RESOLVER G-REC

RESOLVER TO ENCODER CONVERTER

The LTN-REC is a position data converter. The LTN-REC drives autonomous a resolver sensor and converts its output signals to encoder incremental (square wave) output signals (emulates encoder signals).

SPECIFICATIONS - ENCODER OUTPUT

- Output Signals: incremental A+, A-, B+, B-, Z+, Z-
- Resolution: 12 bit / 1024 incremental steps per revolution
- Output Voltage Level: 5 V (TTL), 14-36 V (HTL) limited by the supply voltage
- Output Current: 100 mA limited, short circuit proof
- Dynamic Peak Current: 1500 mA max.
- Accuracy: +/- 0.184° (+/- 11 arcmin)
- Repeatability: +/- 1/4 of incremental step
- Angular speed: up to 1000 s⁻¹

RESOLVER OUTPUT / INPUT

- Output Ref. Signal: 2.8 Vrms
- 100 mA max.
- 10 kHz
- Input SIN / COS: 1.4 Vmax (diff.)
- Transformation Ratio: K = 0.5 +/- 10%

POWER SUPPLY

- Supply Voltage (+Vc): +8 to +15 VDC or +14 to +36 VDC
- Power Consumption: ~1 W (e.g. 40 mA at 24V)
- Operating Temperature: 0 to +85 °C

The supply voltage can be supplied via the power connector or optionally via the encoder connector (from the encoder decoding unit). The G-REC is protected against the wrong polarity and transient overvoltage of power supply and short circuit proof on output terminals.

Housing: Phoenix Contact „ME 22,5“ for top hat rail mounting
Dimensions: l=114.5 mm; h = 99 mm, w = 22.5 mm
CONNECTOR TERMINALS

<table>
<thead>
<tr>
<th>Encoder Out:</th>
<th>Resolver IN:</th>
<th>Power connector:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sub-D, 9-pole male -&gt; mating connector: female</td>
<td>Sub-D, 9-pole female -&gt; mating connector: male</td>
<td>4-pole plug, screw wire connection, included</td>
</tr>
<tr>
<td>Pin 1</td>
<td>GND</td>
<td>Pin 1 (left)</td>
</tr>
<tr>
<td>Pin 2</td>
<td>Z-</td>
<td>Pin 2</td>
</tr>
<tr>
<td>Pin 3</td>
<td>Z+</td>
<td>Pin 3</td>
</tr>
<tr>
<td>Pin 4</td>
<td>A</td>
<td>Pin 4</td>
</tr>
<tr>
<td>Pin 5</td>
<td>A+</td>
<td>Pin 5</td>
</tr>
<tr>
<td>Pin 6</td>
<td>-</td>
<td>Pin 6</td>
</tr>
<tr>
<td>Pin 7</td>
<td>+V4 (Opt.)</td>
<td>Pin 7</td>
</tr>
<tr>
<td>Pin 8</td>
<td>B-</td>
<td>Pin 8</td>
</tr>
<tr>
<td>Pin 9</td>
<td>B+</td>
<td>Pin 9</td>
</tr>
<tr>
<td>Screen</td>
<td>PE</td>
<td>Screen</td>
</tr>
</tbody>
</table>

The PE connection (protective earth) is implemented over the mounting clamp to the top hat rail.

ORDERING INFORMATION

- **G-RECLDBI1024-5X1-15**
  - Supply Voltage (+V4): +8 to +15 VDC
  - Output Voltage Level: 5V
  - Part Number: 3933542
- **G-RECLDBI1024-5X1-24**
  - Supply Voltage (+V4): +14 to +36 VDC
  - Output Voltage Level: 5V
  - Part Number: 3931647
- **G-RECKIBI1024-5X1-24**
  - Supply Voltage (+V4): +14 to +36 VDC
  - Output Voltage Level: V4
  - Part Number: 3932553

Other configurations on request.