Absolute rotary Encoder

# CEV65M*4096/4096 PB (ALT.:110-01460)

**Order No.:CEV65M-01460**
30.6.2025 / 010102006502020201

## Technical data

| | |
|---|---|
| NO.OF STEPS/REV | 4.096,000 |
| NO. OF REVOLUTIONS | 4.096,000 |
| PARAMETERIZABLE | PROG. |
| INTERFACE | PROFIBUS DP |
| CODE | PROGRAMABLE |
| SUPPLY VOLTAGE | 11-27V |
| OUTPUT LEVEL | RS485 |
| PROTECTION Class | IP65 |
| OPERATING TEMPERATURE | -20+70°C |
| FLANGE TYPE | ZB36 |
| SHAFT TYPE | 10FL/19,5 |
| CONNECTION TYPE | 3XPG9 |
| CONNECTOR-POSITION | PG RADIAL |
| PINOUT NO. | TR-ECE-TI-GB-0017 |
| MATING PLUG | NO |
| OPTIONS ENC | 12MBAUD |
| OPTIONS ENC | PNO-PROFILE CLASS.2 |
| DRAWING NO. | 04-CEV65M-M1005 |
| VERSIONNO | 652 |
| DOCUMENTATION NO | DOKUMENTE |
| AL: | N |
| ECCN: | N |
| AL: | N |
| ECCN: | N |

| | |
|---|---|
| **GL** | Wellenausführung glatt / shaft type cylindrical |
| **FL** | Wellenausführung mit Fläche / shaft type with flat surface |
| **N** | Wellenausführung mit Nut / shaft type with slot |
| **Hohlw** | Hohlwelle / hollow shaft |
| **Klemme** | mit Klemmring / with clamping ring |
| **Grundw** | Grundwelle / fundamental shaft |
| **SLG** | Seillängengeber / cable retractor |
| **ZB** | Zentrierbund / centre ring |
| **Tachofl** | Tachoflansch / tachometer flange |
| **DAG** | DAG-Schutzgehäuse / DAG protective housing |
| **TK** | Teilkreis / pitch circle |

**Subject to change.**

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## Connector pin assignment for Profibus-DP Encoder with PNO-Profile Class 2 Design with two-pole screw terminals and Preset

***General note:***

If the encoder is the last station in the profibus line, the DIP switches *S3* and *S4* for the profibus terminator (switching-on of the terminal resistance) must be switched on. Otherwise they must be switched off.
The profibus also works when the encoder is removed. Is the encoder the last station in the profibus line, the reference potential of the terminator resistances is missing!
In order to enable a separate wiring of incoming and outgoing signals the profibus terminals and the terminals for the supply voltage have two connection possibilities.
TR-Electronic recommends for the operation to use only bus cables certified by the Profibus User Organization (PNO).
With the BCD address switches *S1 ($10^1$)* and *S2 ($10^0$)* the station address for the profibus is set from 3 to 99.

### *Explanation of terms:*

| | |
|---|---|
| US: | Supply voltage, 11-27 V DC |
| US-input: | 1-level > +8V, 0-level < +2V, up to ±35V, 5 kOhm |

### *X1 - screw clamp 2-pin*

Pin 1 Profibus DataA
Pin 2 Profibus DataB

### *X2 - screw clamp 2-pin*

Pin 1 Profibus DataB
Pin 2 Profibus DataA

### *X3 - screw clamp 2-pin*

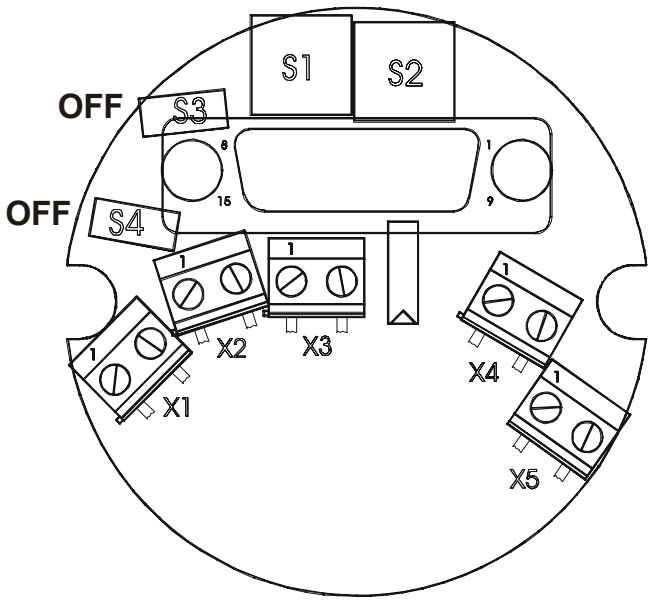
Pin 1 US-input for Preset 1
Pin 2 US-input for Preset 2

