

Magneto-strictive

LA\_46/42\*1850 EPN

OrderNo.:321-01802

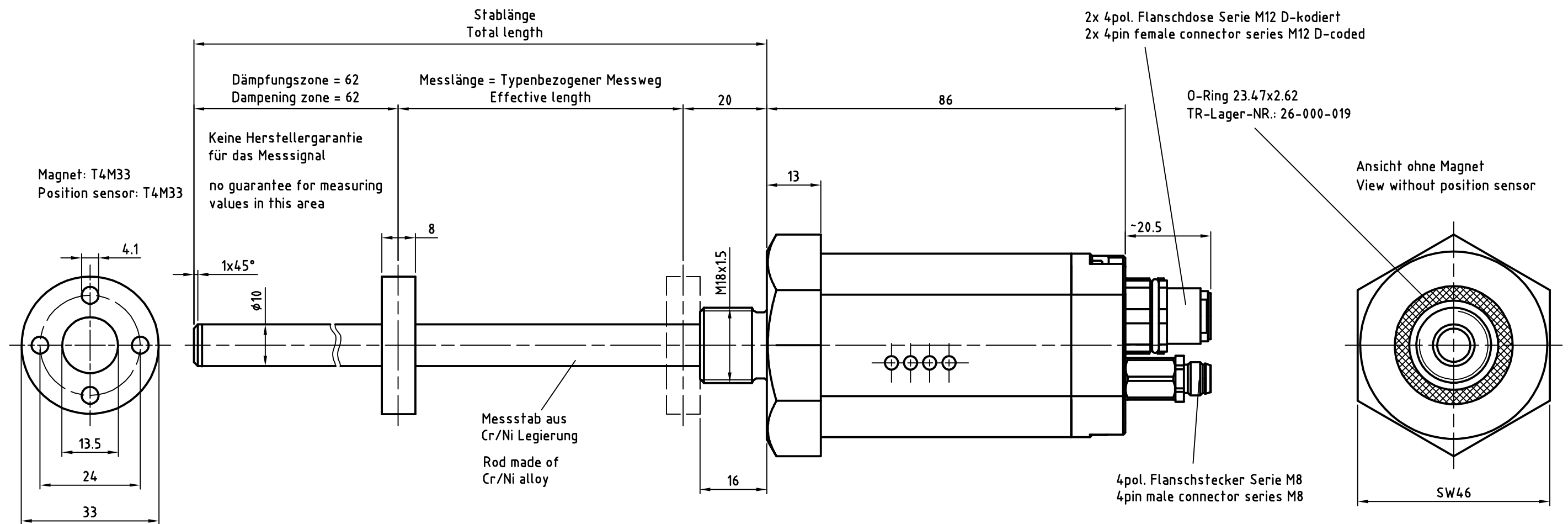
25.5.2023 / 010201005020050199

## Technical data

|                       |                                |
|-----------------------|--------------------------------|
| ROD LENGTH            | 1.932,00 MM                    |
| MEASURING LENGTH      | 1.850,00 MM                    |
| ROD END-MOUNTING      | NO                             |
| INTERFACE             | PROFINET IO                    |
| RESOLUTION            | 0,005 MM                       |
| SUPPLY VOLTAGE        | 19-27V                         |
| OPERATING TEMPERATURE | 0-70°C                         |
| FLANGETYPE            | STAHL LA42-COMPATIBLE          |
| MAGNET TYPE           | T4-M33                         |
| CONNECTOR TYPE        | 1X4P.M8-CONNECTOR              |
| CONNECTOR TYPE        | 2X4P.M12-CONN., D-COD(FEMALE)  |
| CONNECTOR-POSITION    | AXIAL                          |
| MATING PLUG           | NO                             |
| OPTION-LA             | PROGRAMMIERBAR                 |
| DRAWING NO.           | 04-K321-V0141                  |
| FIRMWARE NO           | 5676                           |
| PARAMETERFILE_BH      | GSDML-V2.X-TR-X-PNLINEAR-X.XML |
| PINOUT NO.            | TR-ELA-TI-DGB-0082             |
| VERSIONNO             | A                              |
| DOCUMENTATION NO      | DOKUMENTE                      |
| AL:                   | N                              |
| ECCN:                 | N                              |

|                |                                                            |
|----------------|------------------------------------------------------------|
| <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.



