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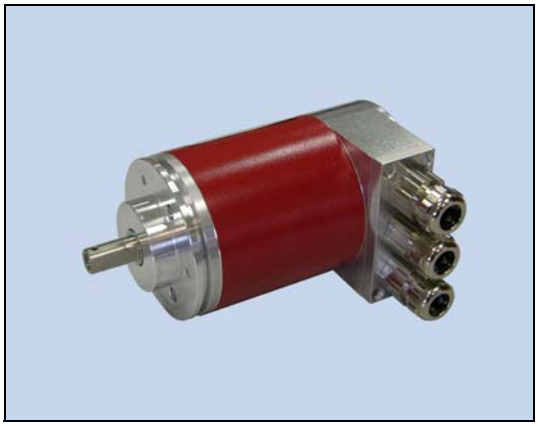
Absolute-Encoder CEV65M - PB PNO



- **PROFIBUS - DP fieldbus interface compliant EN 50170 and EN 50254**
- **Modular product line**
- **Different flange and shaft versions available**
- **Short lead time**
- **Extensive parametrize possible**
- **Customisations upon request**

Characteristics

Total resolution [1)] ..... ≤ 25 Bit
Steps per revolution [1)] ..... ≤ 8.192
Number of revolutions Standard [1)] ..... ≤ 4.096
Number of revolutions software solution [1)] ..... ≤ 256.000

Supply voltage ..... 11 … 27 VDC
Power consumption without load ..... < 4 Watt

Data interface Profibus-DP
Data protocol [1)] ..... EN 50170, EN 50254
PNO Class 1, PNO Class 2,
TR-mode position
TR-mode position and speed
Output code [1)] ..... Binary, gray, shifted gray
Address range with DIP-switch adjustable ..... 3 … 99
Baud rate with DIP-switch adjustable ..... 9,6 kbit/s … 12 Mbit/s

Input logic level „0“ < 2 VDC, „1“ ≙ Supply voltage
Count direction V/R [1)]
Preset adjustment preset 1 and 2 [1)]

Mechanically permitted speed ..... ≤ 6.000 min^{-1}
Shaft loading ..... ≤ 40 N axial, 60 N radial
Bearing life time at ≤ 3.000 min^{-1} and ≤ 60 °C ..... ≥ $3{,}9 * 10^{10}$ revolutions
and shaft loading ≤ 20 N axial, 30 N radial
Angular acceleration ..... ≤ 10^4 rad/s²
Moment of inertia ..... typical $2{,}5 * 10^{-6}$ kg∗m ²
Startup torque at 20°C or 68°F ..... typical 2 Ncm
Weight ..... typical 0,7 kg

Connection ..... screw terminal, 3x cable gland radial

[1)] Programmable via bus

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Environmental conditions

Vibration to DIN EN 60068-2-6:1996 ..... ≤ 100 m/s² sine 50-2000 Hz
Shock to DIN EN 60068-2-27:1995 ..... ≤ 1000 m/s² 11ms

EMC

Unloading of static electricity to DIN EN 61000-4-2:2001
Burst to DIN EN 61000-4-4:2004
Interference immunity to DIN EN 61000-6-2:2001

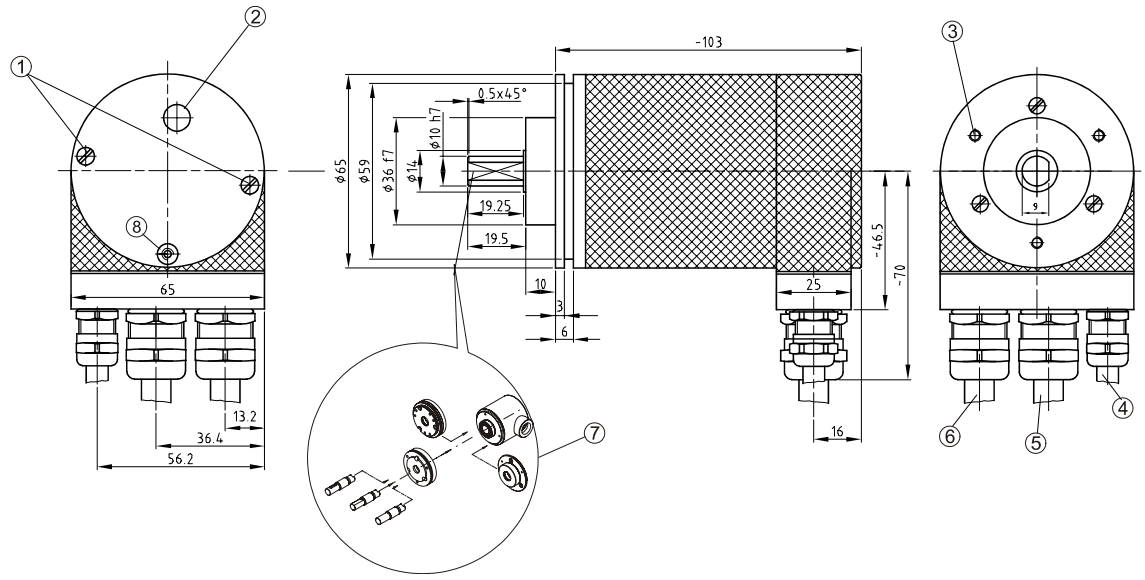
Operating temperature ..... 0 °C … 70 °C optional -40 °C …+85 °C
Storage temperature range ..... -40 °C … +85 °C dry

Relative humidity to DIN EN 60068-3-4:2002 ..... 98 % non condensing

Protection class [1] ..... IP 65 compliant EN 60529:1991

[1] This is valid, if the plug connectors are connected correctly and/or the cable gland is screwed together correctly

Dimension drawing



1 Torque 0,2 Nm
2 Windows for LED
3 Screw thread see product drawing
4 1x cable gland SW 14 power supply
5 1x cable gland SW 20 data input
6 1x cable gland SW 20 data output
7 Different flanges and shaft versions available
8 Shielded