### *X4 - screw clamp 2-pin*

Pin 1 US, supply voltage
Pin 2 GND, supply voltage 0 V

### *X5 - screw clamp 2-pin*

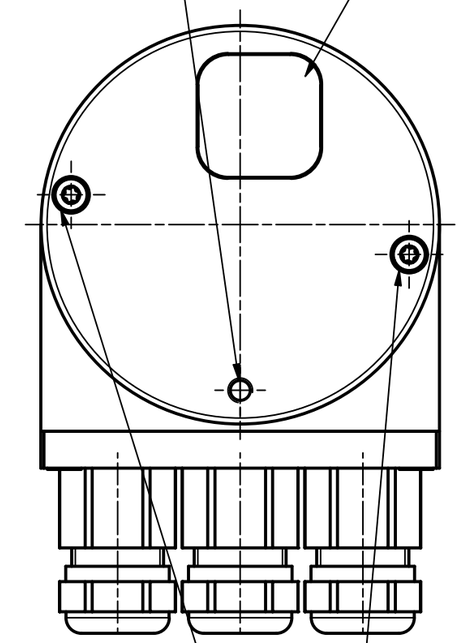
Pin 1 GND, supply voltage 0 V
Pin 2 US, supply voltage

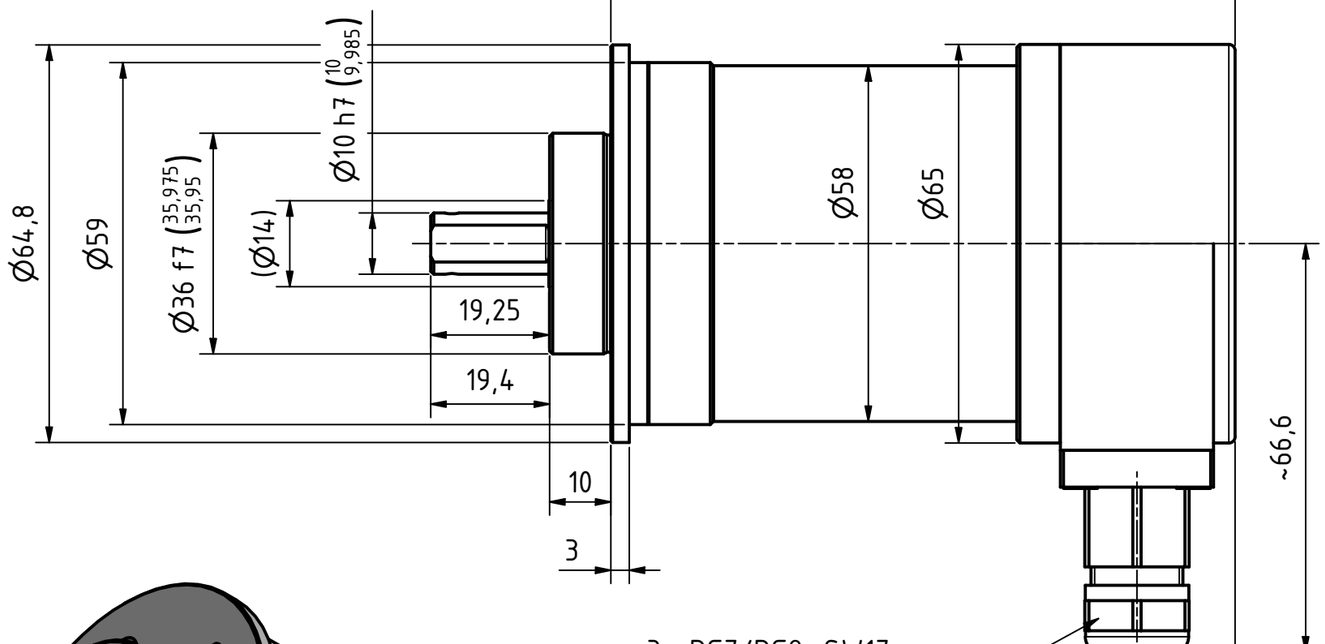


**Alle nicht tolerierten Maße sind Richtwerte.** [All non-tolerated dimensions are guide values.]
Technische Änderungen grundsätzlich vorbehalten. [We reserve the right to make technical changes.]

