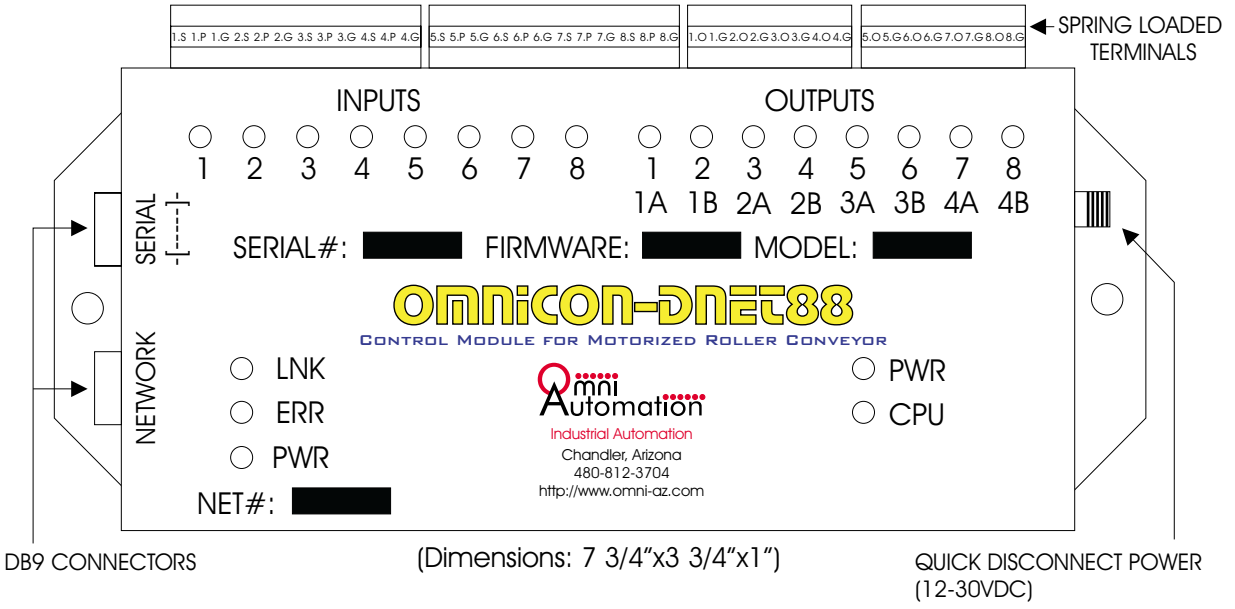
Omni Automation
Industrial Automation

OMNICON-DNET88

PRODUCT DESCRIPTION AND INSTALLATION SPECIFICATIONS.

The OmniCon-DNET88 is a programmable logic device for motorized roller conveyor and motor control applications. The OmniCon-DNET88 is equipped with 8 sourcing inputs and 8 open collector outputs. The OmniCon-DNET88 communicates via the DeviceNet protocol, with standard DeviceNet communication cable . The application programs for the controller are developed and downloaded with SuperLogic, a ladder based programming software. Similarly, the device parameters are also configured through the SuperLogic software.



Status LEDs

INPUTS(1-8): If LED is illuminated then OmniCon-DNET88 is receiving an "ON" input state.
OUTPUTS(1-8): If LED is illuminated then OmniCon-DNET88 is enabling an "ON" output state..
PWR: If LED is illuminated then OmniCon-DNET88 is receiving power.
CPU: If LED is blinking rapidly then OmniCon-DNET88 is in "RUN" mode. If LED is blinking in heartbeat rhythm then the OmniCon-DNET88 is in "PROGRAM" mode.
LNK: If LED blinks then the OmniCon-DNET88 has received or transmitted a message via the network.
ERR: If LED blinks or is illuminated then a network error condition exists.
PWR: If LED is illuminated then OmniCon-DNET88 is receiving CAN power.

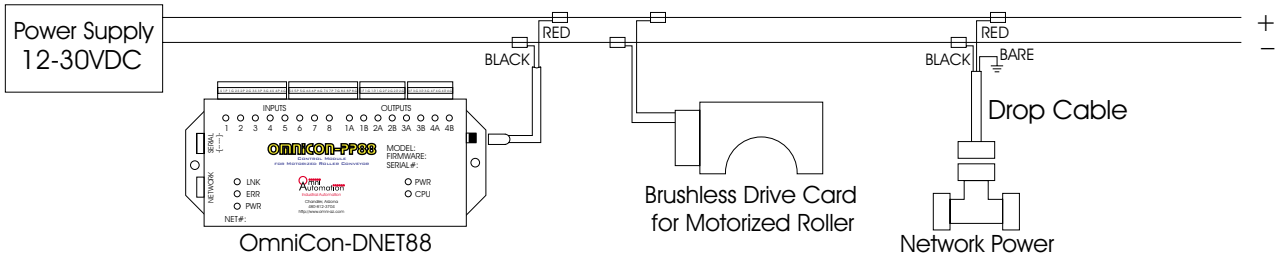
Configuration and Programming

There are two ways to configure and program the OmniCon-DNET88 controller:

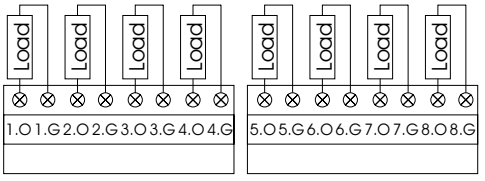
1. Through the Serial Port, located on the side, with a modem cable and a computer running the SuperLogic software.
2. Through the Network Port, over the DeviceNet network with a computer utilizing the Omni PCI network card and the SuperLogic software.

