CAN transceiver interface to switches and controls

**APPLICATIONS**
- Simplify wiring in busy control panels and dashboards
- Reduce number of wires needed - great for long cable runs

**BENEFITS**
- **Reduced Wiring**
  Clean up crowded control panels. Up to 56 switches and 4 analog inputs can be combined into a single CAN cable.
- **Flexible Configuration**
  Use your own preferred switches of virtually any type or arrangement.
- **Switch “friendly”**
  On-board power supply provides 32VDC excitation - reduces oxidation and extends switch life.
- **Analog/Proportional Inputs**
  4 analog inputs provided to incorporate analog devices such as potentiometers, sensors, or joysticks.
- **Wide Compatibility**
  Factory programmable for a wide range of CAN-compatible protocols and network addresses.

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**WIRING**

**ORDERING INFORMATION**

<table>
<thead>
<tr>
<th>PART #</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>CANSWTB</td>
<td>Terminal block for field wiring customer switches</td>
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</table>

Consult factory for available protocols.
### Specifications

**General**
- **Power requirement**: 12-30vdc, 50mA nominal
- **Fuse**: Self-resetting

**Inputs**
- **Digital**: Up to 56 dry contact inputs
- **Analog**: 4 x 0.5v to 4.5vdc

**Communication**
- **CAN**: Compatible with most popular controllers, consult factory

**Dimensions/Mounting**
- **CANSWTB**: 6.5"l x 2.85"w x 1.85"h

**Environmental**
- **Conformal coated, enclosure required for environmental sealing**
- **Operating temperature**: -30°C to 65°C

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**Wiring**

The wiring diagram includes a connection matrix for the DEUTSCH WSS WEDGE plug and a CANBUS socket. Each pin is labeled with its function, such as GROUND, BATTERY, CAN HI, CAN LO, CAN SHIELD, and NO CONNECT.

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**Point Map**

- **Address**: 11 or 29 bits factory set - consult factory for specific requirements
- **Data Rate**: 250kbps; update 20 times per second

**Address 0x96 (150 decimal)**

<table>
<thead>
<tr>
<th>PIN</th>
<th>CANBUS</th>
</tr>
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<tbody>
<tr>
<td>1</td>
<td>GROUND - NEGATIVE</td>
</tr>
<tr>
<td>2</td>
<td>BATTERY + POSITIVE</td>
</tr>
<tr>
<td>3</td>
<td>CAN HI</td>
</tr>
<tr>
<td>4</td>
<td>CAN LO</td>
</tr>
<tr>
<td>5</td>
<td>CAN SHIELD</td>
</tr>
<tr>
<td>6</td>
<td>NO CONNECT</td>
</tr>
</tbody>
</table>

**Address 0x97 (151 decimal)**

- **Byte 7 reserved, TBD**
- **Heartbeat output changes state every update. Controller should be programmed to monitor this output for fault detection.**