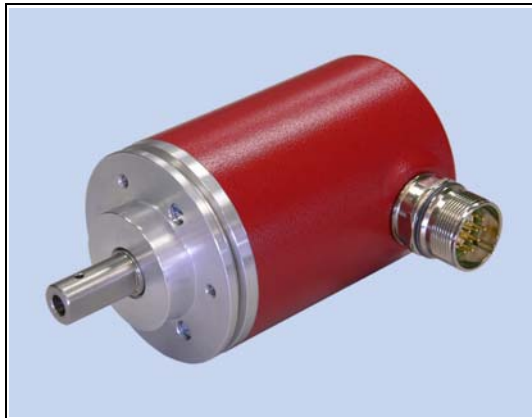
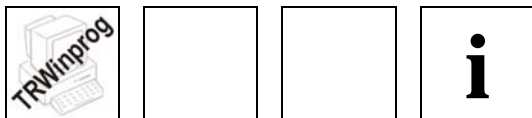


## Absolute-Encoder CEV 65 M - A

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- Analog / SSI - interface
- Type with solid shaft
- Alternative with current- or voltage output, delivery setting
- Analog value can be adjusted as speed- or position value
- Modular product line
- Extensive parameter setting possibilities
- Special parameters upon request
- Modular construction for mechanical customizations

5.A

## Characteristics

Supply voltage.....	22...27 VDC
Current consumption without load .....	< 180 mA
Total resolution <sup>1)</sup> .....	≤ 28 Bit
Number of steps/revolution <sup>1)</sup> .....	≤ 8.192
Number of revolutions <sup>1)</sup> .....	≤ 32.768
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
Number of data bits <sup>1)</sup> .....	8...32
Output format .....	Tree format
A.....	Analog interface
Analog voltage / Analog current.....	defined by factory setting
Resolution .....	14 bit D/A converter
Voltage output <sup>1)</sup> .....	-10 VDC...+10 VDC
- Load resistance .....	≥ 500 Ω
Current output <sup>1)</sup> .....	0...20 mA
- Load resistance .....	≤ 500 Ω
Preset 1 and 2.....	electronic adjustment
Latch .....	Intermediate storage of the analog data
Logic level .....	"0" < + 2 VDC, "1" = Supply voltage
Mechanically permissible speed .....	≤ 6.000 min <sup>-1</sup>
Shaft load, at the shaft end .....	≤ 40 N axial, ≤ 60 N radial
Bearing life time .....	≥ 3.9 * 10 <sup>10</sup> revolutions at
- Speed .....	≤ 3.000 min <sup>-1</sup>
- Operating temperature .....	≤ 60 °C
- Shaft load, at the shaft end.....	≤ 20 N axial, ≤ 30 N radial
Permissible angular acceleration .....	≤ 10 <sup>4</sup> rad/s <sup>2</sup>
Moment of inertia .....	typically 2.5 * 10 <sup>-6</sup> kg m <sup>2</sup>
Start-up torque at 20°C .....	typically 2 Ncm
Mass.....	typically 0.7 kg

<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  
- Discharge of static electricity, DIN EN 61000-4-2: 2001  
- Burst, DIN EN 61000-4-4: 2004  
- Immunity to disturbance, DIN EN 61000-6-2: 2001  
Working temperature.....  $0 \text{ }^\circ\text{C} \dots +60 \text{ }^\circ\text{C}$ , optional  $-20 \text{ }^\circ\text{C} \dots +70 \text{ }^\circ\text{C}$   
Storage temperature.....  $-30 \text{ }^\circ\text{C} \dots +80 \text{ }^\circ\text{C}$ , dry  
Relative humidity, DIN EN 60068-3-4: 2002 ..... 98 %, non condensing  
Protection class, DIN EN 60529: 1991 <sup>2)</sup>..... IP 65

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

### Dimension drawing

