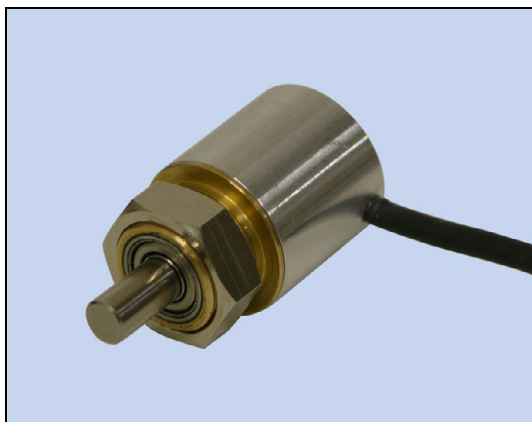


## Absolute-Encoder CMV 22 S/M - SSI

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- **SSI interface**
- **Type with solid shaft**
- **Very small construction, Ø 22 mm**
- **Due to the physical size potentiometers can be replaced**
- **Further interfaces available**
- **Customized adaptations upon request**

**5.A**

## Characteristics

Supply voltage.....	7...26 VDC
Current consumption without load .....	< 50 mA
Total resolution <sup>1)</sup> .....	Multi-Turn: ≤ 20 Bit, Single-Turn: ≤ 12 Bit
Number of steps/revolution <sup>1)</sup> .....	≤ 4.096
Number of revolutions <sup>1)</sup> .....	Multi-Turn: ≤ 256, Single-Turn: 1
SSI .....	Synchronous-Serial-Interface
Clock input .....	Optocoupler
Data output.....	RS-422, 2-wire
Clock frequency .....	80 kHz – 1 MHz
Mono time t <sub>M</sub> .....	16 μs ≤ t <sub>M</sub> ≤ 25 μs, typically 20 μs
Output code <sup>1)</sup> .....	Binary, Gray
SSI output <sup>1)</sup> .....	Position, Speed
Cycle time .....	500 μs
F/R .....	Count direction
Logic level .....	"0" < + 2 VDC, "1" = Supply voltage
Mechanically permissible speed .....	≤ 10.000 min <sup>-1</sup>
Shaft load, at the shaft end .....	≤ 10 N axial, ≤ 5 N radial
Bearing life time .....	≥ 30 * 10 <sup>6</sup> revolutions at
- Speed .....	≤ 3.000 min <sup>-1</sup>
- Operating temperature .....	≤ 25 °C
- Shaft load, at the shaft end.....	≤ 5 N axial, ≤ 0 N radial
Accuracy .....	± 1°

<sup>1)</sup> programmable parameter

## Environmental conditions

Vibration, DIN EN 60068-2-6: 1996.....  $\leq 100 \text{ m/s}^2$ , sine 50-2000 Hz  
Shock, DIN EN 60068-2-27: 1995.....  $\leq 1000 \text{ m/s}^2$ , half-sine 11ms  
EMC  
- Transient emissions, DIN EN 61000-6-3: 2007  
- Immunity to disturbance, DIN EN 61000-6-2: 2006  
Working temperature.....  $0 \text{ }^\circ\text{C} \dots +60 \text{ }^\circ\text{C}$   
Storage temperature.....  $0 \text{ }^\circ\text{C} \dots +85 \text{ }^\circ\text{C}$ , dry  
Relative humidity, DIN EN 60068-3-4: 2002 ..... 95 %, non condensing  
Protection class, DIN EN 60529: 1991 <sup>2)</sup>..... IP 64

<sup>2)</sup> valid with screwed on mating connector and / or screwed together cable gland

## Dimension drawing

