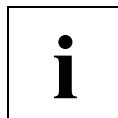
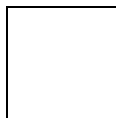
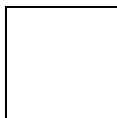


Absolute-Encoder CMS 58 S/M - SSI

Eglishalde 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 blind 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	Own mass
Bearing life time	≥ 3.9 * 10 ¹⁰ revolutions at
- Speed	≤ 6.000 min ⁻¹
- Operating temperature	≤ 60 °C
Shaft diameter in mm	12H7
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

