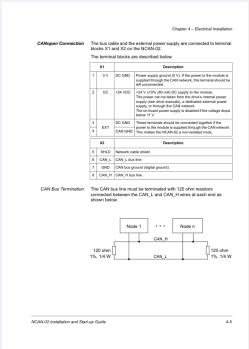
FIELD INSTALLATION QUICK GUIDE

Installation Instructions

NCAN-02C

CANopen Fieldbus Adapter


Chapter 4 – Electrical Installation

CANopen Connection The bus cable and the external power supply are connected to terminal blocks X1 and X2 on the NCAN-02.

The terminal blocks are described below.

X1			Description
1	0 V	DC GND	Power supply ground (0 V). If the power to the module is supplied through the CAN network, this terminal should be left unconnected.
2	24 V	+24 VDC	+24 V ±10% (80 mA) DC supply to the module. The power can be taken from the drive's internal power supply or from an external 24 V DC isolated supply, or through the CAN network. Note: If the 24 V power supply is disabled the voltage drops below 18 V.
3	EXT	DC GND	These terminals should be connected together if the power to the module is supplied through the CAN network. This makes the NCAN-02 a non-isolated node.
4		CAN GND	

X2		Description
6	SHLD	Network cable shield.
6	CAN_L	CAN_L bus line.
7	GND	CAN bus ground (digital ground).
8	CAN_H	CAN_H bus line.

CAN Bus Termination The CAN bus line must be terminated with 120 ohm resistors connected between the CAN_L and CAN_H wires at each end as shown below.

NCAN-02 Installation and Start-up Guide 4-5

PRODUCT	NCAN-02C
FAMILY	ABB Drives CANopen
FUNCTION	CANopen Fieldbus Adapter
STATUS	Verify exact installed equipment

Prepared by Amikon Limited from ABB documentation. This guide supplements the complete manufacturer manual and site procedure.

01 CONFIRM THE ORDERED CONFIGURATION

Network protocol	CANopen
Maximum network nodes	128
Maximum bit rate	1 Mbit/s
Minimum bit rate	10 kbit/s
Bus termination	120 Ω, 0.25 W metal film
Network topology	Multidrop

02 PREPARATION AND CONNECTION

- Confirm the complete NCAN-02C article number and installed revision.
- Isolate applicable electrical and process energy using the approved site procedure.
- Record every connector, cable, terminal, shield and protective-earth connection before removal.
- Install without forcing keyed parts, then secure terminals, latches, fasteners and cable supports.

03

OFFICIAL INSTALLATION REFERENCE

CANopen Connection

The bus cable and the external power supply are connected to terminal blocks X1 and X2 on the NCAN-02.

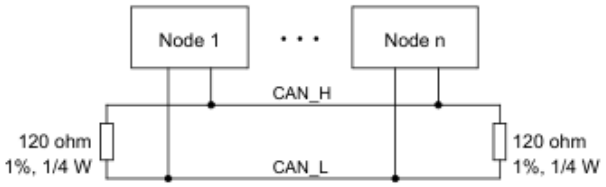
The terminal blocks are described below.

X1		Description	
1	0 V	DC GND	Power supply ground (0 V). If the power to the module is supplied through the CAN network, this terminal should be left unconnected.
2	UC	+24 VDC	+24 V ±10% (80 mA) DC supply to the module. The power can be taken from the drive's internal power supply (see drive manuals), a dedicated external power supply, or through the CAN network. The on-board power supply is disabled if the voltage drops below 11 V.
3	EXT	DC GND	These terminals should be connected together if the power to the module is supplied through the CAN network. This makes the NCAN-02 a non-isolated node.
4		CAN GND	

X2		Description
5	SHLD	Network cable shield.
6	CAN_L	CAN_L bus line.
7	GND	CAN bus ground (digital ground).
8	CAN_H	CAN_H bus line.

CAN Bus Termination

The CAN bus line must be terminated with 120 ohm resistors connected between the CAN_L and CAN_H wires at each end as shown below.



Official manufacturer page reproduced at its original aspect ratio.

04 COMMISSIONING CHECKS

01	Confirm product identity and mechanical seating.
02	Verify the documented supply before energising.
03	Inspect polarity, shielding and protective-earth connections.
04	Restore power in the approved sequence and observe status indications.
05	Test each connected input, output or communication path.
06	Record diagnostics and functional-test results before return to service.

05 CONTROLLED DOCUMENT

Official source	ABB 3BFE 64254154 Rev B, chapters 2–4 and Appendix B; ACS800-67 +G314 hardware manual, p. 34
Product record	NCAN-02C
Manufacturer	ABB
Warranty	12 months from AMIKON
Support	INFO@AMIKON.CN

AMIKON PRODUCT SUPPORT

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