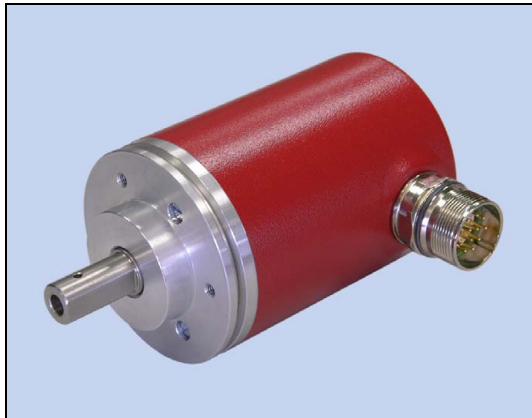
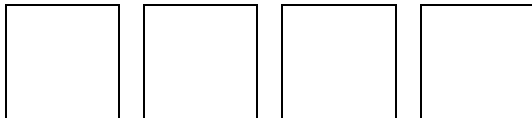


## Absolute-Encoder CEV 65 S/M - ASI

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- **ASI interface**
- **Type with solid shaft**
- **Modular product line**
- **Parameter setting possibilities only at the factory**
- **Special parameters upon request**
- **Further interfaces available**
- **Modular construction for mechanical customizations**

**5.A**

## Characteristics

Supply voltage.....	11...27 VDC
Current consumption without load .....	< 350 mA
Total resolution <sup>1)</sup> .....	Multi-Turn: ≤ 25 Bit, Single-Turn: ≤ 13 Bit
Number of steps/revolution <sup>1)</sup> .....	≤ 8.192
Number of revolutions <sup>1)</sup> .....	Multi-Turn: ≤ 4.096, Single-Turn: 1
Output capacity .....	24 Bit
ASI .....	Asynchronous-Serial-Interface
Data transmission .....	RS-422, 2-wire
Sign format.....	1 Start bit, 7 Data bits, 1 Parity bit (even), 2 Stop bits
Data format .....	ASCII
Standard telegram format .....	other, upon request
- 7 signs .....	6 Position signs + CR (0x0D)
- 8 signs .....	6 Position signs + CRC + CR (0x0D)
Idle time.....	> 1 sign
Baud rate.....	4800
Output code <sup>1)</sup> .....	Binary, BCD
F/R <sup>1)</sup> .....	Count direction
Preset <sup>1)</sup> .....	electronic adjustment
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, only at the factory

## 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