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

|                                                                                                                                                                                               |          |       |      |                                                            |            |                                                                                        |  |                                                |  |              |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-------|------|------------------------------------------------------------|------------|----------------------------------------------------------------------------------------|--|------------------------------------------------|--|--------------|
| <div></div> <div>TR Electronic GmbH<br/>Eglisshalde 6<br/>78647 Trossingen<br/>Telefon 07425/228-0</div> |          |       |      |                                                            |            | Maßstab 1:1    DIN A3                                                                  |  | Projekt-Nr.:                                   |  |              |
|                                                                                                                                                                                               |          |       |      |                                                            |            | Zeichnungs-Nr. nur für diese Ausführung gültig<br>Drawing-No. only for this type valid |  |                                                |  |              |
|                                                                                                                                                                                               |          |       |      |                                                            | Datum      | Name                                                                                   |  | LA-46/42, Ausf. PROFINET IO<br>Gewinde M18x1.5 |  |              |
|                                                                                                                                                                                               |          |       |      | Erstellt                                                   | 13.09.2011 | STIER                                                                                  |  |                                                |  |              |
|                                                                                                                                                                                               |          |       |      | Bearb.                                                     | 13.09.2011 | STIER                                                                                  |  |                                                |  |              |
|                                                                                                                                                                                               |          |       |      | Gepr.                                                      |            |                                                                                        |  |                                                |  |              |
|                                                                                                                                                                                               |          |       |      | Norm                                                       |            |                                                                                        |  |                                                |  |              |
|                                                                                                                                                                                               |          |       |      | www.tr-electronic.de<br>DXF+Info:<br>info@tr-electronic.de |            |                                                                                        |  | Zeichnungs-NR../Drawing-No.:                   |  | Blatt<br>000 |
|                                                                                                                                                                                               |          |       |      |                                                            |            |                                                                                        |  | 04-K321-V0141                                  |  | Bl           |
| Zust.                                                                                                                                                                                         | Änderung | Datum | Name |                                                            |            |                                                                                        |  |                                                |  |              |

## Steckerbelegung / Pin assignment



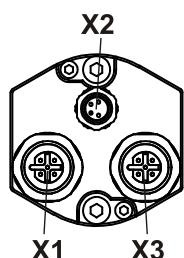
**Series LMRB-27**



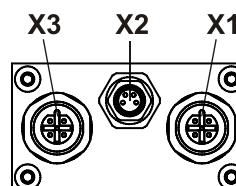
Sicherheitstechnische Hinweise in der Montageanleitung [www.tr-electronic.de/f/TR-ELA-BA-DGB-0004](http://www.tr-electronic.de/f/TR-ELA-BA-DGB-0004) beachten.  
Observe Safety informations in the Assembly Instructions [www.tr-electronic.de/f/TR-ELA-BA-DGB-0004](http://www.tr-electronic.de/f/TR-ELA-BA-DGB-0004).

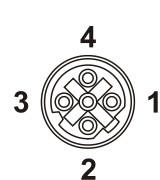
### L\_-46, LM\_I-46, LMP-30, LMRB-27 PROFINET IO (2xM12, 1xM8)

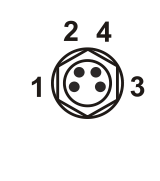
**L\_-46, LM\_I-46, LMRB-27**



**LMP-30**



| Pin | X1 = PORT 1 / X3 = PORT 2; Flanschdose / Female socket (M12x1-4 pin D-coded) |                 |                     |  |
|-----|------------------------------------------------------------------------------|-----------------|---------------------|--------------------------------------------------------------------------------------|
| 1   | TxD+                                                                         | Sendedaten +    | Transmission Data + |                                                                                      |
| 2   | RxD+                                                                         | Empfangsdaten + | Receive Data +      |                                                                                      |
| 3   | TxD-                                                                         | Sendedaten -    | Transmission Data - |                                                                                      |
| 4   | RxD-                                                                         | Empfangsdaten - | Receive Data -      |                                                                                      |

| X2 | Flanschstecker / Male socket (M8x1-4 pin) |                 |                                           |  |
|----|-------------------------------------------|-----------------|-------------------------------------------|---------------------------------------------------------------------------------------|
| 1  | 19 – 27 V DC                              | braun / brown   | Versorgungsspannung / Supply voltage      |                                                                                       |
| 2  | TRWinProg +                               | weiß / white    | Nur für Service-Zwecke / For service only |                                                                                       |
| 3  | GND, 0V                                   | blau / blue     | Versorgungsspannung / Supply voltage      |                                                                                       |
| 4  | TRWinProg -                               | schwarz / black | Nur für Service-Zwecke / For service only |                                                                                       |



Die Schirmung ist großflächig auf das Gegensteckergehäuse aufzulegen!

