

Absolute rotary Encoder

CES582M*8192/4096 PB (ALT:CES58M-00044)

OrderNo.:CES582M-10044

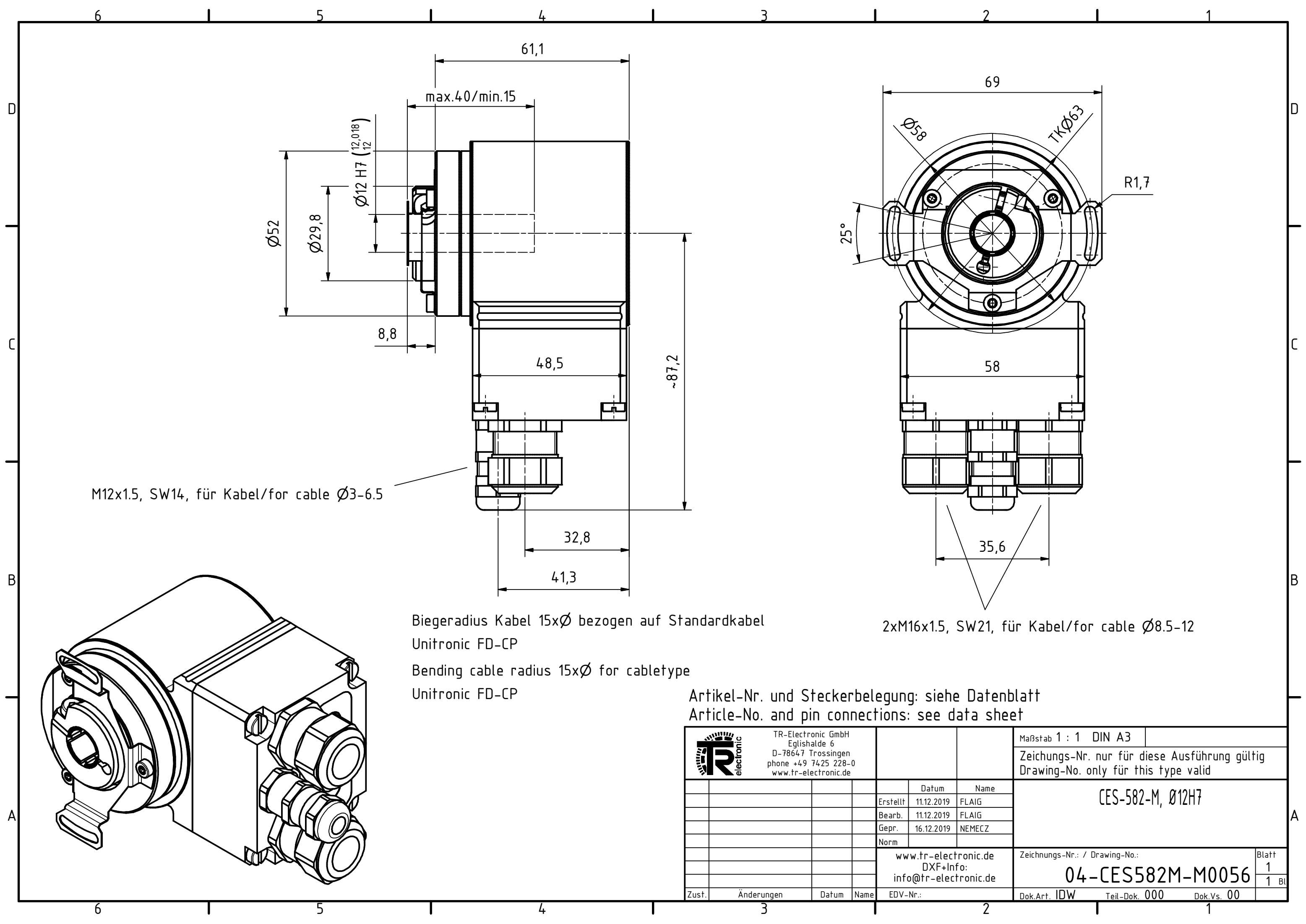
18.5.2023 / 010102058202020203

Technical data

NO.OF STEPS/REV	8.192,000
NO. OF REVOLUTIONS	4.096,000
PARAMETERIZABLE	VIA INTERFACE
INTERFACE	PROFIBUS DP
CODE	BINARY
SUPPLY VOLTAGE	10-30V
PROTECTION Class	IP65
OPERATING TEMPERATURE	-20°C... +75°C
FLANGE TYPE	DMS 2 FLÜGEL TEILKREIS 63
FLANGE TYPE	DREHMOMENTSTÜTZE (DMS)
SHAFT EXECUTION	(S) Blind shaft
SHAFT TYPE	D12H7
CONNECTOR TYPE	1x M12 CABLE GLAND
CONNECTOR TYPE	2x M16 CABLE GLAND
CONNECTOR-POSITION	CABLE GLAND RADIAL
PINOUT NO.	TR-ECE-TI-GB-0065
OPTIONS ENC	CLAMPING RING FRONT SIDE
OPTIONS ENC	SUBSTITUTE FOR C_58
DRAWING NO.	04-CES582M-M0056
AL:	N
ECCN:	N
MTTFd [y] (T=45°C, DC=0) >=	100
UL-APPROVALS	USA+CANADA

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.



