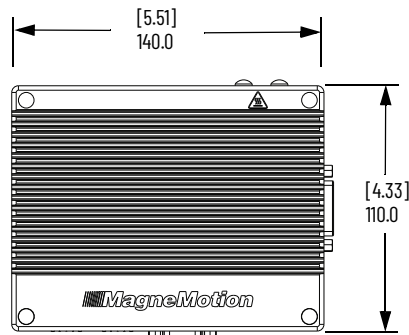


## Technical Data

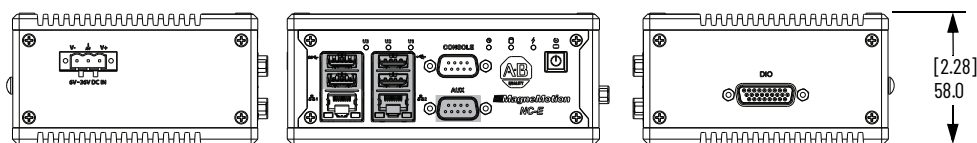
Original Instructions

# Node Controller NC-E Series B

Catalog Number: MMI-NC-ENET-01. Dimensions are in millimeters [inches].



**NOTE:** Connectors depicted in gray are not used.



- Manages commands and responses from the host controller to any Ethernet enabled QuickStick® motor.
- Coordinates vehicle movements.
- Tracks errors in the system.
- Programs and configures each motor.
- Supports up to 16 nodes based on configuration.
- Digital I/O (8 bits in/8 bits out) available for user-supplied external devices.
- CE Certified, UL Recognized. See [rok.auto/pec](http://rok.auto/pec) for certification information.
- Mounting kit supplied for DIN or rail/wall mounting.

### Physical Specifications

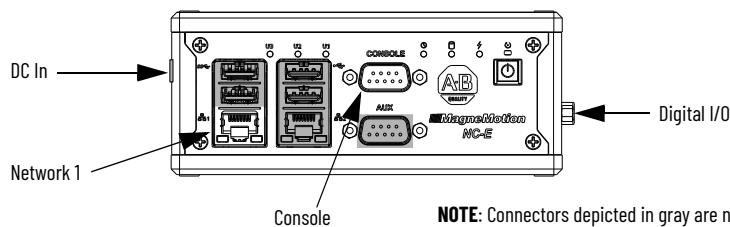
<b>Dimensions (1)</b>	140.0 W x 110.0 L x 58.0 H [5.51 W x 4.33 L x 2.28 H]
<b>Weight</b>	0.95 kg [2.06 lb]

(1) All dimensions are millimeters [inches].

### Environmental Specifications

<b>Ambient Temperature</b>	0 °C...50 °C [32 °F...122 °F]
<b>Relative Humidity</b>	~95% @ 40 °C [104 °F] (noncondensing)
<b>Power Dissipation</b>	40 W max

### Electrical Specifications



<b>Network</b>	Standard 10/100/1000BASE-TX (auto-MDIX, auto-negotiation), Ethernet (RJ45, Socket). Only Ethernet 1 is active.
<b>Power Rating</b>	6...36V DC, 40 W (3P pluggable connector with latch (GND, V-, V+) (1)).
<b>Console</b>	For connection of user-supplied terminal for setting the initial IP address (DE-9, Plug).
<b>Digital I/O</b>	8 optically isolated digital input bits and 8 optically isolated digital output bits (DA-26, Socket).

(1) Rockwell Automation requires grounding the NC-E Series B through the chassis ground connection on the power connector.

For pinout configuration of NC-E Series A and B, see the MagneMotion Node Controller Interface User Manual, publication [MMI-UM001](http://MMI-UM001).

## Additional Resources

These documents contain additional information concerning related products from Rockwell Automation. You can view or download publications at [rok.auto/literature](http://rok.auto/literature).

