

# Absolute-Encoder CEV582 - PROFIBUS



Order No.: K-CEV58\_2-PB-1  
20.06.2026  
010102058202020201

## Advantages

- Bus cover axial or radial
- M12 plug-in technology
- Option: +SSI or +INC
- PNO Encoder Profile, CL 1/2
- Preset "on the fly"

## General Data

|                                |                          |
|--------------------------------|--------------------------|
| Nominal voltage                |                          |
| - Specific value               | 24 VDC                   |
| - Limit values, min/max        | 10/30 VDC                |
| Nominal current, typically     |                          |
| - Specific value               | 60 mA                    |
| - Condition                    | unloaded                 |
| Supply                         |                          |
| - In case of UL / CSA approval | according to NEC Class 2 |
| Device design                  |                          |
| - Type                         | Single-/Multi-Turn       |
| Total resolution               | <= 33 Bit                |
| Number of steps per revolution | <= 32768                 |
| Number of revolutions          | <= 256000                |
| Output capacity                | <= 25 Bit                |

Änderungen vorbehalten.

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## General Data

|                                |                           |
|--------------------------------|---------------------------|
| PROFIBUS - Interface           |                           |
| - PROFIBUS-DP V0               | IEC 61158, IEC 61784      |
| - PNO Encoder-Profile          | Class 1 and 2             |
| SSI - Interface                |                           |
| - Equipment                    | Optional interface        |
| - SSI-Clock input              | Optocoupler               |
| - SSI-Data output              | RS-422, 2-wire            |
| - SSI-Clock frequency          | 80... 1000 kHz            |
| - SSI-Mono time, typically     | 9... 41 µs                |
| - Output code                  | Binär, Gray, Gray clipped |
| - Number of data bits          | 1... 64                   |
| - Type of parametrization      | programmable              |
| Incremental - Interface        |                           |
| - Equipment                    | Optional interface        |
| - Signal form                  | Square wave               |
| - Incremental signals, square  | K1± K2± K0±               |
| - Impulses, square wave        | 1...36000                 |
| - Output driver, TTL           | RS-422, 5 VDC             |
| - Output driver, HTL           | Push-Pull, Supply Voltage |
| - Type of parametrization      | programmable              |
| Transmission rate              |                           |
| - Specific value               | 9.6... 12000 kbit/s       |
| Cycle time                     | 250 µs                    |
| Preset writing cycles          | >= 1 000 000              |
| Parameter/Function, changeable | Resolution                |
|                                | Output code               |
|                                | Limit switch              |
|                                | Adjustment - Parameter    |
|                                | Counting direction        |
|                                | Gear function             |
|                                | Velocity parameter        |
| Type of parametrization        | programmable              |
| Programming - Tool             | Fieldbus-Device           |
| Maximum Speed, mechanically    | <= 12000 1/min            |
| Shaft load, axial/radial       | <= 50 N, <= 100 N         |
| Bearing life time              | >= 3.9E+10 revolutions    |

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|                               |                               |
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| Bearing life time - Parameter |                               |
| - Speed                       | 6000 1/min                    |
| - Operating temperature       | 60 °C                         |
| - Shaft load, axial/radial    | = 60 %                        |
| Point of origin, shaft load   | Mounting flange + 10 mm       |
| Shaft type                    |                               |
| - Shaft diameter [mm]         | 6                             |
| - Shaft diameter [mm]         | 8                             |
| - Shaft diameter [mm]         | 10                            |
| - Shaft diameter [mm]         | 12                            |
| - Shaft diameter ["]          | 1/4                           |
| - Shaft diameter ["]          | 3/8                           |
| - Shaft diameter ["]          | 1/2                           |
| Angular acceleration          | $\leq 1.0E+5 \text{ rad/s}^2$ |
| Moment of inertia, typically  | $1.3E-6 \text{ kg m}^2$       |
| Start-up torque, 20 °C        | 2 Ncm                         |
| Mass, typically               | 0.35 kg                       |

## Environmental conditions

|                          |                           |
|--------------------------|---------------------------|
| Vibration                | DIN EN 60068-2-6          |
| - Specific value         | $\leq 100 \text{ m/s}^2$  |
| - Sine                   | 50...2000 Hz              |
| Shock                    | DIN EN 60068-2-27         |
| - Specific value         | $\leq 1000 \text{ m/s}^2$ |
| - Half sine              | 6 ms                      |
| Immunity to disturbance  | DIN EN 61000-6-2          |
| Transient emissions      | DIN EN 61000-6-3          |
| Working temperature      |                           |
| - Standard               | -20...+75 °C              |
| - Optional               | -40...+85 °C;             |
| Storage temperature, dry | -30...+85 °C              |
| Relative humidity        | 98 %, non condensing      |
| Protection class         |                           |
| - Standard               | IP65                      |

Änderungen vorbehalten.

