

Connector pin assignment INTERBUS-S Encoder with SYPI3 and SSI-Interface

General note:

If the encoder is the last node in the ring, you must wire connector X1 for the incoming remote bus interface and connector X2 for the encoder supply voltage (connector X3 is not wired).

If there are additional nodes in the ring after the encoder, you must additionally wire connector X3 for the remote out interface to the subsequent node.

For the subsequent node to be detected, you must insert a jumper between PIN5 and PIN6 on connector X3.

TR-profile: ID=51 dec. (33 HEX), K1: ID=54 dec. (36 HEX), K2: ID=54 dec. (36 HEX), K3: ID=55 dec. (37 HEX).

Explanation of terms:

CE65:	Compact Encoder with diameter of 65 mm		
MINI-COMBICON 5/6-pole:	Connector Phoenix MINI-COMBICON 8A/125V, grid 3.5 mm		
Connection:	inflexible 0,14 - 1,5 mm ²	flexible 0,14 - 1 mm ²	Conductor size (AWG) 26 - 16
	flexible with wire end sleeve without plastic sleeve: 0,25 - 0,5 mm ²		flexible with wire end sleeve with plastic sleeve: 0,25 - 0,5 mm ²
US:	Supply voltage, 11 - 27 V DC		
TTL-output:	1-level > +2.0V, 0-level < +0.8V, up to 40mA		
Opto-input:	Opto coupler for cable transmitter or TTL-differential signals		
GNDI / GND	Data reference potentials that are galvanically isolated from one another		

X1 - MINI-COMBICON 6-pole, REMOTE IN

- Pin 1 DO inverted
- Pin 2 DO
- Pin 3 DI inverted
- Pin 4 DI
- Pin 5 GNDI (data reference potential from predecessor)
- Pin 6 Opto-input for SSI-clock –

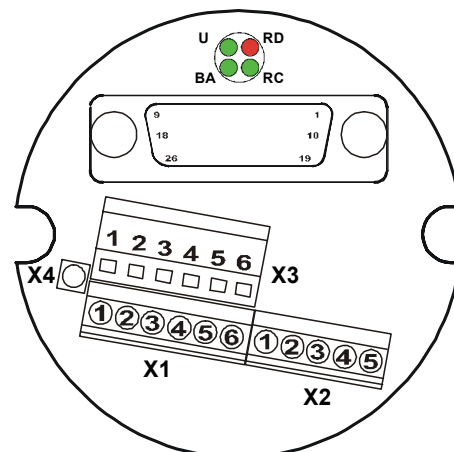
X2 - MINI-COMBICON 5-pole

- Pin 1 Opto-input for SSI-clock +
- Pin 2 TTL-output for SSI-data –
- Pin 3 TTL-output for SSI-data +
- Pin 4 0V, GND
- Pin 5 US-Supply

X3 - MINI-COMBICON 6-pole, REMOTE OUT

- Pin 1 DO inverted
- Pin 2 DO
- Pin 3 DI inverted
- Pin 4 DI
- Pin 5 GND (data reference potential for successor)
- Pin 6 RBST inverted

The cable shielding is to be connected on the cable gland!



X4 - Screw clamp, cable shielding for REMOTE IN

- Pin 1 Is connected about a RC-element with the case

LEDs

- RD (red): Following IBS-Interface is disconnected
- RC (green): Remote-Control
- BA (green): Interbus-S active
- U (green): SUPI Supply-Voltage