



TR-electronic LMRB-27 Compact Linear Encoder Instructions

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TR-electronic LMRB-27 Compact Linear Encoder



Product Information

Specifications

- **Series:** LMRB-27
- **Interface:** Profibus-DP PNO Class 2
- **Connectors:** 2x M12 (Male), 1x M8 (Male), 3x M12 (Female)
- **Pin Assignment:**
 - **X1:**
 - Pin 1: N.C. Profibus, Data A
 - Pin 2: N.C. Profibus, Data B
 - Pin 3: N.C. Shielding
 - **X2:**
 - Pin 1: VP, +5 V DC for bus termination
 - Pin 2: Profibus, Data A
 - Pin 3: DGND for bus termination
 - Pin 4: Profibus, Data B
 - Pin 5: N.C. Shielding
 - **X3:**
 - Pin 1: Brown
 - Pin 2: White
 - Pin 3: Blue
 - Pin 4: Black
- **Supply Voltage/TRWinProg:** Can be used for service purposes only or for connecting an external display (TA-MINI)

Product Usage Instructions

Installation

1. Refer to the safety information provided in the Assembly Instructions at www.tr-electronic.de/f/TR-ELA-BA-DGB-0004
2. Ensure that the power is turned off before installing or connecting the device
3. Connect the appropriate connectors to their respective ports as per the pin assignment described above
4. Tighten the screw glands securely to ensure proper connection

Operation

1. Once the device is properly installed and connected, power on the device
2. Depending on your specific application, configure the device using TRWinProg or connect an external display (TA-MINI) for monitoring purposes
3. Refer to the User Manual for detailed instructions on configuring and operating the device

Maintenance

To ensure optimal performance and longevity of the product, follow these maintenance guidelines:

- Regularly inspect the connectors and cables for any signs of damage or wear
- Clean the connectors and ports using a soft, dry cloth to remove any dirt or debris

- Avoid exposing the device to extreme temperatures or humidity
- Keep the device away from dust, liquids, and corrosive substances

Troubleshooting

If you encounter any issues with the product, please refer to the FAQ section below or consult the User Manual for troubleshooting steps.

FAQ

- **Q: Where can I find the User Manual for this product?**

A: The User Manual can be found at the following link: [insert link to User Manual]

- **Q: How do I connect an external display (TA-MINI) to the device?**

A: Connect the external display to the X3 connector using the appropriate pins as described in the pin assignment section. Ensure a secure connection.

- **Q: What should I do if the device is not functioning properly?**

A: First, check all connections to ensure they are properly secured. If the issue persists, consult the troubleshooting section in the User Manual or contact our customer support for assistance.

Series LMRB-27

Observe Safety information in the Assembly Instructions www.tr-electronic.de/f/TR-ELA-BA-DGB-0004.

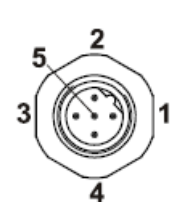
L_-46-K; LM_I-46; LMRB-27 Profibus-DP PNO Class 2 (2xM12, 1xM8) + (3xM12)

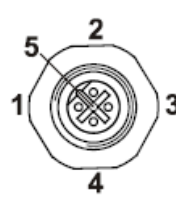
General note

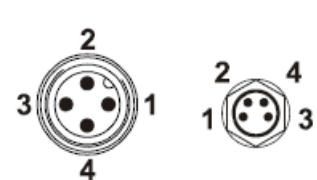
- If the measuring system is the last station in the Profibus segment, the bus must be terminated according to the PROFIBUS standard. The bus termination can be requested also from TR-Electronic, Art.-No.: 40803-40005 (M12 male socket, B-coded, 220Ω).
- To enable a separate wiring of incoming and outgoing signals the Profibus connectors have two connection possibilities.

TR-Electronic recommends the operation use only bus cables certified by the Profibus User Organization (PNO). The shielding is to be connected with the large surface on the mating connector housing! With the BCD address switches S1 (100) and S2 (101) the station address for the Profibus is set from 1 to 99.

