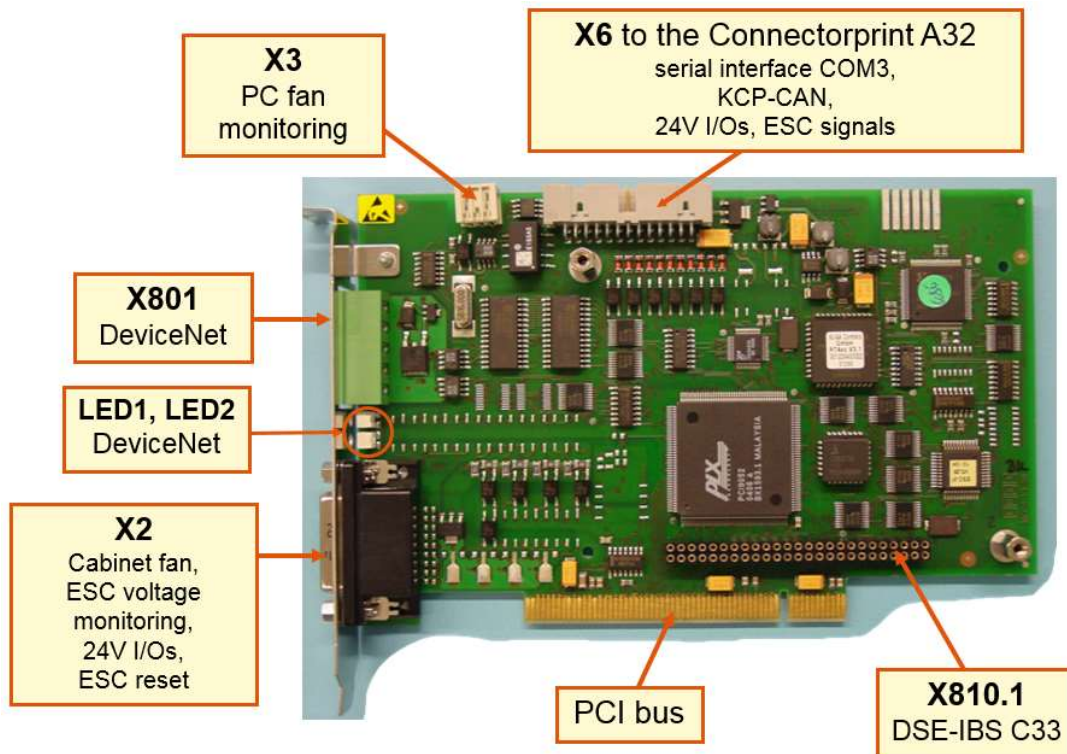


KRC2 MFC (Multi Function Card)

In the KR C2edition2005 there are two distinct variants of the MFC3:
The MFC description is below:

