Active stub line ASTL

Function

The ASTL allows the feedback-free connection of a device as an active stub line. This is possible because of the integrated repeater function in the connector. The 5 V supply required for repeater operation shall be made available through the pin 5 (GND) and the pin 6 (+5 V) of the contacted 9-pin sub-D socket. It can be basically assumed that all slaves of the PROFIBUS norms support the relevant pin assignment. It can be basically assumed that all slaves of the PROFIBUS norms support the relevant pin assignment.

Connection

- 9-pin sub-D plug with integrated repeater (X1 cable outlet axial)
- 9-pin sub-D plug (X2 outlet axial 35°)

Electrical parameters

- Baud rate: 9.6 kbps to 12 Mbps
- Supply voltage: 4.75 to 5.25 VDC has to be provided by each PROFIBUS user (Pin 5 GND, Pin 6 +5V)

Design

- Weight: approx. 250 g
- Length: 3 m and 10 m

Ambient conditions

- Operating temperature: 0 °C to +60 °C
- Transport / storage temperature: -20 °C to +60 °C
- Industrial protection: P20
- Relative humidity: max. 75 % (non-condensing)

Pin assignment

Connector X1, connection measuring (repeater function)

<table>
<thead>
<tr>
<th>Pin</th>
<th>Function</th>
<th>Note</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>not used</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>M24</td>
<td>connects to X2 Pin 2</td>
</tr>
<tr>
<td>3</td>
<td>B</td>
<td>RS 485 data</td>
</tr>
<tr>
<td>4</td>
<td>not used</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>GND</td>
<td>connects to X2 Pin 5</td>
</tr>
<tr>
<td>6</td>
<td>VCC</td>
<td>supply voltage +5V</td>
</tr>
<tr>
<td>7</td>
<td>P24</td>
<td>connects to X2 Pin 7</td>
</tr>
<tr>
<td>8</td>
<td>A</td>
<td>RS 485 data reversed</td>
</tr>
<tr>
<td>9</td>
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Connector X2, connection slave

<table>
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<tr>
<td>2</td>
<td>M24</td>
<td>connects to X1 Pin 2</td>
</tr>
<tr>
<td>3</td>
<td>B</td>
<td>RS 485 data</td>
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<tr>
<td>4</td>
<td>RTS - AS</td>
<td>directional control from slave</td>
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<tr>
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<td>GND</td>
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<tr>
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<tr>
<td>7</td>
<td>P24</td>
<td>connects to X1 Pin 7</td>
</tr>
<tr>
<td>8</td>
<td>A</td>
<td>RS 485 data reversed</td>
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<tr>
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Ordering details

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