compliance, conductor shall be insulated according to IEC 61010-1:2010. The product design provides for basic insulation only.

The Schneider Electric H921-S6 is a current transducer that senses current (amperage) in any of three field-selectable ranges: 0-30, 0-60, or 0-120 amperes. These ranges represent the maximum current that can be applied to the monitored conductor. The H921-S6 transforms the monitored current value into a 4-20 mA output suitable for connection to building controllers or other appropriate data acquisition equipment. The H921-S6 requires 12-30 VDC external power to generate its output.

HAZARD OF ELECTRIC SHOCK, EXPLOSION, OR ARC FLASH

• This product is not intended for life or safety applications.
• Do not install this product in hazardous or classified locations.
• The installer is responsible for conformance to all applicable codes.
• Mount this product inside a suitable fire and electrical enclosure.
INSTALLATION

Disconnect and lock out power to the enclosure containing the conductor to be monitored.

1. Locate a mounting surface for the removable mounting bracket that will allow the monitored conductor to pass through the center window when it is installed and that will keep the product at least 13 mm (½ in.) from any uninsulated conductors. Determine cable routing for the controller connection, allowing wiring to reach the mounting location.

2. Drill holes to mount the bracket to the chosen surface using the included screws.

3. Wire the output connections between the sensor and the controller (4-20 mA).

4. Snap the sensor over the wire to be monitored and clip the assembly to the mounting bracket.

5. Select the desired amperage range on the transducer.

6. Secure the enclosure and reconnect power.

7. Scale the controller software to match the transducer output.

WIRING EXAMPLES

External Power

Sourcing Panel (- Common)

Sinking Panel (+ Common)

SCALING

Set the amperage range selector switch to a level appropriate for the application load, 0-30, 0-60, or 0-120 Amps.
**LOW CURRENT APPLICATIONS**

For load currents less than sensor minimum rating, wrap the monitored conductor through the center window and around the sensor body to produce multiple turns. This increases the current measured by the transducer. Program the controller to account for the extra turns, e.g., if four turns pass through the sensor, then divide the reading by 4.

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**HIGH CURRENT APPLICATIONS**

For load currents greater than sensor maximum rating, use a 5 Amp current transformer (CT) as shown. This technique can be combined with wrapping (see above). Select an amperage range on the current sensor that matches the CT maximum output (accounting for any wrapping) to enable the entire current sensor output range. Do not exceed the current sensor rating.

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**TROUBLESHOOTING**

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<th>PROBLEM</th>
<th>SOLUTION</th>
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| No Reading at Controller | • Confirm that a 12-30 VDC supply is connected in series with the sensor output terminals and the control panel analog input.  
• Confirm measured current is within the selected range.  
• Check polarity of the sensor output connections.  
• Assure that sensor core mating surfaces are clean and that the core clamp is completely closed. |

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**PRODUCT INFORMATION**

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<thead>
<tr>
<th>Ordering Code</th>
<th>Model Number</th>
<th>Description</th>
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<tbody>
<tr>
<td>324-0203-000</td>
<td>H921-S6</td>
<td>1-Xdcr.SP30/60/120AAC:4-20mA</td>
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