# FETA-01 adapter board
Installation guide

Installation instruction

FETA-board provides screw terminal block connection to the D-sub connectors of FEN-01, -11 or -21 encoder interface module. Terminal block X41 connects to the 9-pin D-sub connector of the FEN-module. Terminal blocks X32 and X42 connect to the 15-pin D-sub connector.

1. Hang on the hooks (a) of the FETA-board to the FEN-module.
2. Swing the board down to engage the connectors (b).
3. Tighten the four screws (c), 0.5 N·m, to fix the board to the module.
4. Make the connections according to the connection tables.
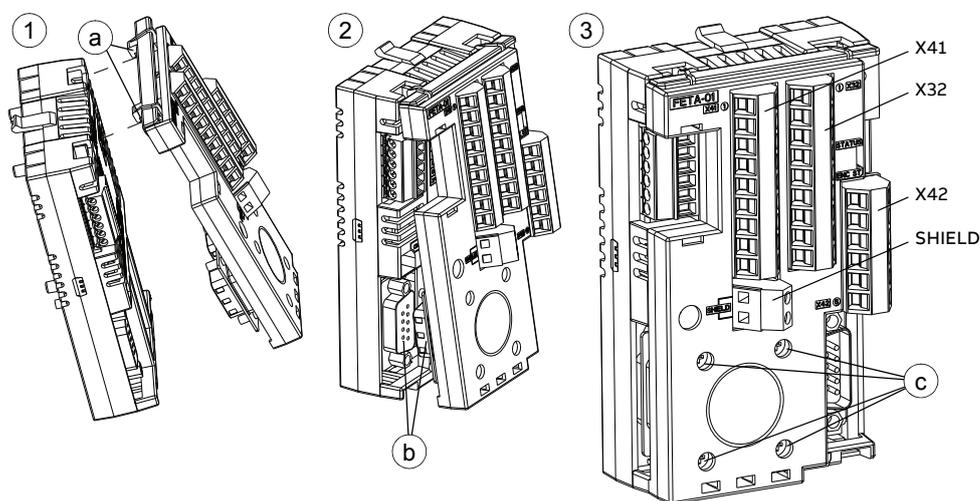
To remove the FETA-board from the FEN-module, unscrew the four screws (c), then use a screwdriver to carefully lift the end of the board to disengage the connectors (b).
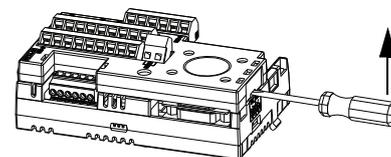
Shield connections in X51

- Connect the shield wires of the encoder cable to terminal X51 (SHIELD).

Signal connections for TTL encoder

Terminal X41 pin	1	2	3	4	5	6	7	8	9
Signal	A+	A-	B+	B-	Z+	Z-	TTL_VCC	TTL_COM	TTL_COM

Note: Default voltages for TTL are +5.5 V or +24 V. To use +8 V operating voltage for the TTL encoder, remove the TTL jumpers from the FEN voltage selection, and assemble the voltage selection jumper to ABS +8 V. Connect the wire from FETA-01 ABS_VCC X42 (5) to TTL_VCC X41 (7).

Signal connections for absolute encoder configurations

Terminal X32 pin	1	2	3	4	5	6	7	8	9
Signal	SIN+	SIN-	COS+	COS-	Z+, DATA+	Z-, DATA-	SIN_CM+, CLK+	SIN_CM-, CLK-	ABS_COM

Terminal X42 pin	1	2	3	4	5	6
Signal	PTC/KTY	PTC/KTY_0V	COS_CM+	COS_CM-	ABS_VCC	ABS_COM

Signal connections for resolver configurations

Terminal X32 pin	1	2	3	4	5	6	7	8	9
Signal	SIN+	SIN-	COS+	COS-			Excitation+	Excitation-	

Terminal X42 pin	1	2	3	4	5	6
Signal	PTC/KTY	PTC/KTY_0V	COM			

Signal connections for TTL+ configurations

Note: The routing of zero pulses Z+/Z- for TTL+ are not supported via this adapter.

Terminal X32 pin	1	2	3	4	5	6	7	8	9
Signal	A-	A+	B-	B+	W+	W-	V+	V-	COM

Terminal X42 pin	1	2	3	4	5	6
Signal	PTC	U+	U-		VCC_ENC	COM

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