

Absolute rotary Encoder

CEV65M*8192/4096 PBS+SSI(ALT.:110-02919)

OrderNo.:CEV65M-02919

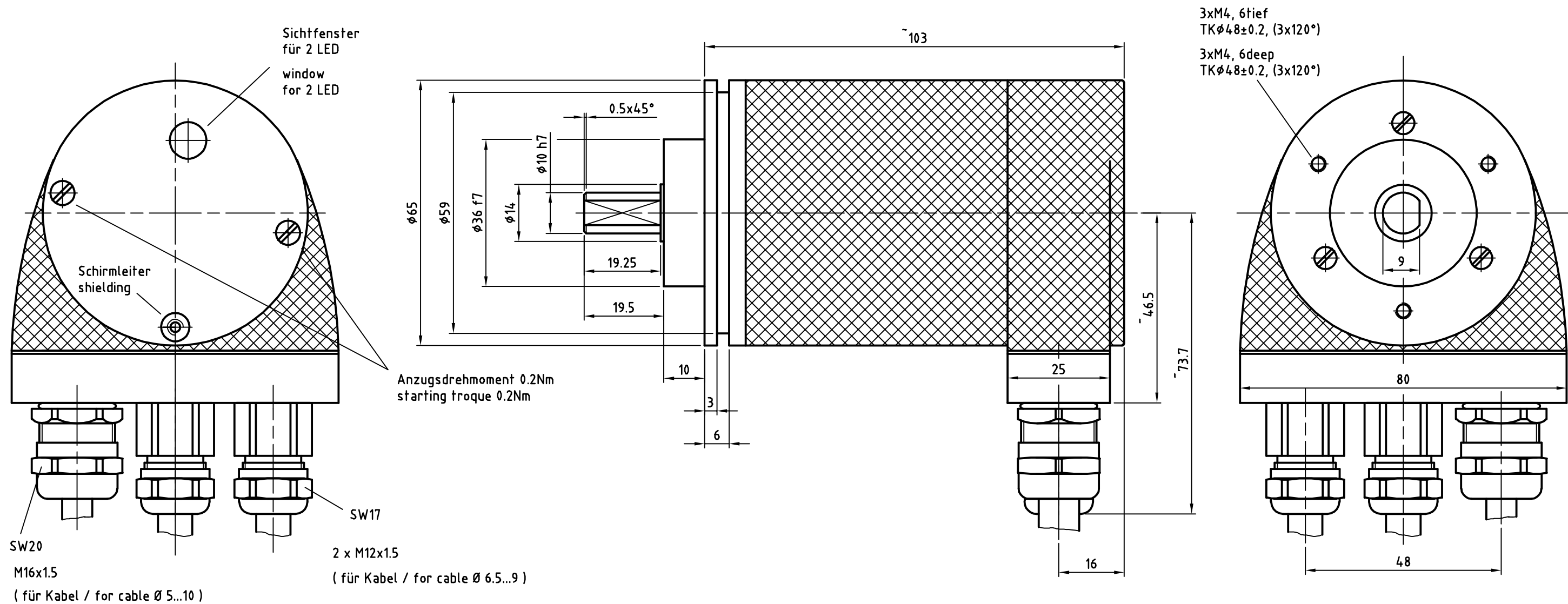
19.5.2023 / 010102006502020201

Technical data

NO.OF STEPS/REV	8.192,000
NO. OF REVOLUTIONS	4.096,000
INTERFACE	PROFIBUS DP+SSI
CODE	PROGRAMABLE
SUPPLY VOLTAGE	11-27V
OUTPUT LEVEL	RS422
OUTPUT LEVEL	RS485
PROTECTION Class	IP65
OPERATING TEMPERATURE	-20+70°C
FLANGE TYPE	ZB36
SHAFT TYPE	10FL/19,5
CONNECTOR TYPE	1XM16X1,5/2XM12X1,5
CONNECTOR-POSITION	PG RADIAL
PINOUT NO.	TR-ECE-TI-GB-0018
MATING PLUG	NO
OPTIONS ENC	12MBAUD
OPTIONS ENC	PNO-PROFILE CLASS.2
DRAWING NO.	04-CEV65M-M0014
VERSIONNO	000
FIRMWARE NO	437826
DOCUMENTATION NO	DOKUMENTE
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.



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.

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

TR TR Electronic GmbH Eglishalde 6 78647 Trossingen Telefon 07425/228-0						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	25.04.2005	Habetler						
				Bearb.	25.04.2005	HABETLER						
				Gepr.								
				Norm								
				www.tr-electronic.de				Zeichnungs-NR../Drawing-No.:				
				DXF+Info:								
				info@tr-electronic.de				04-CEV65M-M0014				
Ø36		f7		-0.025 -0.05	35.975 35.95		Zust.		Änderung		Datum	
Ø10		h7		0 -0.015	18 9.985		Name					
Dimensions		Tolerances										

Connector pin assignment Profibus Encoder with PNO-Profile Class 2 Design with COMBICON terminals, Preset and SSI-Interface

General note:

If the encoder is the last station in the profibus line, the DIP switches *DIP1* and *DIP2* 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 have two connection possibilities.

TR-Electronic recommends for the operation to use only bus cables certified by the Profibus User Organization (PNO). For the + and - signals of SSI cycle and SSI data twisted core pairs are to be used.

With the BCD address switches 10^0 and 10^1 the station address for the profibus is set from 3 to 99.

Explanation of terms:

MINI-COMBICON 5/6-pole:	Connector Phoenix MINI-COMBICON 8A/125V, grid 3.5 mm		
Connection:	inflexible 0,14 - 1,5 mm ²	flexible 0,14 - 1 mm ²	Conductor size (AWG) 26 - 16
	flexible with wire end sleeve without plastic sleeve: 0,25 - 0,5 mm ²		flexible with wire end sleeve with plastic sleeve: 0,25 - 0,5 mm ²
US:	Supply voltage, 11 - 27 V DC		
US-input:	1-level > +8V, 0-level < +2V, up to ±35V, 5 kOhm		
US-output:	1-level > US-2V, 0-level < 1 V, up to 100mA		
Opto-input:	Opto coupler for cable transmitter (RS485)		

X1 - MINI-COMBICON 5-pole

- Pin 1 Profibus DataB
- Pin 2 Profibus DataA
- Pin 3 Profibus M5V2
- Pin 4 *Do not wire!*
- Pin 5 Opto-input for SSI-Clock +

X2 - MINI-COMBICON 5-pole

- Pin 1 RS485-output for SSI-Data +
- Pin 2 US-input for Preset 1
- Pin 3 US-input for Preset 2
- Pin 4 0V-Ground
- Pin 5 US-Power Supply

X3 - MINI-COMBICON 6-pole

- Pin 1 Profibus DataB
- Pin 2 Profibus DataA
- Pin 3 Profibus M5V2
- Pin 4 *Do not wire!*
- Pin 5 Opto-input for SSI-Clock -
- Pin 6 RS485-output for SSI-Data -

