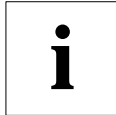


## Absolute-Encoder CE-65-M LWL



- **Small and Compact**
- **Multi - Turn**
- **LWL Interface**
- **Programmable via LWL Ring**
- **Standard Interchangeable Mounting Flanges**

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### Electrical Data

Encoder Capacity .....	max. 25 Bit
Steps / revolution.....	8192 Steps / Rev
Number of Revolutions .....	4096 Revolutions
Supply Voltage .....	11-27 VDC
Power Dissipation (No Load) .....	< 4 Watt
Programmable via LWL-Ring.....	in connection with
	<ul style="list-style-type: none"> <li>• PC Compatible Central-Module</li> <li>• SIMATIC-S5 Compatible Central-Module</li> <li>• VMEbus</li> <li>• SMP-Bus</li> </ul>
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
Baud Rate .....	2,5 Mbaud in fiber optic ring
Maximum Points .....	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 <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.....	3 x PG 7 radial mount

**Dimensional Drawing**

