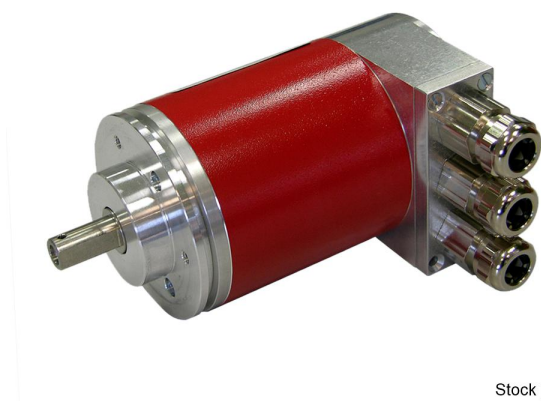


CEV65M*8192/4096 PB (ALT.:110-01542)

fieldbus hood



Stock photo



Order-#: CEV65M-01542

17.3.2023 / 010102006502020201

Advantages

- Customer-specific solutions
- Flexible programming
- Further interfaces available
- Modular mechanical design
- Modular product line

Technical data for CEV65M-01542

NO.OF STEPS/REV	8.192,000
NO. OF REVOLUTIONS	4.096,000
INTERFACE	PROFIBUS DP
CODE	PROGRAMABLE
OUTPUT LEVEL	RS485
SUPPLY VOLTAGE	11-27V
CONNECTOR TYPE	3XPG9
CONNECTOR-POSITION	PG RADIAL
MATING PLUG	NO
FLANGE TYPE	ZB36
SHAFT TYPE	10FL/19,5
OPERATING TEMPERATURE	-20+70°C
PROTECTION Class	IP65
OPTIONS ENC	12MBAUD

Subject to change.

CEV65M*8192/4096 PB (ALT.:110-01542)

fieldbus hood

Order-#: CEV65M-01542

17.3.2023 / 010102006502020201

Technical data for CEV65M-01542 continuation

	PNO-PROFILE CLASS.2
PINOUT NO.	TR-ECE-TI-D-0017
DRAWING NO.	04-CEV65M-M0003
VERSIONNO	000
FIRMWARE NO	437826
DOCUMENTATION NO	DOKUMENTE
AL:	N
ECCN:	N

General data for K-CEV65-PB-1

Nominal voltage	
- Specific value	24 VDC
- Limit values, min/max	11/27 VDC
Nominal current, typically	
- Specific value	120 mA
- Condition	unloaded
Device design	
- Type	Single-/Multi-Turn
Total resolution	<= 31 Bit
Number of steps per revolution	<= 8192
Number of revolutions	<= 256000
Output capacity	<= 25 Bit
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	18 µs
Incremental - Interface	
- Equipment	Optional interface
- Incremental signals, square	K1± K2±
- Impulses, square wave	1024 or 2048
- Output driver, TTL	RS-422, 5 VDC

Subject to change.

CEV65M*8192/4096 PB (ALT.:110-01542)

fieldbus hood

Order-#: CEV65M-01542

17.3.2023 / 010102006502020201

General data for K-CEV65-PB-1 continuation

Transmission rate	9.6...12000 kbit/s
- Specific value	
Cycle time	250 µs
Parameter/Function, changeable	Resolution
	Output code
	Limit switch
	External Preset inputs
	Adjustment - Parameter
	SSI-Parameter
	Counting direction
	Gear function
	Velocity parameter
Type of parametrization	programmable
Programming - Tool	Fieldbus-Device
External inputs	
- Preset	electronic adjustment
- Logic level	"0" < +2V, "1" = Supply
Maximum Speed, mechanically	<= 6000 1/min
Shaft load, axial/radial	<= 40 N, <= 60 N
Bearing life time	>= 3.9E+10 revolutions
Bearing life time - Parameter	
- Speed	3000 1/min
- Operating temperature	60 °C
- Shaft load, axial/radial	<= 20 N, <= 30 N
Point of origin, shaft load	at the shaft end
Shaft type	
- Shaft diameter [mm]	6
- Shaft diameter [mm]	8
- Shaft diameter [mm]	10
- Shaft diameter [mm]	12
- Shaft diameter [mm]	14
- Shaft diameter ["]	3/8
Angular acceleration	<= 10E+4 rad/s ²
Moment of inertia, typically	2.5E-6 kg m ²
Start-up torque, 20 °C	2 Ncm
Mass, typically	0.7 kg

Subject to change.

CEV65M*8192/4096 PB (ALT.:110-01542)

