

## 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 mm<sup>2</sup>, nominal cross-section AWG/kcmil max. 16

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

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

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

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