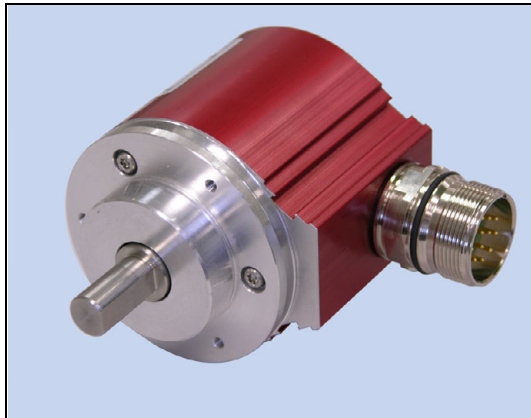
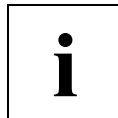
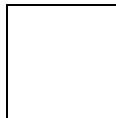
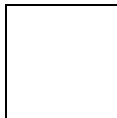


Absolute-Encoder CMV 58 S/M - SSI

Eglshalde 6
 D-78647 Trossingen
 Tel. +49 - (0) 74 25 / 228 - 0
 Fax +49 - (0) 74 25 / 228 - 33
 http://www.tr-electronic.de
 Germany



- SSI interface
- Type with solid shaft
- Very compact and small construction
- Rugged standard solution
- Economical alternative to the CE series
- Short lead times
- Further interfaces available

5.A

Characteristics

| | |
|--|--|
| Supply voltage..... | 11...27 VDC |
| Current consumption without load | < 150 mA |
| Total resolution ¹⁾ | Multi-Turn: ≤ 23 Bit, Single-Turn: ≤ 11 Bit |
| Number of steps/revolution ¹⁾ | ≤ 2.048 |
| Number of revolutions ¹⁾ | Multi-Turn: ≤ 4.096, 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 _M | 16 μs ≤ t _M ≤ 25 μs, typically 20 μs |
| Output code ¹⁾ | Binary, Gray |
| Number of data bits ¹⁾ | 8...32 |
| Output format | Tree format |
| F/R ¹⁾ | Count direction |
| Preset ¹⁾ | electronic adjustment |
| Logic level | "0" < + 2 VDC, "1" = Supply voltage |
| Mechanically permissible speed | ≤ 12.000 min ⁻¹ |
| Shaft load, at the shaft end | ≤ 10 N axial, ≤ 20 N radial |
| Bearing life time | ≥ 3.9 * 10 ¹⁰ revolutions at |
| - Speed | ≤ 6.000 min ⁻¹ |
| - Operating temperature | ≤ 60 °C |
| - Shaft load, at the shaft end..... | ≤ 5 N axial, ≤ 10 N radial |
| Permissible angular acceleration | ≤ 10 ⁴ rad/s ² |
| Moment of inertia | typically 1.3 * 10 ⁻⁶ kg m ² |
| Start-up torque at 20°C | typically 2 Ncm |
| Mass..... | typically 0.3 kg |
| Accuracy | ± 1° |

¹⁾ programmable parameter

Environmental conditions

| | |
|--|--|
| Vibration, DIN EN 60068-2-6: 1996..... | ≤ 100 m/s ² , sine 50-2000 Hz |
| Shock, DIN EN 60068-2-27: 1995..... | ≤ 1000 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 °C...+60 °C |
| Storage temperature..... | -30 °C...+85 °C, dry |
| Relative humidity, DIN EN 60068-3-4: 2002 | 98 %, non condensing |
| Protection class, DIN EN 60529: 1991 ²⁾ | IP 65 |

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

Dimension drawing

