

Connector pin assignment CE-65 Profibus Encoder with SSI-Interface

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 cover with the terminals can be replaced while the encoder is alive. The profibus also works when the encoder is removed, except if it is the last station. The supply of the terminator is then missing.

In order to enable a separate wiring of incoming and outgoing signals the profibus terminals have two connection possibilities. Cables with twisted core pairs, recommended by Siemens, should be used.

For the + and - signals of SSI cycle, SSI data and RS485 twisted core pairs are to be used.

With the BCD address switches 10^0 and 10^1 the station address for the profibus can be set from 3 to 99. Select "yes" in the line "address switch" the section "Profibus" in the EPROG dialogue. Otherwise enter the profibus address directly in the EPROG dialogue, regardless of the position of the address switch.

Explanation of terms:

CE65:	Compact-Encoder with \varnothing 65 mm
MINI-COMBICON:	Connector Phoenix MINI-COMBICON 8A/125V, grid 3.5 mm
US:	Supply voltage
US-input:	1-level > +8V, 0-level < +2V, up to \pm 35V, 5 kOhm
US-output:	1-level > US-2V, 0-level < 1 V, up to 100mA
TTL-input:	1-level > +2.0V, 0-level < +0.8V, up to \pm 35V, 5 kOhm
TTL-output:	1-level > +2.0V, 0-level < +0.8V, up to 40mA
Opto-input:	Opto coupler for cable transmitter or TTL- differential signals

X1 - MINI-COMBICON 5-pole

Pin 1	Profibus DataB
Pin 2	Profibus DataA
Pin 3	Profibus M5V2
Pin 4	RS485 for PC-adapter and EPROG +
Pin 5	Opto-input for SSI-Clock +

X2 - MINI-COMBICON 5-pole

Pin 1	TTL-output for SSI-Data +
Pin 2	US-input for Preset 1
Pin 3	US-input for Preset 2
Pin 4	0V-Ground
Pin 5	US-Power Supply

X3 - MINI-COMBICON 6-pole

Pin 1	Profibus DataB
Pin 2	Profibus DataA
Pin 3	Profibus M5V2
Pin 4	RS485 for PC-adapter and EPROG -
Pin 5	Opto-input for SSI-Clock -
Pin 6	TTL-output for SSI-Data -

