

**Connector pin assignment Profibus-DP Encoder with PNO-Profile Class 2
Design with two-pole screw terminals and Preset**

General note:

If the 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 encoder is removed. Is the 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.

TR-Electronic recommends for the operation to use only bus cables certified by the Profibus User Organization (PNO).

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

Explanation of terms:

US: Supply voltage, 11-27 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 US-input for Preset 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

