

## Connector pin assignment LA-66 INTERBUS-S Linear-Encoder

### 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.

Encoder Identno. = 51 decimal (33 HEX).

### Explanation of terms:

LA-66:	Absolute-Linear-Encoder		
MINI-COMBICON 5/6-pole:	Connector Phoenix MINI-COMBICON 8A/125V, grid 3.5 mm		
Connection:	inflexible 0,14 - 1,5 mm <sup>2</sup>	flexible 0,14 - 1 mm <sup>2</sup>	Conductor size (AWG) 26 - 16
	flexible with wire end sleeve without plastic sleeve: 0,25 - 0,5 mm <sup>2</sup>	flexible with wire end sleeve with plastic sleeve: 0,25 - 0,5 mm <sup>2</sup>	
US:	Supply voltage, 19 - 27 V DC		
GNDI / GND	Data reference potentials that are galvanically isolated from one another		

### X1 - MINI-COMBICON 6-pin, REMOTE IN bus

- Pin 1 DO inverted
- Pin 2 DO
- Pin 3 DI inverted
- Pin 4 DI
- Pin 5 GNDI (data reference potential from predecessor)
- Pin 6 NC

### X2 - MINI-COMBICON 5-pin

- Pin 1 NC
- Pin 2 NC
- Pin 3 NC
- Pin 4 0V supply
- Pin 5 US supply

### X3 - MINI-COMBICON 6-pin, REMOTE OUT bus

- 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

### LED's

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

