Absolute-Encoder CEV 65 S/M - PN

TR electronic

Fieldbus   i

- **PROFINET IO interface**
- **Type with solid shaft**
- **Modular product line**
- **Extensive parameter setting possibilities**
- **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 [1]	Multi-Turn: ≤ 25 Bit, Single-Turn: ≤ 13 Bit
Number of steps/revolution [1]	≤ 8.192
Number of revolutions [1]	Multi-Turn: ≤ 4.096, Single-Turn: 1
Profinet IO – Device	IEC 61158, IEC 61784-1
- Physical Layer	PROFINET 100Base-TX, Fast Ethernet, ISO/IEC 8802-3
- Output code	Binary
- Cycle time [1]	≥ 1 ms (IRT / RT)
- Transmission rate	10 Mbit/s, 100 Mbit/s
- Transmission	CAT-5 cable, shielded (STP), ISO/IEC 11801
- Addressing [1]	Per Name (name allocation about engineering tool). Assignment Name --> MAC during system boot
- Real-Time-Classes [1]	RT Class 1 Frames (RT), RT Class 3 Frames (IRT)
- Parameter [1]	Switch-over count direction, Scaling function, Preset adjustment
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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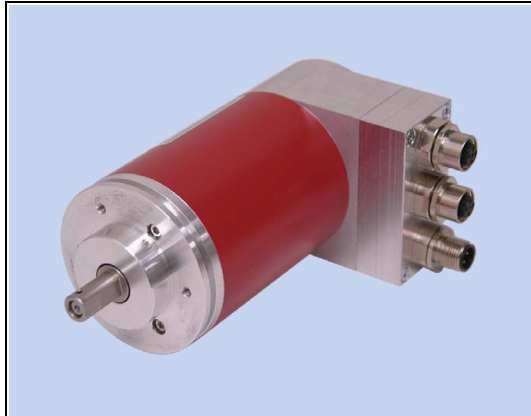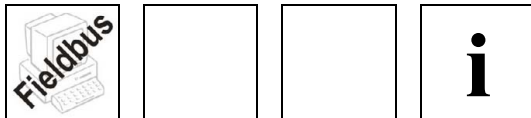
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Environmental conditions

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

   - 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 °C…+60 °C, optional -20 °C…+70 °C

Storage temperature.. -30 °C…+80 °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

3xM4, 6tief
TK⌀48±0.2, (3x120°)

3xM4, 6deep
TK⌀48±0.2, (3x120°)

~125.7

0.5x45°

⌀10 h7

⌀65

⌀59

⌀36 f7

⌀14

19.25

19.5

10

3

6

56

~21

9

16.5

33

43

65

Sichtfenster
für 4 LED

window
for 4 LED

Anzugsdrehmoment 0.2Nm
starting troque 0.2Nm

SW 17

4pol. M12-Stecker (Versorgung)
4pin. M12-male-connector (supply voltage)

2x4pol. M12-Stecker, d-codiert (Buchse)
2x4pol. M12-connector, d-coded (female)