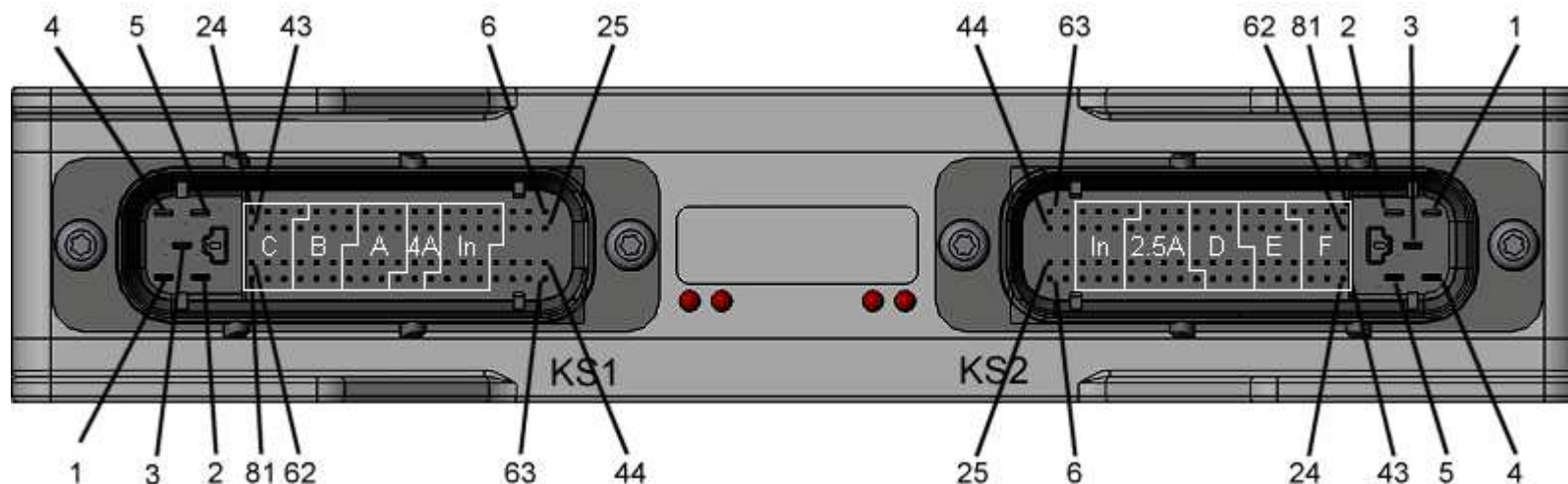


- stw__logo
- <<
- [Connectors positioning](#)
- [Power wiring](#)
- [Communication wiring](#)
- [see also](#)