fieldbus hood

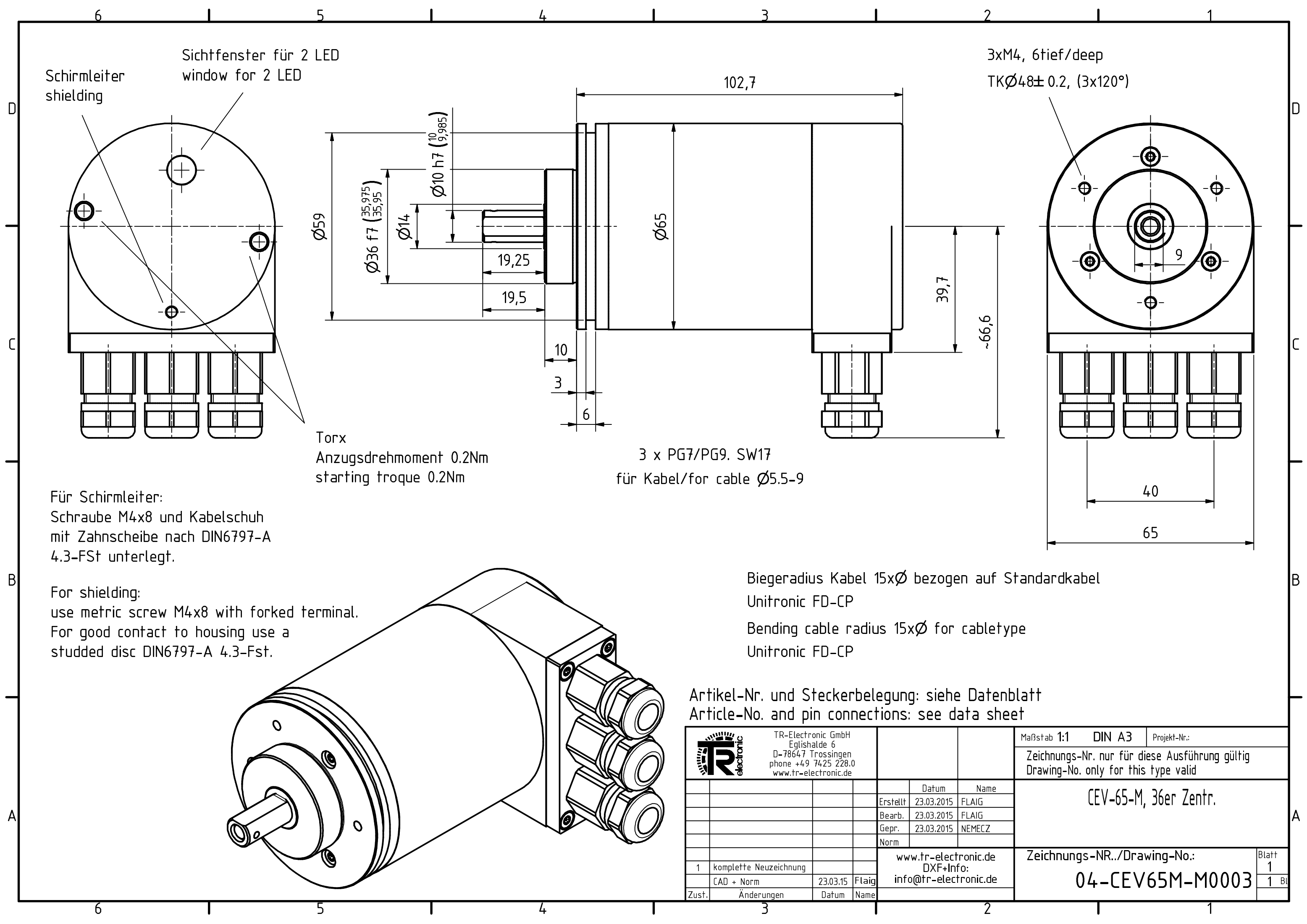
Order-#: CEV65M-01542

17.3.2023 / 010102006502020201

Environmental data

Vibration	
- Specific value	$\leq 100 \text{ m/s}^2$
- Sine	50...2000 Hz
Shock	
- Specific value	$\leq 1000 \text{ m/s}^2$
- Half sine	11 ms
Immunity to disturbance	DIN EN 61000-6-2
Transient emissions	DIN EN 61000-6-3
Working temperature	
- Standard	0...+60 °C
- Optional	-20...+70 °C;
Storage temperature, dry	-30...+80 °C
Relative humidity	98 %, non condensing
Protection class	
- Standard	IP65

Subject to change.



Schirmleiter
shielding

Sichtfenster für 2 LED
window for 2 LED

3xM4, 6tief/deep
TK $\varnothing 48 \pm 0.2$, (3x120°)

Torx
Anzugsdrehmoment 0.2Nm
starting troque 0.2Nm

3 x PG7/PG9. SW17
für Kabel/for cable $\varnothing 5.5-9$

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.

Biegeradius Kabel 15x $\varnothing$ bezogen auf Standardkabel
Unitronic FD-CP
Bending cable radius 15x $\varnothing$ for cabletype
Unitronic FD-CP

Artikel-Nr. und Steckerbelegung: siehe Datenblatt
Article-No. and pin connections: see data sheet

 TR-Electronic GmbH Eglshalde 6 D-78647 Trossingen phone +49 7425 228.0 www.tr-electronic.de						Maßstab 1:1 DIN A3 Projekt-Nr.:			
						Zeichnungs-Nr. nur für diese Ausführung gültig Drawing-No. only for this type valid			
					Datum	Name		CEV-65-M, 36er Zentr.	
				Erstellt	23.03.2015	FLAIG			
				Bearb.	23.03.2015	FLAIG			
				Gepr.	23.03.2015	NEMECZ			
				Norm					
				www.tr-electronic.de DXF+Info: info@tr-electronic.de				Zeichnungs-NR../Drawing-No.:	Blatt
1	komplette Neuzeichnung							04-CEV65M-M0003	1
	CAD + Norm	23.03.15	Flaig						1 Bl
Zust.	Änderungen	Datum	Name						

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

