Magneto-strictive

LMRI_46/42*50 PB

Order No.:339-00119
25.5.2023 / 010201004611010199

Technical data

ROD LENGTH	132,00 MM
MEASURING LENGTH	50,00 MM
ROD END-MOUNTING	NO
INTERFACE	PROFIBUS DP
OUTPUT LEVEL	RS485
RESOLUTION	0,001 MM
SUPPLY VOLTAGE	19-27V
OPERATING TEMPERATURE	0-70°C
FLANGETYPE	STAHL LA42-COMPATIBLE
MAGNET TYPE	T4-M33
CONNECTOR TYPE	2XM16X1,5/1XM12X1,5
CONNECTOR-POSITION	AXIAL
MATING PLUG	NO
OPTION-LA	12MB,PNO-PROFIL CLASS.2
DRAWING NO.	04-K339-V0024
FIRMWARE NO	5844
PARAMETERFILE_BH	TR04AAAC.GSD
PINOUT NO.	TR-ELA-TI-GB-0044
VERSIONNO	A
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.

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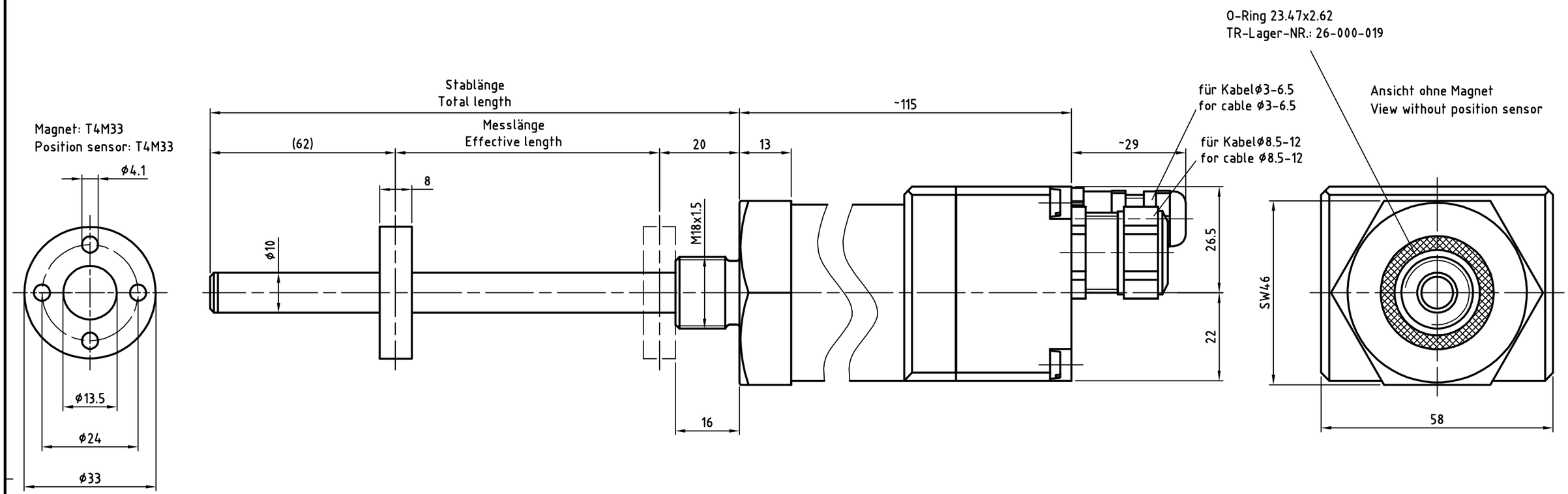

Artikel-Nr. und Steckerbelegung: siehe Datenblatt
Article-No. and pin connections: see data sheet

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	Datum	Name
Erstellt	20.07.2017	STIER
Bearb.	20.07.2017	STIER
Gepr.		
Norm		

Zust.	Änderung	Datum	Name

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Maßstab 1:1 DIN A3 Projekt-Nr.:

Zeichnungs-Nr. nur für diese Ausführung gültig
Drawing-No. only for this type valid

LMRI-46/42
Gewinde M18x1.5

Zeichnungs-NR../Drawing-No.:
04-K339-V0024

Blatt 000 Bl

Connector pin assignment LA-46 / LP-46 Profibus-DP PNO Class 2

General note:

If the linear encoder 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 linear encoder 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.

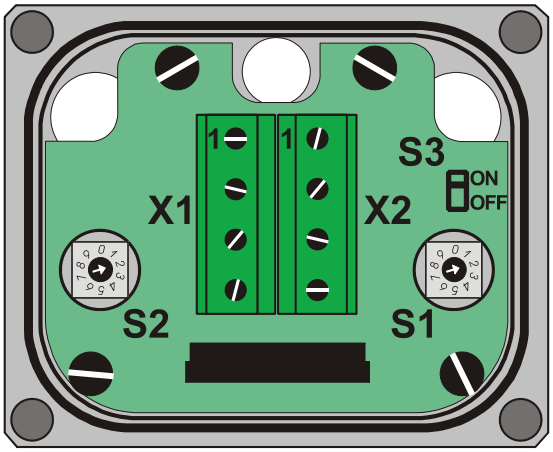
Print clamp, MKDSN 1,5/ 4-5,08: *(not connected clamps must be tightened securely!)*

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

Explanation of terms	
US	Supply Voltage, 19-27 V DC

X1	*Screw clamp, 4-pole*	
Pin 1 Pin 2 Pin 3 Pin 4	Profibus, Data A Profibus, Data B US-supply voltage 0V, GND	**Profibus_IN**

X2	*Screw clamp, 4-pole*	
Pin 1 Pin 2 Pin 3 Pin 4	Profibus, Data A Profibus, Data B US-supply voltage 0V, GND	**Profibus_OUT**



Status LEDs
- BUS RUN = green
- BUS FAIL = red

● = ON
○ = OFF
◉ = FLASHING

GREEN
- ● : Operational
- ○ : No supply voltage, hardware error
- ◉ : Parameter- or configuration error

RED
- ○ : No error, bus in cycle
- ◉ : No allocation to a master
- ● : No recoverable encoder defect

Subject to change