The shielding is to be connected with large surface on the mating connector housing!

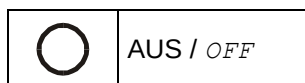
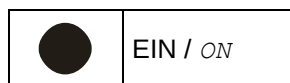
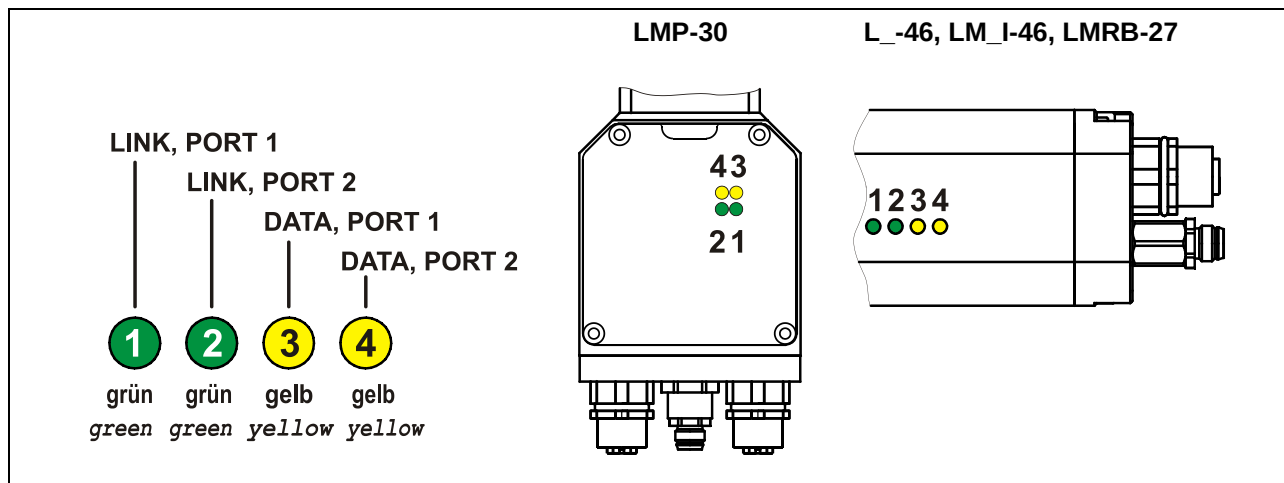
Bestellangaben zum Ethernet Steckverbinder, passend zur Flanschdose M12x1-4 pol. D-kodiert /  
Order numbers for the Ethernet connector, suitably for the D-coded female socket M12x1-4 pin

| Hersteller / Manufacturer | Bezeichnung / Name              | Art-No.:       |
|---------------------------|---------------------------------|----------------|
| Binder                    | Series 825                      | 99-3729-810-04 |
| Phoenix Contact           | SACC-M12MSD-4CON-PG 7-SH (PG 7) | 15 21 25 8     |
| Phoenix Contact           | SACC-M12MSD-4CON-PG 9-SH (PG 9) | 15 21 26 1     |
| Harting                   | HARAX® M12-L                    | 21 03 281 1405 |



## Steckerbelegung / Pin assignment

### Diagnose-LEDs / *Diagnosis-LEDs*



| Link-LEDs (grün / green)                                                            |                                                                                       |
|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
|  | Physikalische Verbindung vorhanden /<br><i>Physical connection available</i>          |
|  | Keine physikalische Verbindung vorhanden /<br><i>No physical connection available</i> |

| Data-LEDs (gelb / yellow)                                                                                                                                                    |                                                  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|
|                                                                                           | Kein Datenaustausch /<br><i>No data transfer</i> |
|  oder  | Datenaustausch /<br><i>data transfer</i>         |

| Blinkmodus durch Projektier-Tool / <i>Flashing mode due to development tool</i>     |                                             |
|-------------------------------------------------------------------------------------|---------------------------------------------|
|  | 2 Hz, grüne LEDs<br><i>2 Hz, green LEDs</i> |



Betriebsanleitung beachten! - Observe User Manual!!



Änderungen vorbehalten / Subject to change