M12x1.5, SW14, für Kabel/for cable Ø3-6.5

Biegeradius Kabel 15xØ bezogen auf Standardkabel
Unitronic FD-CP
Bending cable radius 15xØ for cabletype
Unitronic FD-CP

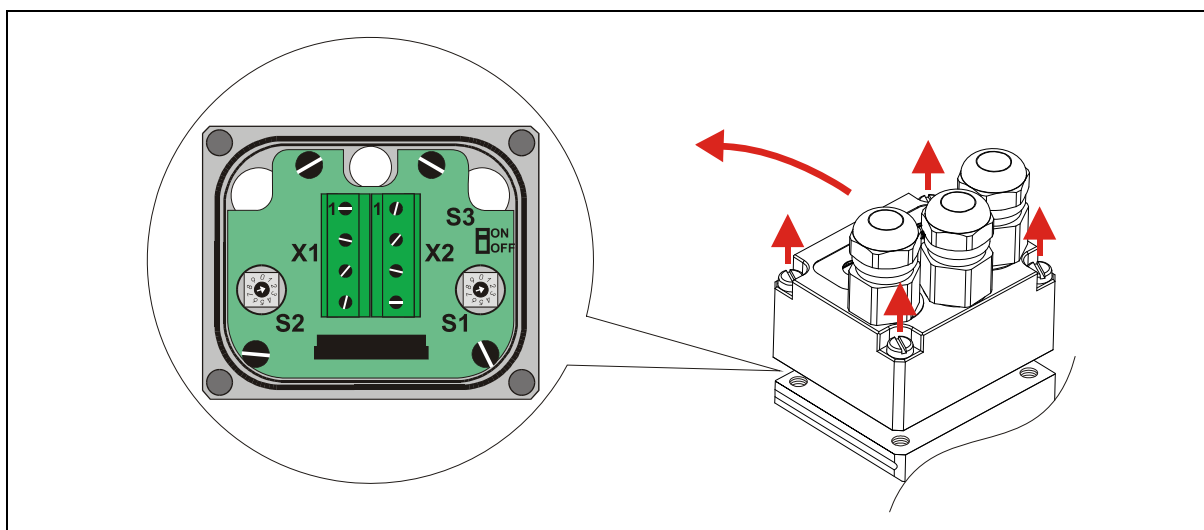
2xM16x1.5, SW21, für Kabel/for cable Ø8.5-12

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	
				Zeichnungs-Nr. nur für diese Ausführung gültig Drawing-No. only für this type valid	
				Datum	Name
				Erstellt	11.12.2019 FLAIG
				Bearb.	11.12.2019 FLAIG
				Gepr.	16.12.2019 NEMECZ
				Norm	
				CES-582-M, Ø12H7	
				www.tr-electronic.de DXF+Info: info@tr-electronic.de	
				Zeichnungs-Nr.: / Drawing-No.:	
				04-CES582M-M0056	
Zust.	Änderungen	Datum	Name	EDV-Nr.:	Blatt
				Dok.Art. IDW	1
				Teil-Dok. 000	1 Bl.
				Dok.Vs. 00	

Pin assignment

58 / 80 Profibus-DP PNO Class 2



X1	Screw clamp 4 pin	
Pin 1	Profibus, Data A	Profibus_IN
Pin 2	Profibus, Data B	
Pin 3	US, 11-27 V DC	
Pin 4	GND, 0V	

X2	Screw clamp 4 pin	
Pin 1	Profibus, Data A	Profibus_OUT
Pin 2	Profibus, Data B	
Pin 3	US, 11-27 V DC	
Pin 4	GND, 0V	

Print clamp, MKDSN 1,5/ 4-5,08: (not connected clamps must be tightened securely!)

- Nominal current: 13.5 A
- nominal voltage: 250 V
- grid spacing: 5.08 mm
- number of poles: 4
- connection angle: 0°
- nominal cross-section (flexible) max. 1.5 mm²
- nominal cross-section AWG/kcmil max. 16



Pin assignment

● = ON ○ = OFF ⊙ = 1 Hz ⊙ = 10 Hz

BUS FAIL (red)	BUS RUN (green)	Cause
○	○	No supply voltage, hardware error
●	⊙	Parameter- or configuration error (Preset value 1/2 or limit switch out of range, wrong GSD file) Memory error, position error
○	⊙	Blink mode is supported only in case of older measuring system generations. Unrecoverable measuring system defect (memory error, position error)
⊙	●	No allocation to a master, no data exchange
○	⊙	Parameter- or configuration error in PNO compatible target configuration (number of revolutions is not a power of two)
○	●	operational, no error, bus in cycle

General note:

If the measuring system is the last station in the Profibus segment, the DIP switch S3 for the Profibus terminator (switching-on of the terminal resistance) must be switched on. Otherwise the terminator must be switched off. With the add-on connection of the terminal resistance the Profibus signals DataA_OUT and DataB_OUT will be switched off and following slaves are separated from the bus.

The Profibus also operates, if the device is separated from the connection cap, however with one exception: **If the measuring system is the last station in the Profibus segment, the termination isn't fully active because the reference potential of the terminator resistance 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 (10^0) and S2 (10^1) the station address for the Profibus is set from 3 to 99.



Betriebsanleitung beachten! - Observe User Manual!