Schirmleiter
[shielding]

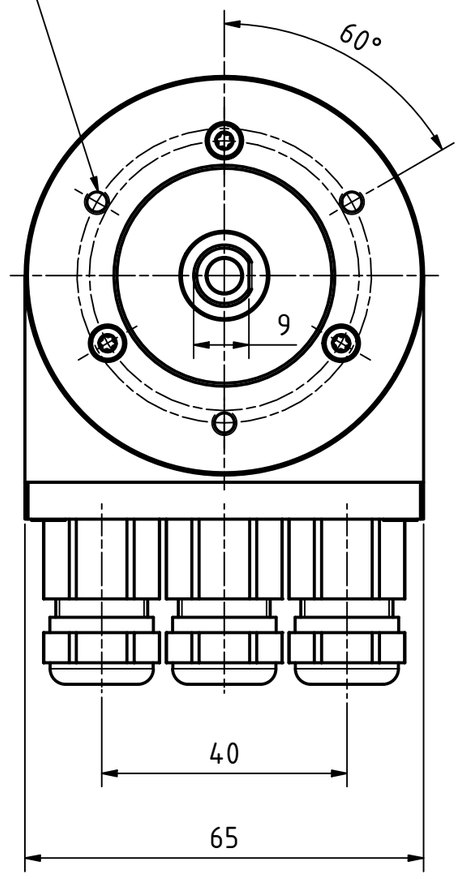
Sichtfenster für 2 LED
[window for 2 LED]





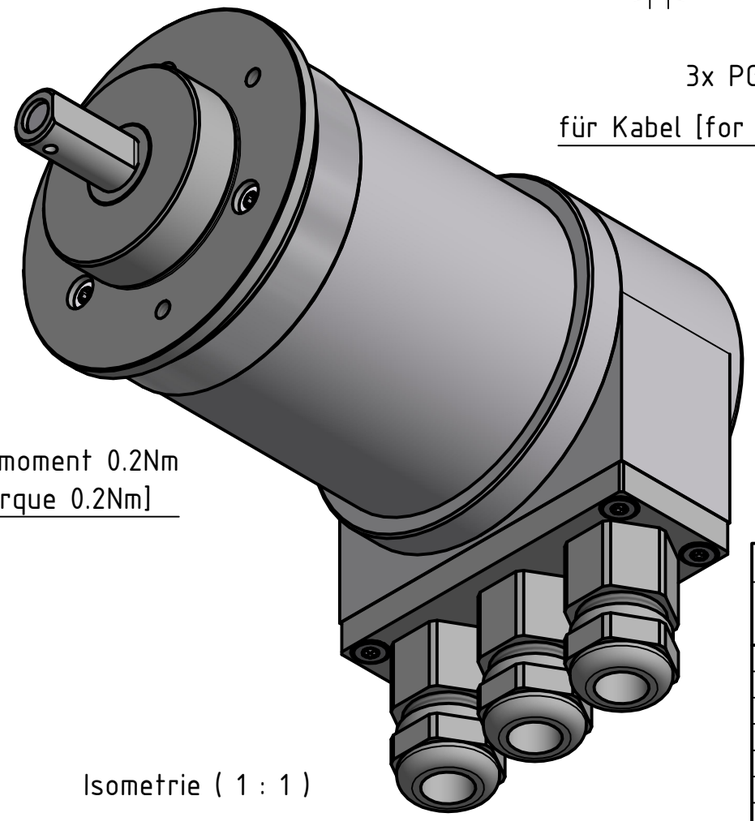

3x M4 ↧6

TK Ø48± 0.1 (3x120°)




3x PG7/PG9, SW17,
für Kabel [for cable] Ø5.5-9

TORX
Anzugsdrehmoment 0.2Nm
[starting torque 0.2Nm]



Isometrie ( 1 : 1 )

Biegeradius Kabel 15xØ bezogen auf Standardkabel Unitronic FD-CP
[bending cable radius 15xØ for cabletype Unitronic FD-CP]

Für Schirmleiter:
Schraube M4x8 und Kabelschuh mit Zahnscheibe nach DIN6797-A 4.3-FSt unterlegt.

[for shielding:
use metric screw M4x8 with forked terminal.
For good contact to housing use a studded disc DIN6797-A 4.3-Fst.]

| | | | | | | |
|---|---|---|---|---|---|---|
| Tolerierung [Tolerancing] ISO 8015 | | | alle Maße in mm [all dimensions in mm] | | | Maßstab [Scale] 1 : 1 — DIN A3 |
| E-Mail: info@tr-electronic.de<br>Support: http://tr-e.info/01 | | | CAD: STEP | | | Artikel-Nr. und Steckerbelegung: siehe Datenblatt [Article-No. and pin assignment: see data sheet] |
| | | | | | Datum / Name | Bezeichnung [Designation]: CEV-65-M, 36er Zentr. |
| | | | | Erst. | 06.02.2024 / FLAIG | |
| | | | | Bearb. | 25.02.2025 / FLAIG | |
| | | | | Gepr. | 25.02.2025 / MITCHELL | |
| | | | | Norm | | |
| 1 | siehe Änderungshinweise | 25.02.2025 | FLA | TR Electronic GmbH, Eglishalde 6, D-78647 Trossingen, Tel. +49 7425 228-0, www.tr-electronic.de | | Zeichnung-Nr. [Drawing-No.]: 04-CEV65M-M1005 |
| Zust. | Änderungen | Datum | Name | | | Dok.Art. IDW / Teil-Dok. 000 / Dok.Vs. 01 / 1/1 Bl. |