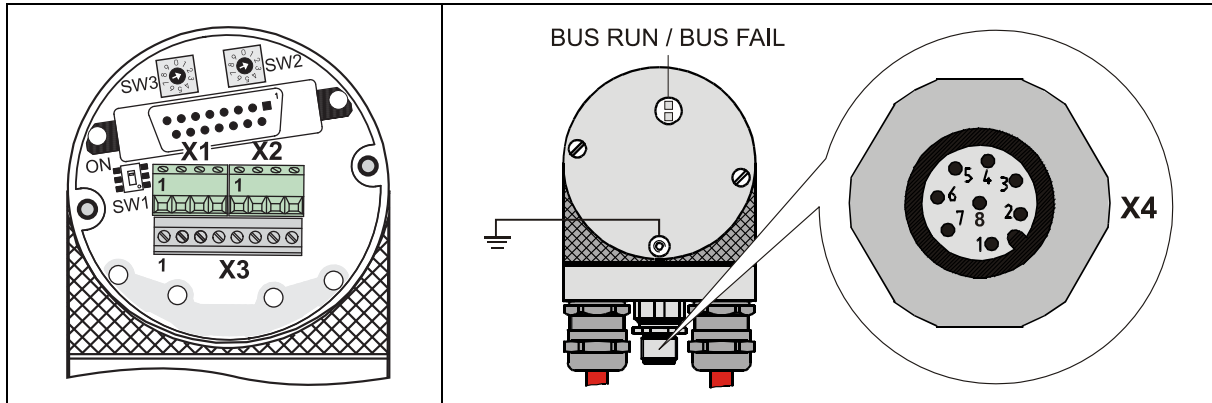


## Pin assignment

### CE-65 Profibus-DP PNO Class 2 with 4 Cams



X1	4 pin, 0.14-1.5 mm <sup>2</sup> fixed, 0.14-1 mm <sup>2</sup> flexible, connection direction 55°		
Pin 1	Profibus, Data A		Profibus_OUT
Pin 2	Profibus, Data B		
Pin 3	US Output, Cam 1	(white)	Cams 1 – 2 (1-Level > US-2 V, 0-Level < 1 V, up to 30 mA)
Pin 4	US Output, Cam 2	(brown)	

X2	4 pin, 0.14-1.5 mm <sup>2</sup> fixed, 0.14-1 mm <sup>2</sup> flexible, connection direction 55°		
Pin 1	US Output, Cam 3	(green)	Cams 3 – 4 (1-Level > US-2 V, 0-Level < 1 V, up to 30 mA)
Pin 2	US Output, Cam 4	(yellow)	
Pin 3	GND, 0V		Supply voltage subsequent subscriber
Pin 4	US, 11-27 V DC		

X3	8 pin, 0.14-1.5 mm <sup>2</sup> fixed, 0.14-1 mm <sup>2</sup> flexible		
Pin 1	Profibus, Data A		Profibus_IN
Pin 2	Profibus, Data B		
Pin 3	N.C.		-
Pin 4	N.C.		
Pin 5	US Input, Preset 1	(gray)	Preset Inputs (1-Level > +8 V, 0-Level < +2 V, up to ±35 V, 5 kOhm)
Pin 6	US Input, Preset 2	(pink)	
Pin 7	GND, 0V	(blue)	Measuring system supply voltage
Pin 8	US, 11-27 V DC	(red)	

X4	Male connector (M12 - 8 pin A coded)		
Pin 1	US Output, Cam 1	(white)	→ X1 pin 3
Pin 2	US Output, Cam 2	(brown)	→ X1 pin 4
Pin 3	US Output, Cam 3	(green)	→ X2 pin 1
Pin 4	US Output, Cam 4	(yellow)	→ X2 pin 2
Pin 5	US Input, Preset 1	(gray)	→ X3 pin 5
Pin 6	US Input, Preset 2	(pink)	→ X3 pin 6
Pin 7	GND, 0V	(blue)	→ X3 pin 7
Pin 8	US, 11-27 V DC	(red)	→ X3 pin 8



Betriebsanleitung beachten! - Observe User Manual!



## Pin assignment

● = ON    ○ = OFF    ⊙ = 1 Hz    ⊚ = 10 Hz

BUS FAIL (red)	BUS RUN (green)	Cause
○	○	No supply voltage, hardware error
●	⊙	Parameter- or configuration error (Preset value 1/2 or limit switch out of range, wrong GSD file) Memory error, position error
○	⊙	Blink mode is supported only in case of older measuring system generations. Unrecoverable encoder defect (memory error, position error)
⊙	●	No allocation to a master, no data exchange
○	⊙	Parameter- or configuration error in PNO compatible target configuration (number of revolutions is not a power of two)
○	●	operational, no error, bus in cycle

### General note:

If the measuring system is the last station in the Profibus segment, the DIP switch *SW1* for the Profibus terminator (switching-on of the terminal resistance) must be switched on. Otherwise the terminator must be switched off. With the add-on connection of the terminal resistance the Profibus signals DataA\_OUT and DataB\_OUT will be switched off and following slaves are separated from the bus.

The Profibus also operates, if the device is separated from the connection cap, however with one exception: **If the measuring system is the last station in the Profibus segment, the termination isn't fully active because the reference potential of the terminator resistance is missing!**

In order to enable a separate wiring of incoming and outgoing signals the Profibus and Voltage terminals 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 *S2* ( $10^0$ ) and *S3* ( $10^1$ ) the station address for the Profibus is set from 3 to 99.



Betriebsanleitung beachten! - Observe User Manual!