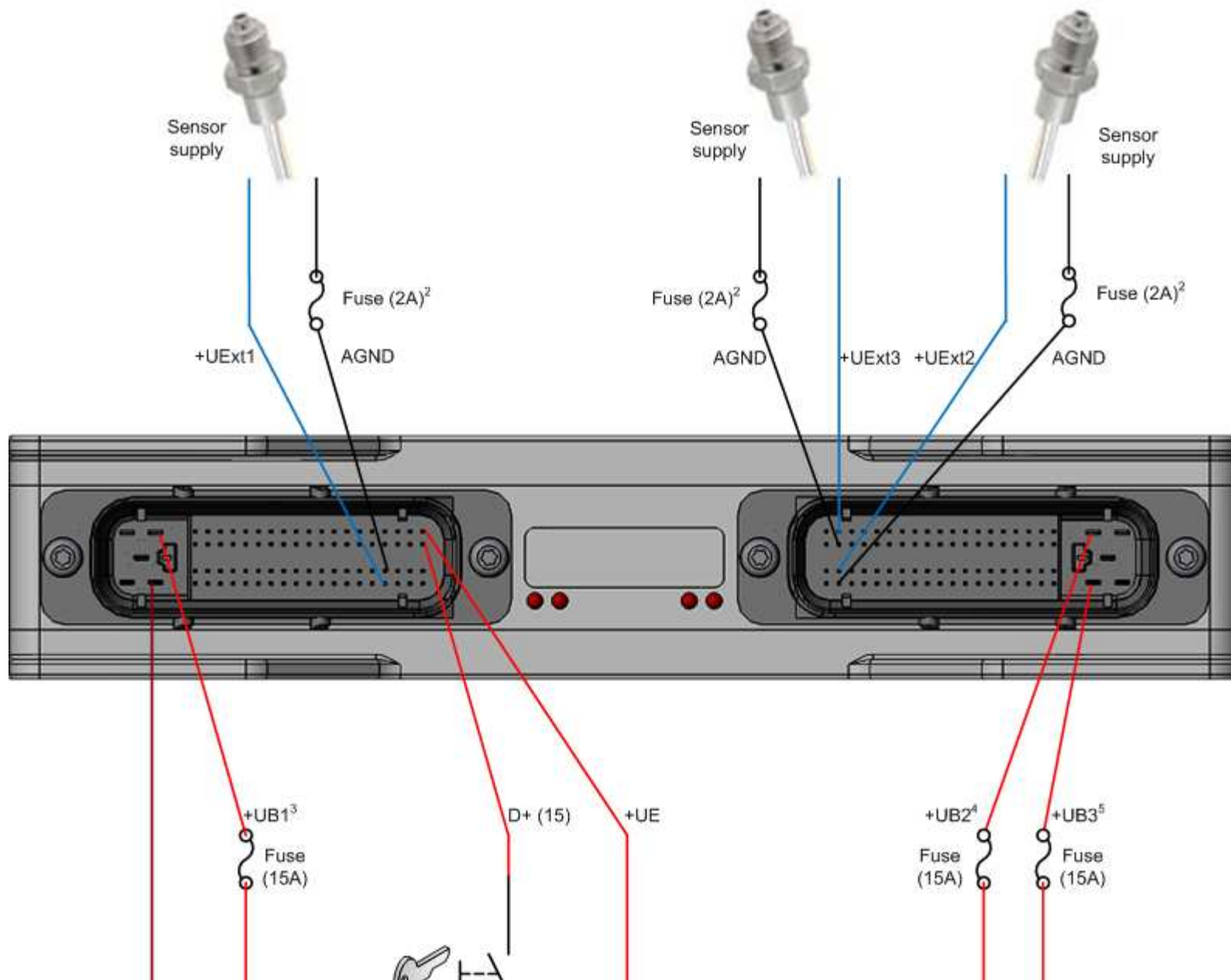
ESX-3XL - Mainboard - Hardware - Wiring diagrams

First of all, connectors are shown once again for a easier finding of pins:

Connectors (male) of ESX-3XL (KS1 and KS2)



