

## Absolute rotary Encoder

**CES582M\*8192/4096 SSI (ALT:CES58M-00107)**

OrderNo.:CES582M-10107

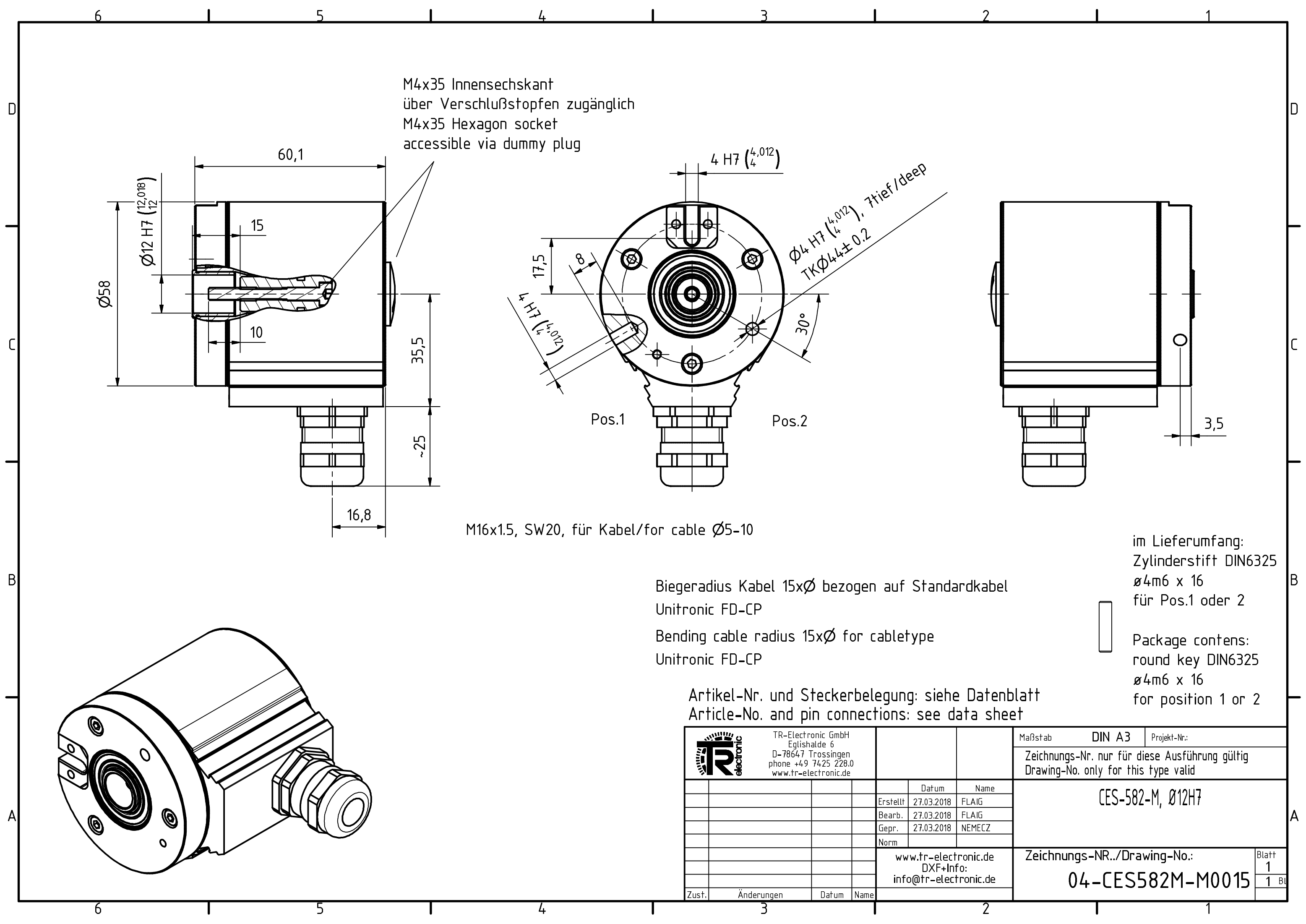
18.5.2023 / 010102058202010203

### Technical data

|                             |                              |
|-----------------------------|------------------------------|
| NO.OF STEPS/REV             | 8.192,000                    |
| NO. OF REVOLUTIONS          | 4.096,000                    |
| PARAMETERIZABLE             | VIA TRWINPROG                |
| INTERFACE                   | SSI                          |
| CODE                        | GRAY                         |
| SUPPLY VOLTAGE              | 10-30V                       |
| PROTECTION Class            | IP65                         |
| OPERATING TEMPERATURE       | -20°C... +75°C               |
| FLANGE TYPE                 | FLANSCHRING STIFT/NUT (FRSN) |
| FLANGE TYPE                 | FRSN 1XM3+3XD4               |
| SHAFT EXECUTION             | (S) Blind shaft              |
| SHAFT TYPE                  | D12H7                        |
| CONNECTOR TYPE              | 1x M16 CABLE GLAND           |
| CONNECTOR-POSITION          | CABLE GLAND RADIAL           |
| cable length (m)            | 3,000 M                      |
| PINOUT NO.                  | ST2796A                      |
| OPTIONS ENC                 | F/R HIGH-ACTIVE              |
| OPTIONS ENC                 | FIXING SCREW AXIAL M4        |
| OPTIONS ENC                 | PRESET 1+2                   |
| OPTIONS ENC                 | SSI DATA BITS: 25            |
| OPTIONS ENC                 | SSI MONO TIME: 20µs          |
| DRAWING NO.                 | 04-CES582M-M0015             |
| FIRMWARE NO                 | 437582                       |
| AL:                         | N                            |
| ECCN:                       | N                            |
| MTTFd [y] (T=45°C, DC=0) >= | 200                          |
| UL-APPROVALS                | USA+CANADA                   |

