

2.7 Connectors on the PFEA113

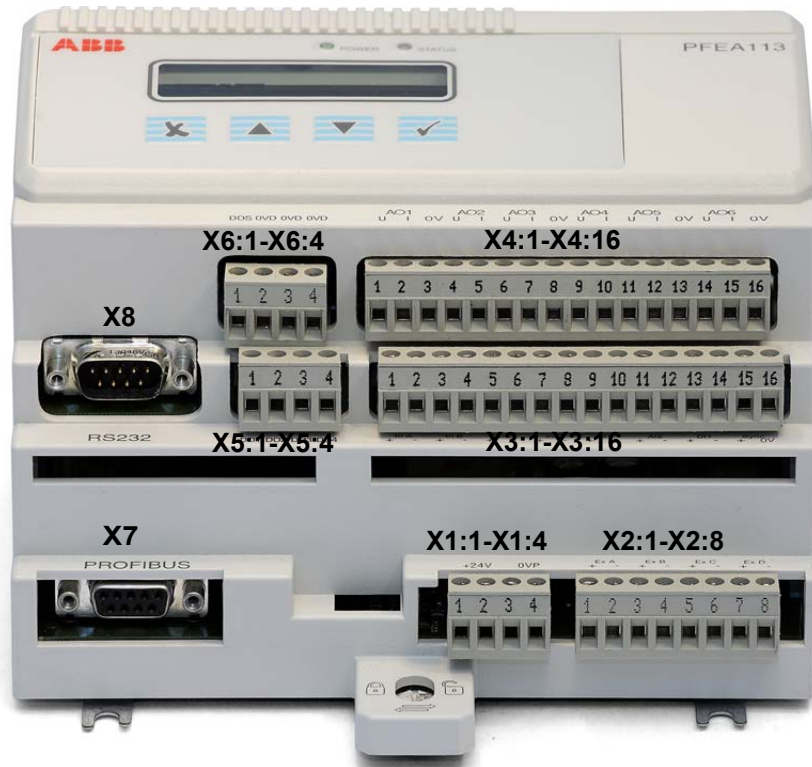


Figure 2-11. Connectors on the PFEA113

Table 2-3. Description of PFEA113 connectors

Connector number	Description
X1:1-X1:4	24 V Supply connections (X1:1-X1:2), 0V (X1:3-X1:4)
X2:1-X2:8	Connectors for the wiring to the load cell excitation circuits
X3:1-X3:16	X3:1-X3:8 Connectors with signals from load cells. X3:9-X3:12 are AI1 and AI2. X3:13-X3:14 is DI1. X3:15-X3:16 is the Synchronization Signal Input.
X4:1-X4:16	Analog outputs
X5:1-X5:4	Digital outputs
X6:1-X6:4	Digital out supply (1), and three OVD
X7	PROFIBUS D-Sub connector
X8	RS232 Connector

2.8 Connecting the Load Cells

Information for connecting the load cells is given in the appendix for each load cell type, see table below.

Type of load cell	Cable diagrams in Appendix
PFCL 301E	B
PFTL 301E	C
PFRL 101	D
PFTL 101	E
PFCL 201	F
PFTL 201	G

2.9 Connecting Analog Outputs (AO1-AO6)

There are six analog outputs. Each output can be set either for voltage or current. Each analog output from the digital/analog converter is a voltage. This is split into two outputs, one of which is converted into a current output and the other kept as voltage. This is illustrated in Figure 2-12 where for example X4:1 is the voltage output and X4:2 is the current output.

The allowed load current of the voltage output is max. 5 mA.

The allowed load resistance of the current output is max. 550 Ω.

Figure 2-12 shows AO1 connected for voltage output and AO2 for current output.