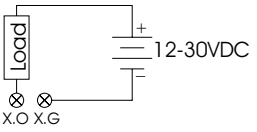
**The default Network ID is 63, the Network ID is configureable through the SuperLogic software.

Power Bus Wiring Connections



Output Wiring Diagrams





Alternate output connection using external power supply.

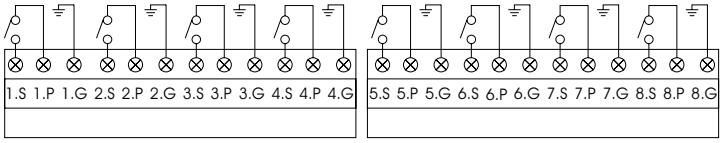
Terminal Labeling

X.O=Output to Device
X.G=GND

*Where "X" is the corresponding to output or zone number.

18 to 24 AWG Recommended for Spring Loaded Input/Output Terminals.
Terminal Labels can be changed to reflect user's application.

Input Wiring Diagrams



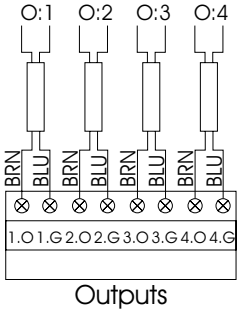
Terminal Labeling

X.S=Sourcing Signal
X.P=+24VDC
X.G=GND

*Where "X" is the corresponding to input or zone number.

18 to 24 AWG Recommended for Spring Loaded Input/Output Terminals.
Terminal Labels can be changed to reflect user's application.

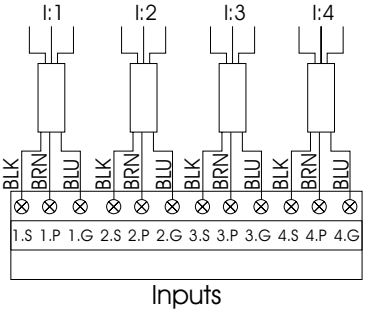
Standard Omni Automation Cable Connections



Outputs

Terminals

X.O = BRN = Output X.O
X.G = BLU = GND

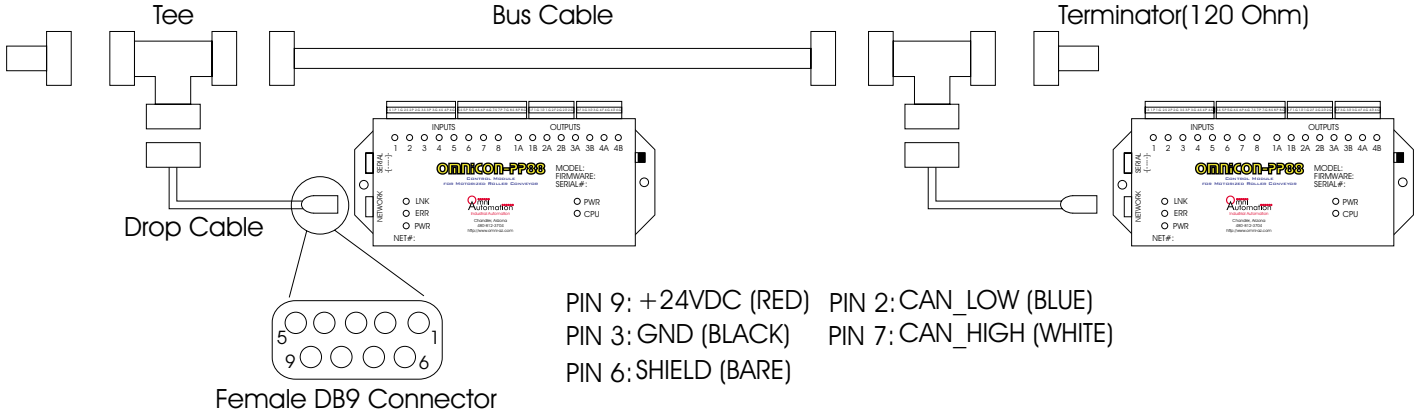


Inputs

Terminals

X.S = BLK= SIGNAL
X.P = BRN = +24VDC
X.G = BLU = GND

Network Wiring Connections



Female DB9 Connector

PIN 9: +24VDC (RED)
PIN 3: GND (BLACK)
PIN 6: SHIELD (BARE)
PIN 2: CAN_LOW (BLUE)
PIN 7: CAN_HIGH (WHITE)

Technical Data

OmniCon-DNET88 Specifications	
Voltage Range	12-30 VDC
Current Consumption	210 mA @ 24VDC (No Load)
Operating Temp.	-30°C to 70°C
Outputs	8 NPN Open Collector Outputs
Max. Output Current	0.5A
Inputs	8 Normally Open(Sourcing Sensor Required)
Input Signal Current	0.1mA Nominal

Network Specifications	
Network Voltage Range	12-30 VDC
Network Baud Rate	125, 250, or 500 kbps
Network Protocol	DeviceNet
Max. Nodes per Channel	64
Max Network length	1,000ft
Max Channels	4