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

Subject to change.



M4x35 Innensechskant  
über Verschlußstopfen zugänglich  
M4x35 Hexagon socket  
accessible via dummy plug

M16x1.5, SW20, für Kabel/for cable Ø5-10

Biegeradius Kabel 15xØ bezogen auf Standardkabel  
Unitronic FD-CP

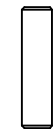
Bending cable radius 15xØ for cable type  
Unitronic FD-CP

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

im Lieferumfang:  
Zylinderstift DIN6325  
Ø4m6 x 16  
für Pos.1 oder 2

Package contents:  
round key DIN6325  
Ø4m6 x 16  
for position 1 or 2

|                                                                                                                                                                                                                |            |       |          |                                                                                        |        |                             |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|-------|----------|----------------------------------------------------------------------------------------|--------|-----------------------------|
|  <div>TR-Electronic GmbH<br/>Eglisshalde 6<br/>D-78647 Trossingen<br/>phone +49 7425 228.0<br/>www.tr-electronic.de</div> |            |       |          | Maßstab DIN A3                                                                         |        | Projekt-Nr.:                |
|                                                                                                                                                                                                                |            |       |          | Zeichnungs-Nr. nur für diese Ausführung gültig<br>Drawing-No. only for this type valid |        |                             |
|                                                                                                                                                                                                                |            |       |          | Datum                                                                                  | Name   |                             |
|                                                                                                                                                                                                                |            |       | Erstellt | 27.03.2018                                                                             | FLAIG  |                             |
|                                                                                                                                                                                                                |            |       | Bearb.   | 27.03.2018                                                                             | FLAIG  |                             |
|                                                                                                                                                                                                                |            |       | Gepr.    | 27.03.2018                                                                             | NEMECZ |                             |
|                                                                                                                                                                                                                |            |       | Norm     |                                                                                        |        |                             |
|                                                                                                                                                                                                                |            |       |          | www.tr-electronic.de<br>DXF+Info:<br>info@tr-electronic.de                             |        | Zeichnungs-NR./Drawing-No.: |
|                                                                                                                                                                                                                |            |       |          |                                                                                        |        | Blatt                       |
|                                                                                                                                                                                                                |            |       |          |                                                                                        |        | 1                           |
|                                                                                                                                                                                                                |            |       |          |                                                                                        |        | 1 BL                        |
| Zust.                                                                                                                                                                                                          | Änderungen | Datum | Name     |                                                                                        |        |                             |



## Pin assignment

Pin assignment number: 2796

Index: A

13.01.2021

Connector name: with cable outlet

Pin-count: 12

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| Pin | Designation         | Description                      | Colour    |
|-----|---------------------|----------------------------------|-----------|
| 1   | SSI_Clock-_IN       | Clock input -                    | white     |
| 2   | SSI_Clock+_IN       | Clock input +                    | brown     |
| 3   | SSI_DATA+_OUT       | Data output +                    | green     |
| 4   | SSI_DATA-_OUT       | Data output -                    | yellow    |
| 5   | Ser.Program+_IN/OUT | Ser. programming interface RS485 | gray      |
| 6   | Ser.Program-_IN/OUT | Ser. programming interface RS485 | pink      |
| 7   | not connected       |                                  |           |
| 8   | Direction IN        | Change of counting direction     | red       |
| 9   | Preset1_IN          | Preset value 1                   | black     |
| 10  | Preset2_IN          | Preset value 2                   | violet    |
| 11  | Supply Voltage IN   | Supply voltage                   | gray/pink |
| 12  | Ground IN           | Ground                           | red/blue  |

### WARNING

'De-energize the system before carrying out wiring work or opening and closing electrical connections !

Short-circuits, voltage peaks, etc. can cause operating failures and uncontrolled operating states, as well as serious personal injuries and damage to property.

Verdrahtungsarbeiten, Öffnen und Schließen von elektrischen Verbindungen nur im spannungslosen Zustand durchführen ! Kurzschlüsse, Spannungsspitzen etc. können zur Fehlfunktion und unkontrollierten Zuständen der Anlage bzw. zu erheblichen Personen- und Sachschäden führen.