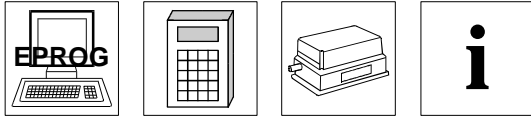


Absolute-Encoder CE-65-S ISI



- **Small and Compact**
- **Single-Turn**
- **ISI (Incremental Serial Interface)**
- **Absolute Incremental Encoder**
- **Programmable Encoder Parameters**
- **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
Programming via RS485	IBM Compatible EPROG Software, PT100 Programming Terminal
Inputs	
* Load Input	Request for Encoder Position
* Preset 1	Adjust absolute position to a given set value (i.e. zero set)
* Preset 2	Adjust absolute position to a given set value (i.e. zero set)
Logic Levels	"0" < +2 VDC, "1" > + 8 VDC, max. 30 VDC
Output Options	Push-Pull (100 mA), RS422
* Load Output	Verification of Load Request
Channel 1	A
Channel 1 neg.	A neg.
Channel 2	B
Channel 2 neg.	B neg.
* Load Frequency	Programmable (2 kHz to 115 kHz)
Pin Configuration	Upon Request
* Programmable Parameters	

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 ¹⁰ 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 ⁴ rad/s ²
Momentum of Inertia.....	2.5 x 10 ⁻⁶ kg m ²
Startup Momentum at 20°C (68°F).....	2 Ncm
Vibration (50-2000 Hz Sinusoidal)	
DIN IEC 68-2-6	≤ 100 m/s ² (10g)
Shock (11ms) DIN IEC 68-2-27	≤ 1000 m/s ² (100g)
Standard Connector.....	12 pin Contact Connector - Axial
* Other connector types available upon request.	

Dimensional Drawing

