

Absolute-Encoder CE-65-S LWL



- **Small and Compact**
- **Single-Turn**
- **LWL Interface**
- **Programmable via Fiber Optic Ring**
- **Standard Interchangeable Mounting Flanges**

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Electrical Data

Encoder Capacity	max. 13 Bit
Steps / Revolution	1 to 8192 Steps / Rev
Number of Revolutions	1 Revolution
Supply Voltage	11-27 VDC
Power Dissipation (No Load)	< 4 Watt
Programmable via LWL-Ring.....	in connection with
	<ul style="list-style-type: none"> • PC Compatible Central-Module • SIMATIC-S5 Compatible Central-Module • VMEbus • SMP-Bus
Transmission Media LWL	Plastic ("APF"- All Plastic Fiber) or Glass ("PCS"- Plastic Coated Silicon)
Maximum Cable Length between two points.....	600 m with Glass Cable, 45 m with plastic cable (Radius ≥ 30 mm)
Output Code	4 Byte Binary / Gray
Baud Rate	2,5 Mbaud in fiber optic ring
Maximum Stations	max. 254
Programmable Parameters via IBS bus	
Count Direction	
Number of Counts per Length	
Preset Value 1,2	
Adjust Absolute Value	

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 cable 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.....	3 x PG 7 radial mount

Dimensional Drawing

