Model 925 Heavy Duty Single Turn Absolute

Features
- Standard Size 25 Package (63.5mm)
- Resolutions Up To 12 Bit (4096 Counts)
- Incorporates Opto-ASIC Technology
- Industrial Grade, Heavy Duty Housing
- Wide Range of Operating Voltages (4.75 to 24 Vcc)

The Model 925 Single Turn Absolute is ideal for a wide variety of industrial applications that require an encoder with the capability of absolute positioning output. Its fully digital output and innovative use of Opto-ASIC technology make the Model 925 an excellent choice for all applications, especially ones with a high presence of noise. Available with either round servo or square flange mounting, and a variety of connector and cabling options, the Model 925 is easily designed into a variety of application requirements. The Model 925, with its wide selection of shaft sizes supported by industrial grade, heavy duty bearings, is ideal for rough environments.

Model 925 Ordering Guide

Red type indicates price adder options. Not all configuration combinations may be available. Contact Customer Service for details.

Model 925 Resolution Table

For specification assistance call Customer Service at +44 (0)1978 262100

NOTES:
1. For non-standard cable lengths - contact sales office for availability.
2. Only available with 8 bit resolution encoder.

BRITISH ENCODER PRODUCTS Co., UNIT 33 WHITEGATE INDUSTRIAL ESTATE, WREXHAM, LL13 8UG, UNITED KINGDOM
TEL: +44 (0)1978 262100 - FAX: +44 (0)1978 262101 - WEB: WWW.ENCODER.CO.UK - EMAIL: SALES@ENCODER.CO.UK

Page 50
Model 925 Heavy Duty
Single Turn Absolute

Model 925 Specifications

Electrical
- Input Voltage: 4.75 to 24 Vcc max
- Regulation: 100 mV peak-to-peak, max ripple at 0 to 10 kHz
- Input Current: 100 mA max with no external load
- Output Format: Absolute- Parallel Outputs
- Output Type: Push-Pull, 20 mA max per channel
- Code: Gray Code, Natural Binary Code, Excess Gray Code
- Max Frequency: 50 kHz (LSB)
- Rise Time: Less than 1 microsecond
- Resolution: Up to 12 bit
- Accuracy: ±1/2 LSB

Control
- Directional Control: Field selectable for increasing counts (CW or CCW)

Mechanical
- Max Shaft Speed: 6000 RPM continuous
- Shaft Size: 0.250", 0.3125", 0.375", 6 mm, 8 mm
- Radial Shaft Load: 15 Kg max
- Axial Shaft Load: 20 Kg max
- Starting Torque: 7.061 x 10⁻³ Nm typical for no seal
- Max Acceleration: 1.412 x 10⁻² Nm with IP64 shaft seal
- Radial Shaft Load: 15 Kg max
- Axial Shaft Load: 20 Kg max
- Starting Torque: 7.061 x 10⁻³ Nm typical for no seal
- Max Acceleration: 1.412 x 10⁻² Nm with IP64 shaft seal

Environmental
- Operating Temp: 0º to 70º C
- Storage Temp: -20º to +85º C
- Humidity: 98% RH non-condensing
- Vibration: 10 g @ 58 to 500 Hz
- Shock: 20 g @ 11 ms duration
- Sealing: IP65 (standard)
- IP64, IP65 optional

Model 925 Flange Mount F1

Model 925 Servo Mount S1

Wiring Table

<table>
<thead>
<tr>
<th>Function</th>
<th>19-PIN KTP2E14.4SP</th>
<th>10-PIN* MS</th>
<th>Gland Cable or Matting Conn.</th>
</tr>
</thead>
<tbody>
<tr>
<td>S1 MSB</td>
<td>A</td>
<td>A</td>
<td>Brown</td>
</tr>
<tr>
<td>S2</td>
<td>B</td>
<td>B</td>
<td>White</td>
</tr>
<tr>
<td>S3</td>
<td>C</td>
<td>C</td>
<td>Green</td>
</tr>
<tr>
<td>S4</td>
<td>D</td>
<td>D</td>
<td>Orange</td>
</tr>
<tr>
<td>S5</td>
<td>E</td>
<td>E</td>
<td>Blue</td>
</tr>
<tr>
<td>S6</td>
<td>F</td>
<td>F</td>
<td>Violet</td>
</tr>
<tr>
<td>S7</td>
<td>G</td>
<td>G</td>
<td>Grey</td>
</tr>
<tr>
<td>S8 LSB 8-bit</td>
<td>H</td>
<td>H</td>
<td>Pink</td>
</tr>
<tr>
<td>S9 LSB 8-bit</td>
<td>J</td>
<td>—</td>
<td>Red/Green</td>
</tr>
<tr>
<td>S10 LSB 16-bit</td>
<td>K</td>
<td>—</td>
<td>Red/Yellow</td>
</tr>
<tr>
<td>S11 LSB 16-bit</td>
<td>L</td>
<td>—</td>
<td>Turquoise</td>
</tr>
<tr>
<td>S12 LSB 16-bit</td>
<td>M</td>
<td>—</td>
<td>Yellow</td>
</tr>
<tr>
<td>Direction**</td>
<td>R</td>
<td>—</td>
<td>Red/Blue</td>
</tr>
<tr>
<td>Case Ground</td>
<td>S</td>
<td>—</td>
<td>Drain/Screen</td>
</tr>
<tr>
<td>0V Common</td>
<td>T</td>
<td>J</td>
<td>Black</td>
</tr>
<tr>
<td>Special**</td>
<td>U</td>
<td>—</td>
<td>White/Red</td>
</tr>
<tr>
<td>+Vcc</td>
<td>V</td>
<td>I</td>
<td>Red</td>
</tr>
</tbody>
</table>

NOTES:
* Only available with 8-bit resolution encoders
** Where fitted
*** Direction Control
- Standard is CW increasing when viewed from the shaft end. Direction pin is pulled high normally to 5V internally. Direction pin must be pulled low (GND, Common) to reverse count direction. 0V only should be applied to the direction pin.