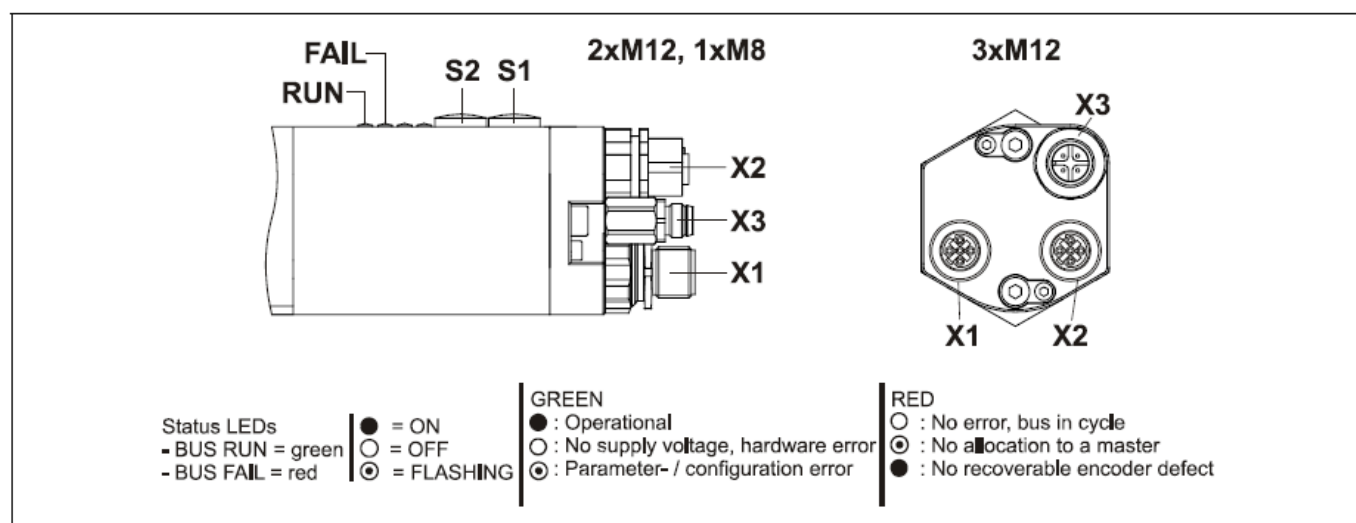
Sockets

X1	Male socket, (M12x1-5 pol. B-coded)		
Pin 1	N.C.	Profibus_IN	
Pin 2	Profibus, Data A		
Pin 3	N.C.		
Pin 4	Profibus, Data B		
Pin 5	N.C.		
Screwed gland	Shielding		

X2		Female socket, (M12x1-5 pol. B-coded)	
Pin 1	VP, +5 V DC for bus termination	Profibus_OUT or termination	
Pin 2	Profibus, Data A		
Pin 3	DGND for bus termination		
Pin 4	Profibus, Data B		
Pin 5	N.C.		
Screwed gland	Shielding		

X3	Male socket, (M8x1-4 pol. / M12x1-4 pol.)			
Pin 1	19 – 27 V DC	brown	Supply Voltage / TRWinProg (for service only) or connection of an external display TA-MINI	
Pin 2	TRWinProg +	white		
Pin 3	GND, 0V	blue		
Pin 4	TRWinProg –	black		

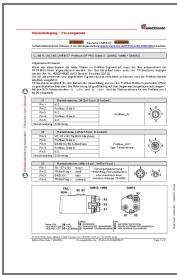
Wiring



Contact Information

- **TR – ELECTRONIC GmbH**, Eglshalde 6, 78647 Trossingen
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Documents / Resources



[TR-electronic LMRB-27 Compact Linear Encoder](#) [pdf] Instructions
L_-46-K, LM_I-46, LMRB-27, LMRB-27 Compact Linear Encoder, Compact Linear Encoder, Linear Encoder, Encoder

References

- [User Manual](#)