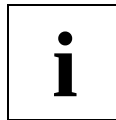
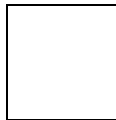


Absolute-Encoder CEV 65 M - A



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Germany



- 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 ¹⁾	≤ 28 Bit
Number of steps/revolution ¹⁾	≤ 8.192
Number of revolutions ¹⁾	≤ 32.768
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
A.....	Analog interface
Analog voltage / Analog current.....	defined by factory setting
Resolution	14 bit D/A converter
Voltage output ¹⁾	-10 VDC...+10 VDC
- Load resistance	≥ 500 Ω
Current output ¹⁾	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 ⁻¹
Shaft load, at the shaft end	≤ 40 N axial, ≤ 60 N radial
Bearing life time	≥ 3.9 * 10 ¹⁰ revolutions at
- Speed	≤ 3.000 min ⁻¹
- Operating temperature	≤ 60 °C
- Shaft load, at the shaft end.....	≤ 20 N axial, ≤ 30 N radial
Permissible angular acceleration	≤ 10 ⁴ rad/s ²
Moment of inertia	typically 2.5 * 10 ⁻⁶ kg m ²
Start-up torque at 20°C	typically 2 Ncm
Mass.....	typically 0.7 kg

¹⁾ programmable parameter

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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..... $0^\circ\text{C} \dots +60^\circ\text{C}$, optional $-20^\circ\text{C} \dots +70^\circ\text{C}$

Storage temperature..... $-30^\circ\text{C} \dots +80^\circ\text{C}$, 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