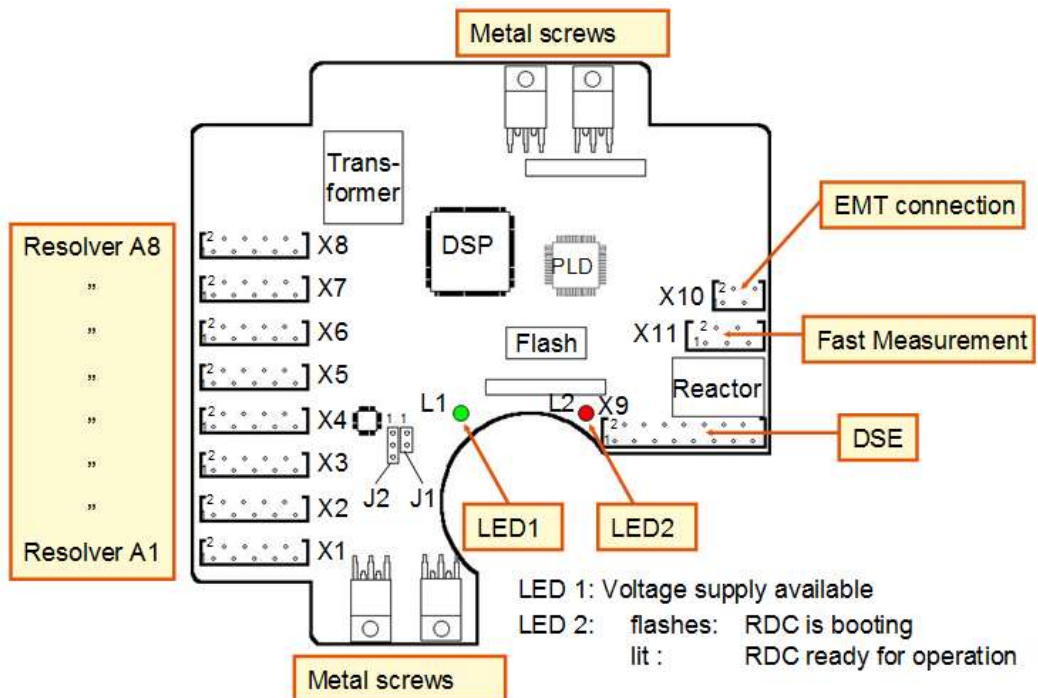
- Article no.: 00-128-358
- Designed as PCI bus card
- DeviceNet/CAN bus connection for slaves with max. 512 I/Os
- Serial interface (COM3) via Connectorprint A32
- Interface between the KCP and the PC via CAN bus
- Interface between the ESC circuit and the PC
- Monitoring of the ESC voltage
- Accommodation of max. two DSE-IBS cards (for max.12 robot axes)
- Generation of NMI (*Non-Maskable Interrupts*) for switching between WindowsXPe and VxWorks
- Monitoring of the PC fan
- Monitoring of the internal cabinet fan

For the connections please see below:



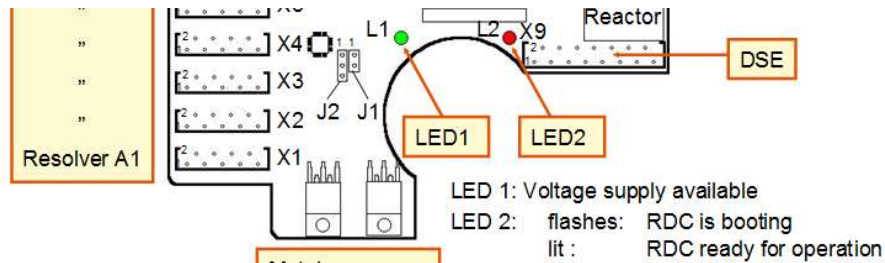
Please contact us for further information.

Below is a diagram of the various connectors:



For diagnostics there are a number of checks that can be done to establish whether the problem lies with the card itself or the resolver.

For the two LEDs see below:



To measure the resistance of the resolver windings see below:

Pin	Assignment
1	KTY
2	KTY
3	Ground
4	R2
5	R1
6	S4
7	S2
8	S3
9	S1

Pin-Pin	Resistance / Ω
1-2	588 Ω at 25 $^{\circ}\text{C}$ 1000 Ω at 100 $^{\circ}\text{C}$
4-5	20-100 Ω , depending on the type of motor
6-7	30-200 Ω , depending on the type of motor
8-9	30-200 Ω , depending on the type of motor

For removal of the KSD see the guide below:

The RDC is housed in a small enclosure fixed to the base of the robot

To gain access remove the four screws holding the lid in place



To protect against static discharge all work on the RDC must be carried out with a well grounded earth strap



Disconnect the 6 connectors from the six axes (each one is labeled. Axis 6 this end

Pay careful attention to gently push the plastic tongue to release the connector before pulling the connector from it's socket

Also remove the mastering tool connection and the connector leading to the resolver feedback cable to the robot panel



Please contact us for further information.