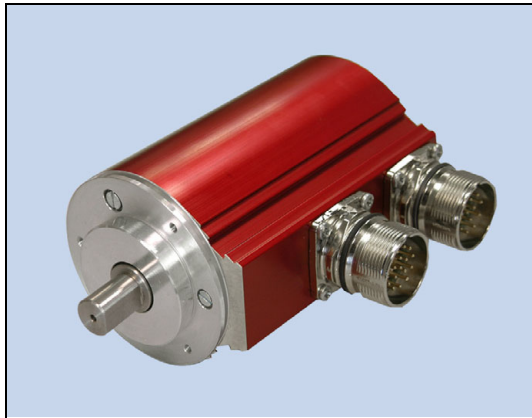
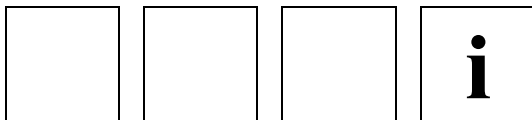


Absolute-Encoder CDV 58 S/M

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- **Interface variants**
- **Type with solid shaft**
- **Modular product line**
- **Redundant scanning system**
- **Further interface variants upon request**
- **Modular construction for mechanical customizations**

5.A

Characteristics

Supply voltage.....	2 * 11...27 VDC
Current consumption without load	< 700 mA
Total resolution ¹⁾	Multi-Turn: ≤ 25 Bit, Single-Turn: ≤ 13 Bit
Number of steps/revolution ¹⁾	≤ 8.192
Number of revolutions, standard ¹⁾	Multi-Turn: ≤ 4.096, Single-Turn: 1
Number of revolutions, extended ¹⁾	Multi-Turn: ≤ 256.000, Single-Turn: 1
Interface variants	
Measuring system 1	Measuring system 2, possible variants
- SSI.....	SSI, Incremental + programmable
- Incremental.....	Incremental + programmable
- Incremental, programmable.....	Incremental, programmable
- Deviation of the actual value, system 1 to system 2	max. ± 1°
Mechanically permissible speed	≤ 6.000 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 5 * 10 ⁻⁶ kg m ²
Start-up torque at 20°C	typically 4 Ncm
Mass.....	0.6 kg...1 kg

¹⁾ 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 ²⁾..... IP 65

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

Dimension drawing

For your project please request article number-related dimensional drawings !

