

MANUFACTURER DOCUMENT PACKAGE

Manufacturer's Manual

Reference package for procurement and maintenance review

TR ELECTRONIC

CEV65M-01460

ABSOLUTE MULTITURN ENCODER

Used with the applicable SIMATIC industrial automation configuration.

REFERENCE PACKAGE

OFFICIAL DOCUMENT

Selected official manufacturer pages follow this cover.

Source: TR Electronic official manufacturer document: CEV65M-01460.pdf

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 $\pm 35V$, 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

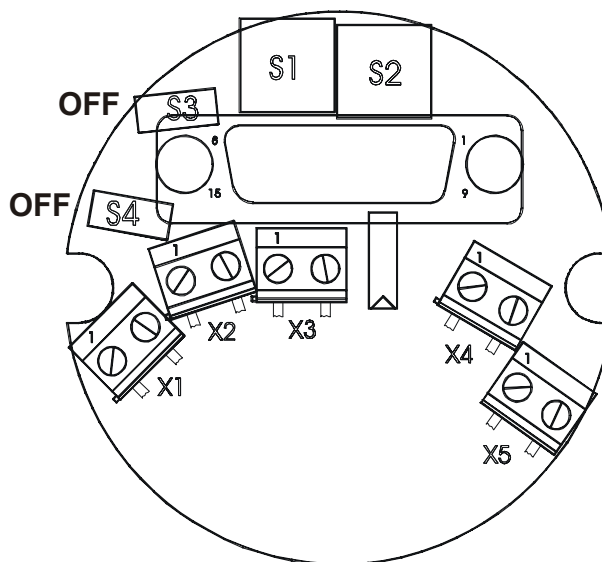
Pin 1	US-input for Preset 1
Pin 2	US-input for Preset 2

X4 - screw clamp 2-pin

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

X5 - screw clamp 2-pin

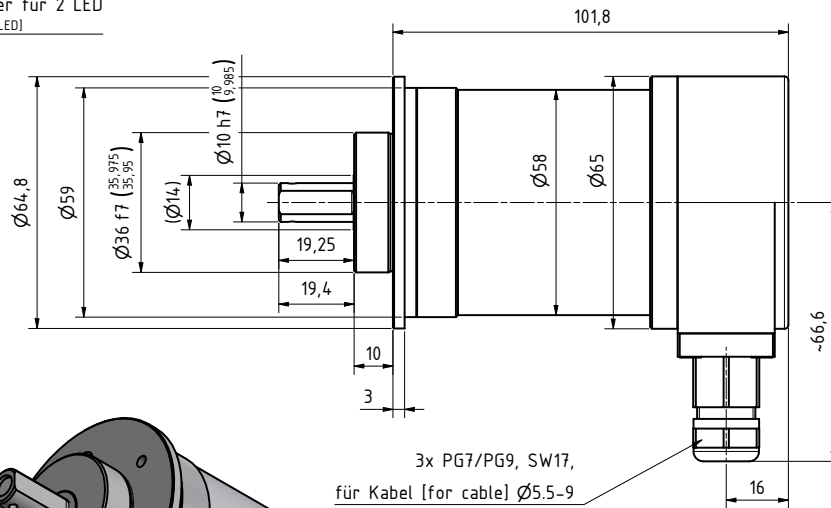
Pin 1	GND, supply voltage 0 V
Pin 2	US, supply voltage



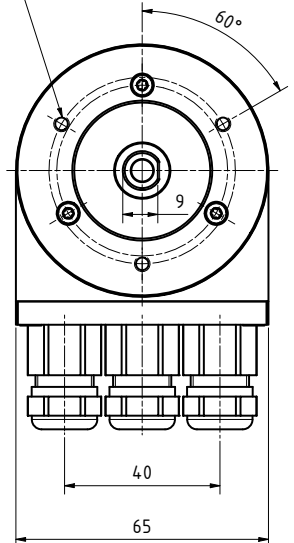
Alle nicht tolerierten Maße sind Richtwerte. [All non-tolerated dimensions are guide values.]
Technische Änderungen grundsätzlich vorbehalten. [We reserve the right to make technical changes.]

Schirmleiter
[shielding]

Sichtfenster für 2 LED
[window for 2 LED]

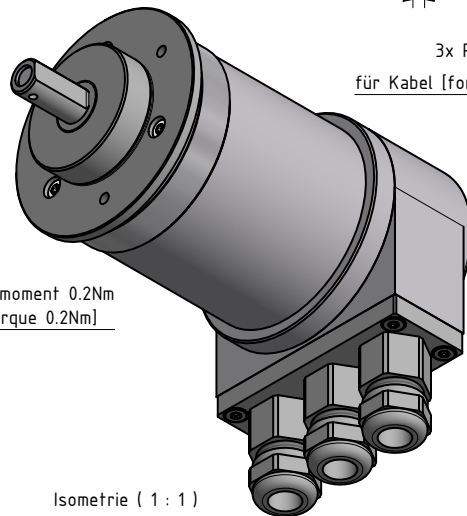


3x M4 $\nabla 6$
TK $\varnothing 48 \pm 0,1$ (3x120°)



3x PG7/PG9, SW17,
für Kabel [for cable] $\varnothing 5,5-9$

TORX
Anzugsdrehmoment 0.2Nm
[starting torque 0.2Nm]



Isometrie (1 : 1)

Biegeradius Kabel 15x $\varnothing$ bezogen auf Standardkabel
Unitronic FD-CP
[bending cable radius 15x $\varnothing$ 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 Support: http://tr-e.info/01		CAD: STEP		Artikel-Nr. und Steckerbelegung: siehe Datenblatt [Article-No. and pin assignment: see data sheet]	
		Erst: 06.02.2024 FLAIG		Bezeichnung (Designation):	
		Bearb: 25.02.2025 FLAIG		CEV-65-M, 36er Zentr.	
		Gepr: 25.02.2025 MITCHELL			
		Norm			
		TR Electronic GmbH Eglishalde 6 D-78647 Trossingen Tel. +49 7425 228-0 www.tr-electronic.de		Zeichnung-Nr. (Drawing-No.) 04-CEV65M-M1005	
1	siehe Änderungshinweise	25.02.2025	FLA		
Zust.	Änderungen	Datum	Name	Dok.Art: IDW	Teil-Dok: 000
				Dok.Vs: 01	1/1 Bl.