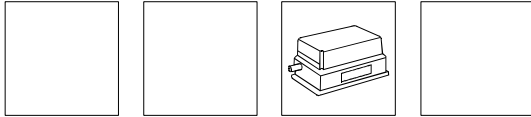


**Absolute-Encoder CE-65-S ASI**



- **Small and Compact**
- **Single-Turn**
- **ASI (Asynchronous Serial Interface)**
- **Standard Interchangeable Mounting Flanges**

**5**

**Electrical Data**

Encoder Capacity .....	max. 13 Bit
Steps / Revolution .....	8192 Steps / Rev
Number of Revolutions .....	1 Revolution
Supply Voltage .....	11-27 VDC
Power Dissipation (No Load) .....	< 4 Watt
Output Code .....	Binary, BCD, Gray
Baud Rate .....	4800 Baud, Other Baud Rates by Request
Data Output .....	RS422 (2 wire) Short Circuit and Reverse Polarity Protected
Communication Format .....	1 Start Bit, 7 Data Bits, 1 Parity Bit, 2 Stop Bits
Data Format .....	ASCII
Standard Communication .....	ASCII, 6 Character + CR
Baud Rate .....	4800 Baud
Other Communication Formats .....	Upon Request
<b>Input Options</b>	
Forward / Reverse .....	Change direction of count
Preset 1 .....	Adjust absolute position to a given set value (i.e. zero set)
Logic Levels .....	"0" < +2 VDC, "1" > + 8 VDC, max. 30 VDC
Pin Configuration .....	Upon Request

**Environmental Data**

Electromagnetic compatibility (EMC) .....	EN 61000-4-2 (IEC-801-2) / EN 61000-4-4 (IEC-801-4)
Operating Temperature .....	0°-60°C (32° to 140° F) / (Optional -20° to +70°C) (-4° to 158° F)
Extended Temperature (Optional) .....	-30° to +80°C (-22° to 176°F)
Relative Humidity .....	98 % (non condensing)
* Protection Class .....	IP 65 (DIN 40 050)
* The protection class of the encoder can be effected by the type of connector used.	

**Mechanical Data**

Maximum Rotational Speed .....	6000 RPM
Maximum Load on Shaft .....	40 N Axial, 60 N Radial (at end of shaft)
Lifetime on Bearings .....	3.9 x 10 <sup>10</sup> Revolutions at:
-Operational Speed .....	3000 RPM
-Load on Shaft.....	20 N Axial, 30 N Radial (at end of shaft)
-Operating Temperature .....	60°C ( 140°F)
Weight .....	0.7 kg (1.5 lb.)
Maximum Angular Acceleration .....	≤ 10 <sup>4</sup> rad/s <sup>2</sup>
Momentum of Inertia.....	2.5 x 10 <sup>-6</sup> kg m <sup>2</sup>
Startup Momentum at 20°C (68°F).....	2 Ncm
Vibration ( 50-2000 Hz Sinusoidal )	
DIN IEC 68-2-6 .....	≤ 100 m/s <sup>2</sup> (10g)
Shock (11ms) DIN IEC 68-2-27 .....	≤ 1000 m/s <sup>2</sup> (100g)
Standard Connector.....	12 pin Contact Connector - Axial
* Other connector types available upon request.	

**Dimensional Drawing**

