

Connector pin assignment LA-66 Profibus Linear-Encoder with PNO-Profile Class 2

General note:

If the linear-encoder is the last station in the profibus line, the DIP switches *S3* and *S4* for the profibus terminator (switching-on of the terminal resistance) must be switched on. Otherwise they must be switched off.

The profibus also works when the linear-encoder is removed. Is the linear-encoder the last station in the profibus line, the reference potential of the terminator resistances 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.

Bus-cables, recommended by Siemens, should be used.

With the BCD address switches *S1* (10^1) and *S2* (10^0) the station address for the profibus is set from 3 to 99.

Explanation of terms:

LA-66:	Linear-Encoder with Ø 65 mm
US:	Supply voltage, 19-27 V DC
US-input:	1-level > +8V, 0-level < +2V, up to ±35V, 5 kOhm

X1 - screw clamp 2-pin

Pin 1	Profibus DataA
Pin 2	Profibus DataB

X2 - screw clamp 2-pin

Pin 1	Profibus DataB
Pin 2	Profibus DataA

X3 - screw clamp 2-pin

Pin 1	US-input for Preset 1
Pin 2	-

X4 - screw clamp 2-pin

Pin 1	US, supply voltage
Pin 2	GND, supply voltage 0 V

X5 - screw clamp 2-pin

Pin 1	GND, supply voltage 0 V
Pin 2	US, supply voltage