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### Environmental conditions

- Optional extended to IP67

|                           |                       |
|---------------------------|-----------------------|
| Resistance                |                       |
| - against salt (seawater) | DIN EN IEC 60068-2-52 |
| - Test method             | Test method 1         |
| - excluded are            | Attachment parts      |

Änderungen vorbehalten.

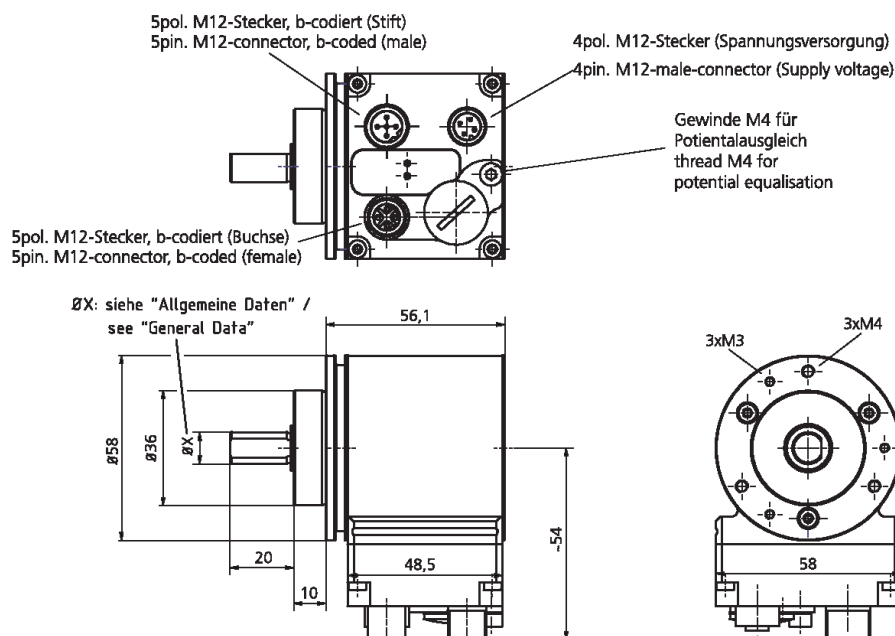
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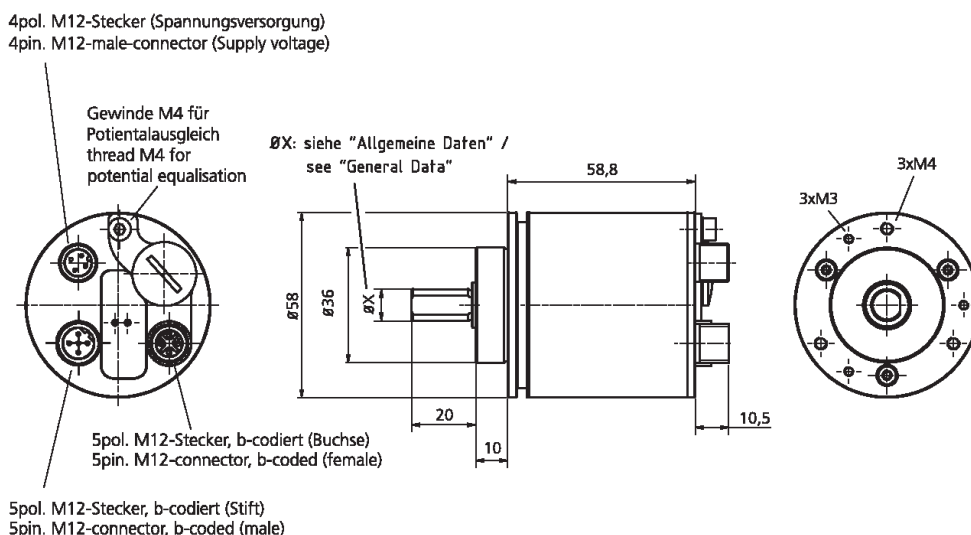
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## Radial



## Axial



Fehlende Abmaße bzw. abweichendes Design, siehe Art.-Nr. bezogene Zeichnung /  
Missing dimensions or different design, see drawing related to the order number

Änderungen vorbehalten.

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