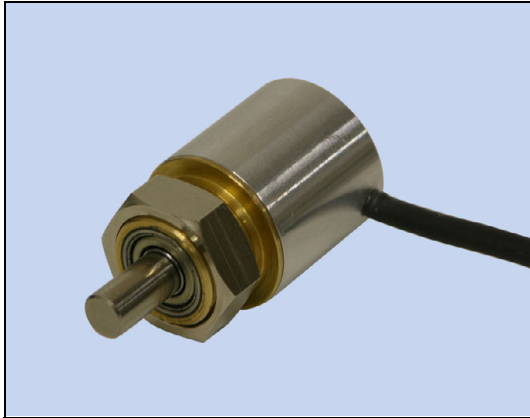
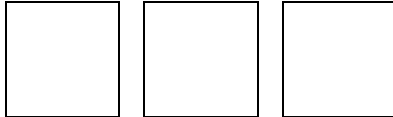


Absolute-Encoder CMV 22 S/M - A

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 D-78647 Trossingen
 Tel. +49 - (0) 74 25 / 228 - 0
 Fax +49 - (0) 74 25 / 228 - 33
<http://www.tr-electronic.de>
 Germany



- Analog 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.....	14...30 VDC
Current consumption without load	< 50 mA
Total resolution ¹⁾	Multi-Turn: ≤ 20 Bit, Single-Turn: ≤ 12 Bit
Number of steps/revolution ¹⁾	≤ 4.096
Number of revolutions ¹⁾	Multi-Turn: ≤ 256, Single-Turn: 1
A.....	15 Bit - Analog interface
Voltage output.....	0 V...+10 V
- Load resistance	≥ 15 kΩ
Cable length, dependent on electric shielding	
- Voltage output	≤ 10 m
Cycle time	500 μs
F/R ¹⁾	Count direction
Logic level	"0" < + 2 VDC, "1" = Supply voltage
Mechanically permissible speed	≤ 10.000 min ⁻¹
Shaft load, at the shaft end	≤ 10 N axial, ≤ 5 N radial
Bearing life time	≥ 30 * 10 ⁶ revolutions at
- Speed	≤ 3.000 min ⁻¹
- Operating temperature	≤ 25 °C
- Shaft load, at the shaft end.....	≤ 5 N axial, ≤ 0 N radial
Accuracy	± 1°

¹⁾ 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 ²⁾..... IP 64

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

Dimension drawing

