Connector pin assignment CE-65 Profibus Encoder according PNO-Profile Class 2 with incremental outputs

General note:

If the encoder is the last station in the profibus line, the DIP switches *DIP1 and DIP2* 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 have two connection possibilities.
TR-Electronic recommends for the operation to use only bus cables certified by the PNO. For the + and – signals of the incremental data twisted core pairs are to be used.
With the BCD address switches 10^0 and 10^1 the station address for the profibus is set from 3 to 99.

Explanation of terms:

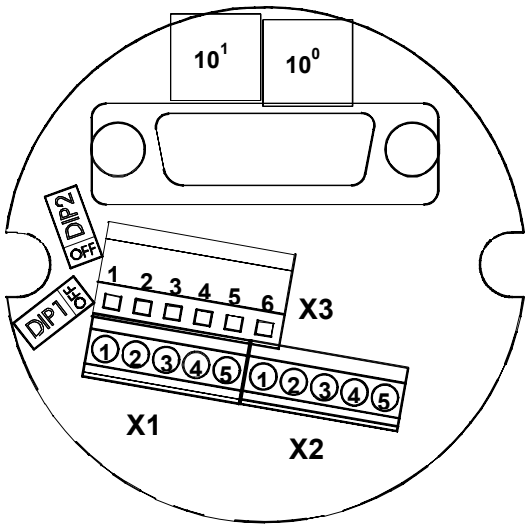
CE65:	Compact Encoder with ∅ 65 mm
MINI-COMBICON:	Connector Phoenix MINI-COMBICON 8A/125V, grid 3.5 mm
US:	Supply voltage, 11 - 27 V DC
US-input:	1-level > +8V, 0-level < +2V, up to ±35V, 5 kOhm
US-output:	1-level > US-2V, 0-level < 1 V, up to 100mA

X1 - MINI-COMBICON 5-pole

Pin 1 Profibus DataB
Pin 2 Profibus DataA
Pin 3 Profibus M5V2
Pin 4 *Do not connect!*
Pin 5 RS422-output K2+

X2 - MINI-COMBICON 5-pole

Pin 1 RS422-output K1+
Pin 2 US-input for Preset 1
Pin 3 US-input for Preset 2
Pin 4 GND, supply voltage 0 V
Pin 5 US, supply voltage



X3 - MINI-COMBICON 6-pole

Pin 1 Profibus DataB
Pin 2 Profibus DataA
Pin 3 Profibus M5V2
Pin 4 *Do not connect!*
Pin 5 RS422-output K2-
Pin 6 RS422-output K1-