Resource	Description
MagneMotion QuickStick and QuickStick HT Design Guide, publication <a href="#">MMI-RM001</a>	This manual explains how to design and configure the track layout and QuickStick® transport system.
MagneMotion System Configurator User Manual, publication <a href="#">MMI-UM046</a>	This manual explains how to use the QuickStick Configurator to create and modify the Node Controller Configuration File (Configuration File) for the QuickStick (QS) transport system.
MagneMotion Node Controller Interface User Manual, publication <a href="#">MMI-UM001</a>	This manual explains how to use the supplied interfaces to configure and administer node controllers that are used with transport systems. This manual also provides basic troubleshooting information.
MagneMotion LSM Synchronization Option User Manual, publication <a href="#">MMI-UM005</a>	This manual explains how to install, operate, and maintain the LSM Synchronization Option for use with transport systems.
MagneMotion NCHost TCP/IP Interface Utility User Manual, publication <a href="#">MMI-UM010</a>	This manual explains how to use the NCHost TCP/IP Interface Utility to run a transport system for testing and debugging. This manual also explains how to develop Demo Scripts to automate vehicle motion for that testing.
MagneMotion Host Controller TCP/IP Communication Protocol User Manual, publication <a href="#">MMI-UM003</a>	These manuals describe the communication protocols between the high level controller and a host controller. These manuals also provide basic troubleshooting information.
MagneMotion Host Controller EtherNet/IP Communication Protocol User Manual, publication <a href="#">MMI-UM004</a>	
MagneMotion Host Controller Communication Protocols User Manual, publication <a href="#">MMI-UM100</a>	This manual describes the communication protocols between the high level controller and a host controller. This manual also provides basic troubleshooting information.
MagneMover LITE User Manual, publication <a href="#">MMI-UM002</a>	This manual explains how to install, operate, and maintain the MagneMover® LITE™ transport system. This manual also provides information about basic troubleshooting.
QuickStick 100 User Manual, publication <a href="#">MMI-UM006</a>	This manual explains how to install, operate, and maintain the QuickStick 100 transport system. This manual also provides information about basic troubleshooting.
QuickStick 150 User Manual, publication <a href="#">MMI-UM047</a>	This manual explains how to install, operate, and maintain the QuickStick 150 motors and magnet arrays. This manual also provides information about basic troubleshooting.
QuickStick® HT™ User Manual, publication <a href="#">MMI-UM007</a>	This manual explains how to install, operate, and maintain the QuickStick High Thrust (QSHT) transport system. This manual also provides information about basic troubleshooting.

## Rockwell Automation Support

Use these resources to access support information.

<b>Technical Support Center</b>	Find help with how-to videos, FAQs, chat, user forums, Knowledgebase, and product notification updates.	<a href="http://rok.auto/support">rok.auto/support</a>
<b>Local Technical Support Phone Numbers</b>	Locate the telephone number for your country.	<a href="http://rok.auto/phonesupport">rok.auto/phonesupport</a>
<b>Technical Documentation Center</b>	Quickly access and download technical specifications, installation instructions, and user manuals.	<a href="http://rok.auto/techdocs">rok.auto/techdocs</a>
<b>Literature Library</b>	Find installation instructions, manuals, brochures, and technical data publications.	<a href="http://rok.auto/literature">rok.auto/literature</a>
<b>Product Compatibility and Download Center (PCDC)</b>	Download firmware, associated files (such as AOP, EDS, and DTM), and access product release notes.	<a href="http://rok.auto/pcdc">rok.auto/pcdc</a>

## Documentation Feedback

Your comments help us serve your documentation needs better. If you have any suggestions on how to improve our content, complete the form at [rok.auto/docfeedback](http://rok.auto/docfeedback).





## Waste Electrical and Electronic Equipment (WEEE)



At the end of life, this equipment should be collected separately from any unsorted municipal waste.

Rockwell Automation maintains current product environmental compliance information on its website at [rok.auto/pec](http://rok.auto/pec).

Rockwell Otomasyon Ticaret A.Ş. Kar Plaza İş Merkezi E Blok Kat:6 34752, İçerenköy, İstanbul, Tel: +90 (216) 5698400 EEE Yönetmeliğine Uygundur

Connect with us.    

**rockwellautomation.com** — expanding **human possibility**®

AMERICAS: Rockwell Automation, 1201 South Second Street, Milwaukee, WI 53204-2496 USA, Tel: (1) 414.382.2000, Fax: (1) 414.382.4444

EUROPE/MIDDLE EAST/AFRICA: Rockwell Automation NV, Pegasus Park, De Kleetlaan 12a, 1831 Diegem, Belgium, Tel: (32) 2 663 0600, Fax: (32) 2 663 0640

ASIA PACIFIC: Rockwell Automation, Level 14, Core F, Cyberport 3, 100 Cyberport Road, Hong Kong, Tel: (852) 2887 4788, Fax: (852) 2508 1846

UNITED KINGDOM: Rockwell Automation Ltd. Pitfield, Kiln Farm Milton Keynes, MK11 3DR, United Kingdom, Tel: (44)(1908) 838-800, Fax: (44)(1908) 261-917

Allen-Bradley, expanding human possibility, MagneMotion, MagneMover LITE, QuickStick, QuickStick HT, and Rockwell Automation are trademarks of Rockwell Automation, Inc. Trademarks not belonging to Rockwell Automation are property of their respective companies.