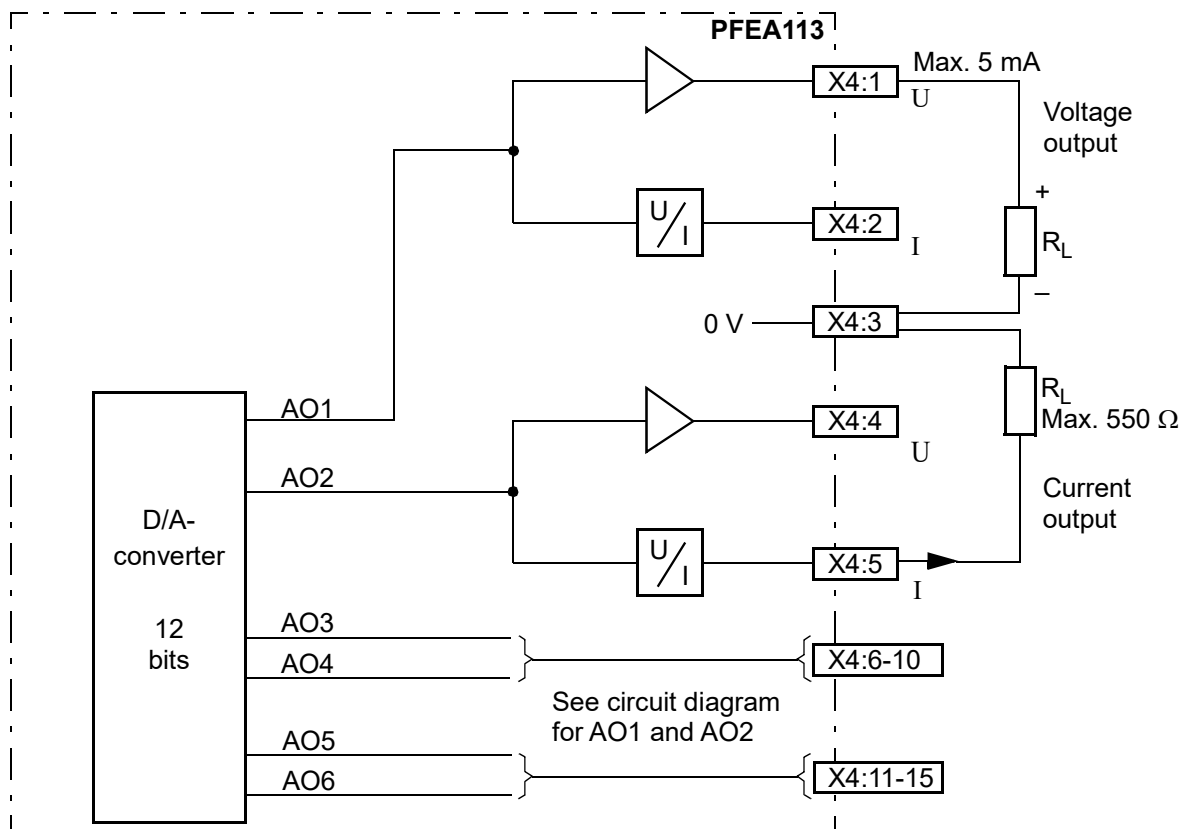


Figure 2-12. Connecting Analog Outputs

2.10 Connecting Analog Inputs (AI1-AI2)

The two analog inputs, AI1 and AI2, are differential inputs with a signal range of 0-10 V.

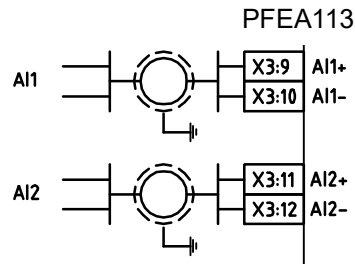


Figure 2-13. Connecting Analog Inputs

2.11 Connecting Digital Outputs (DO1-DO4)

The four digital outputs, DO1-DO4, are insulated as a group. See Figure 2-14.

The digital outputs are current driving and can be supplied from an external 24 V DC or from the 24 V DC supply used for PFEA113.

The current at state “1” is maximum 0.1 A per output.

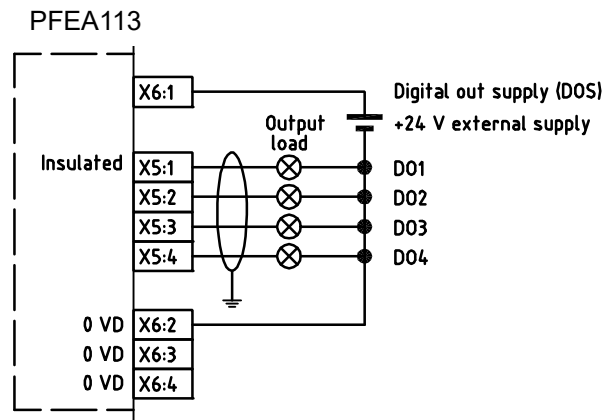


Figure 2-14. Connecting Digital Outputs

2.12 Connecting the Digital Input (DI)

The digital input is a differential input with the following data:

Passive: -36 V to +5 V

Active: >16 V (maximum +36 V)

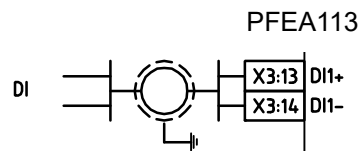


Figure 2-15. Connecting the Digital Input