FDNA-01 DeviceNet adapter module
Quick installation and start-up guide

Safety instructions

⚠ **WARNING**! Obey the safety instructions of the drive. If you ignore them, injury or death, or damage to the equipment can occur.

Mechanical installation

1. Pull out the lock.

2. Install the module carefully to an option module slot of the drive. See the drive hardware manual.

3. Push in the lock.

4. Tighten the screw to torque 0.8 N·m using a Torx TX10 screwdriver.
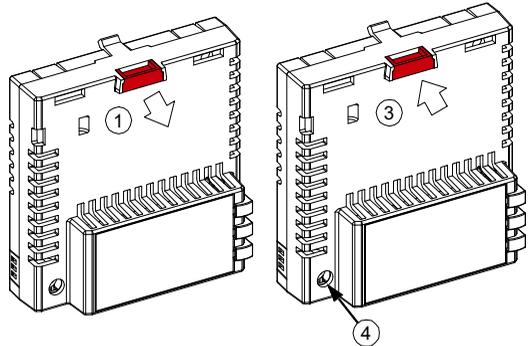
⚠ **WARNING**! Do not use excessive force, or leave the screw too loose. Over-tightening can damage the screw or module. A loose screw decreases the EMC performance, and can cause an operation failure.

Electrical installation

▣ Layout of the module
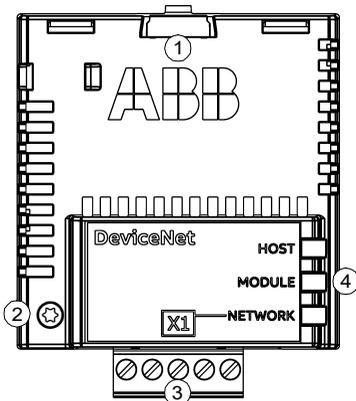
No.	Description
1	Lock
2	Mounting and grounding screw
3	Bus connector [X1]
4	Diagnostic LEDs

Pin allocation for [X1]

Pin		Description
1	V-	Network power supply ground (0V DC)
2	CAN_L	CAN_L bus line
3	SHLD	Network cable shield
4	CAN_H	CAN_H bus line
5	V+	Network power supply source (24V DC)

Bus termination

The module does not provide bus termination. The DeviceNet network should be terminated at both ends of the trunk cable with a 121 ohm, ¼ W, 1% metal film resistor.

Connect the resistor between the two signal wires (CAN_H, CAN_L) on the DeviceNet cable, as shown in this figure.
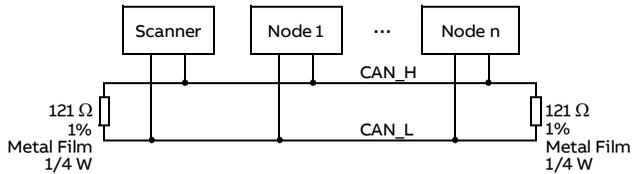
Start-up

To control the drive with the adapter module, set at least the basic parameters listed in the table below. For full parameter descriptions, refer to the adapter module's user manual or to the drive's firmware manual.

Basic parameter settings

Index	Name	Value
20.01	Ext1 commands	Fieldbus A
22.11	Speed ref1 source	FBA A ref 1
28.11	Frequency ref1 source	FBA A ref 1
50.01	FBA A enable	Enable (or select the option slot in which the module is installed). This activates the communication module. The HOST LED becomes green.
50.02	FBA A comm loss func	Fault
51.02	MAC ID	Set the MAC ID number for the drive.

To take the settings into use, validate and refresh the parameters with parameter 51.27 FBA par refresh.

Further information

See the latest version of FDNA-01 DeviceNet adapter module user's manual (3AFE68573360 [English]) in ABB library (www.abb.com/drives/documents).

FDNA-01 manual

For more information on ABB fieldbus options and protocols, see the fieldbus communications web page (new.abb.com/drives/connectivity/fieldbus-connectivity).

Fieldbus communications web page

abb.com/drives

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