

Models
DNET115 115 Volt A.C. Actuators

Application

For on/off or positioning control of motorized valves. DeviceNet™ is a type of communication network that allows up to 63 field devices to be linked together with a single five-conductor cable. DeviceNet™ is a product of Allen-Bradley and is an open, non-proprietary, bus network. Typically, a DeviceNet™ system is used with the Allen-Bradley PLC5 and SLC series of programmable logic controllers. A standard DeviceNet™ Scanner interface is available for both types. Devices in the field are connected via a drop line to a 5 conductor trunk-line that is then routed to the scanner card.

Features

- Provides open/stop/close or positioning control with limit switch status feedback
- Provides instantaneous motor reversal protection
- Command and end-of-travel verification alarm
- Conforms to ODVA standard
- Easy-to-see LED indicators for all control outputs, status inputs and diagnostic alarm
- ESD functions for 'go open', 'stay put', or 'go closed'

Specifications

Hardware Specifications

Supply Power: 2W @ 24VDC
Operating Temperature: -20°C – 70°C
Storage Temperature: -40°C – 80°C
Humidity: 90% Non Condensing
Solid State Outputs: (2) Isolated 600VAC 15A
Digital Inputs: (8) Dry Contacts
Analog Inputs: (2) Channels (see below)
Processor: Temic 89C51CC01
RAM: 1K
Flash: 32K
EEPROM: 32K

Serious Interfaces

One CAN 2.0 port.

Network Communication Protocols

Module Supports DeviceNet™ Group 2 Slave.

Analog Inputs Specification

Resolution: 10bit
Accuracy: 1% of FS.
Linearity: 1% of FS.
Temperature Drift: 2% of FS.
Range: 0 to 5V or 0-20mA input for AI1
 1-5K Potentiometer for the Position Feedback.

Technical Summary of DeviceNet™

Network Size: Up to 64 nodes (including scanner)
Network Length: Up to 1,640 ft. at 125 Kbps.
Data Packets: 0-8 bytes
Bus Topology: Trunkline/Dropline
Cable: 5-Conductor cable (2 for power, 2 for communication, and 1 for ground).
Thick Trunk Lines: Belden 3082A or 3083A
Thin Drop Lines: Belden 3084A or 3085A
Drop Lines: Max. drop length is 20 ft. with cumulative drop length of 512 ft.

Repeaters: Not currently, but expected in future revisions of specifications.

Input/Output Listing

Digital Input Status:

Bit 0	Communication Loss
Bit 1	Reserved
Bit 2	Loss of Position Signal
Bit 3	Motor Stall
Bit 4	Limit Calibration Incorrect
Bit 5	Thermostat Trip
Bit 6	Manual Operation
Bit 7-15	Reserved

Environmental

Temperature Range:
 Storage: -40°C to +90°C
 Operating: -20°C to +80°C
Humidity Range:
 5% to 95% at 25°C non-condensing
Vibration:
 IEC 6B-2-6 1G @ 40-50 Hz.,
 0.012p-p @ 10-40 Hz.

Digital Output Command:

Bit 0	Open Command
Bit 1	Close Command
Bit 2	Stop Command
Bit 3	ESD Command
Bit 4-7	Future



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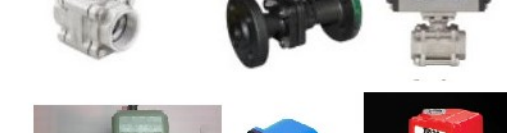
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