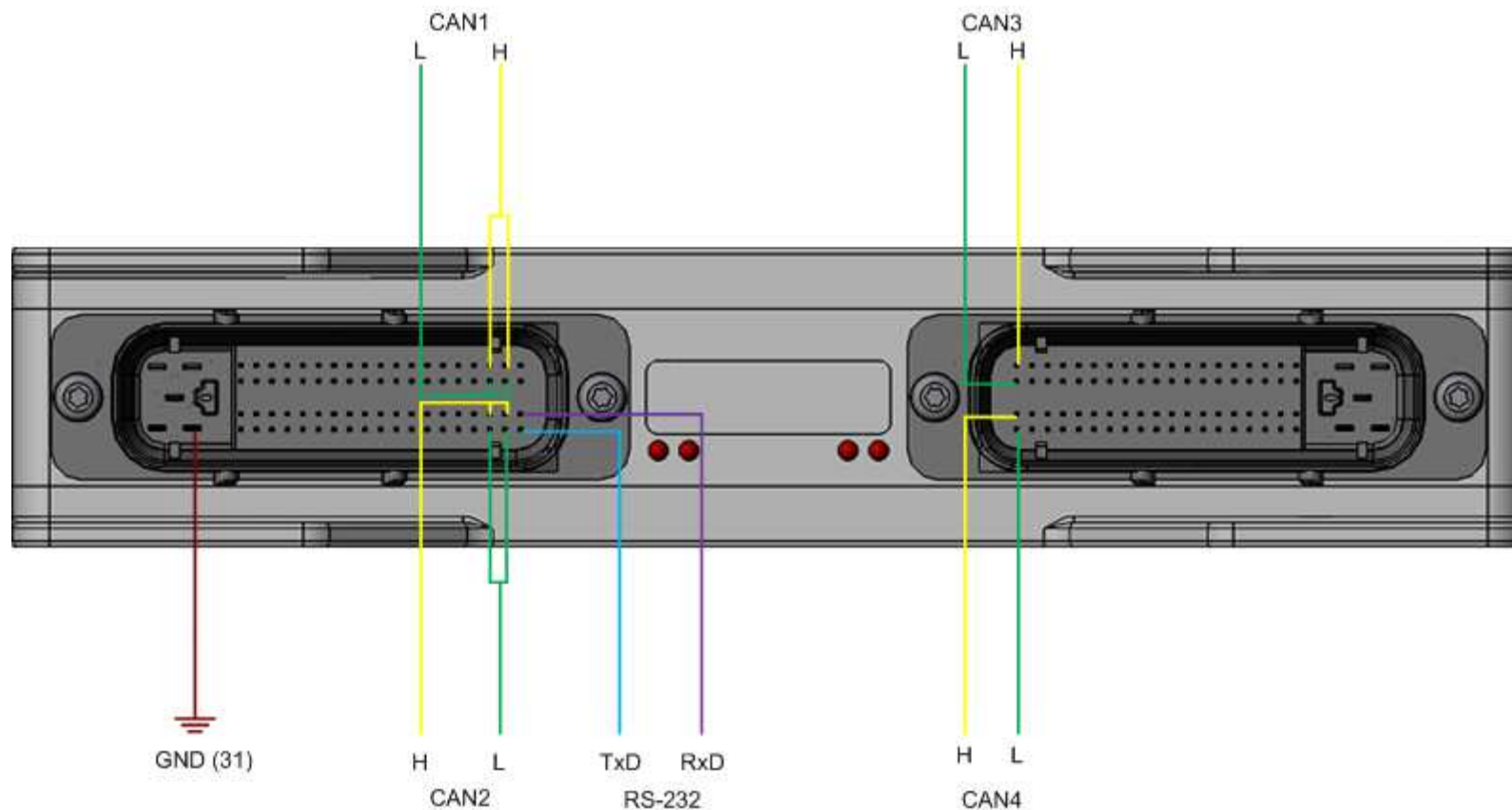
Power connection wiring



Notes:

1. Minimal connections for operating are D+, +UE and GND.
2. Fuse is recommended if short circuit to U_{Bat} cannot be excluded.
Attention: Applying this fuse can result in minor precision of applied sensors!
3. +UB1 is needed when 4A-High side outputs are used.
4. +UB2 is needed when 2.5A-High side outputs 1 to 8 are used.
5. +UB3 is needed when 2.5A-High side outputs 9 to 16 are used.

Communication wiring



Notes:

1. Default CAN-Interface for KEFEX-Winflash is CAN1.
2. Standard mode for RS-232 is a three line serial connection (RxD, TxD, Gnd) with no handshake (neither hardware nor software).
3. **Avoid short circuits on TxD-lines to GND or +U_{Bat} under all circumstances!!!**

see also:

- [Pin assignment of TUX and BOB test environment](#)
- [TUX and adapter cable](#)

Technical data
Block diagram
Pin assignment grouped by function
Pin assignment sorted by pin number
Applicable connectors
Wiring diagrams
LED assignment
Mounting options
Mechanical dimensions