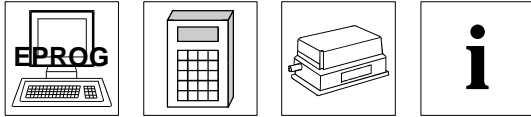


## Absolute-Encoder CE-65-S P



- **Small and Compact**
- **Single-Turn**
- **Parallel Output**
- **Programmable Encoder Parameters**
- **Standard Interchangeable Mounting Flanges**

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### 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
* Output Code (programmable) .....	Binary, BCD, Gray, Shifted Gray, Excess3, Shifted Excess3
Output Options .....	Push-Pull, Open Collector, Open Emitter (Max 35 V)
Maximum Current .....	100 mA / Short Circuit Protected
Input Options	
* Forward / Reverse .....	Change direction of count
* Preset 1 .....	Adjust absolute position to a given set value
* Preset 2 .....	Adjust absolute position to a given set value
* Latch .....	Freezes data lines
* Bus .....	For multiplexing many encoders. Only to be used with Open Collector or Open Emitter Output drivers.
Logic Levels .....	"0" < + 2 VDC, "1" > + 8 VDC, max. 30 VDC
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 50 (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)
Connector .....	PG Axial with 0.5 m cable with 37 pin SUB-D Connector

**Dimensional Drawing**

