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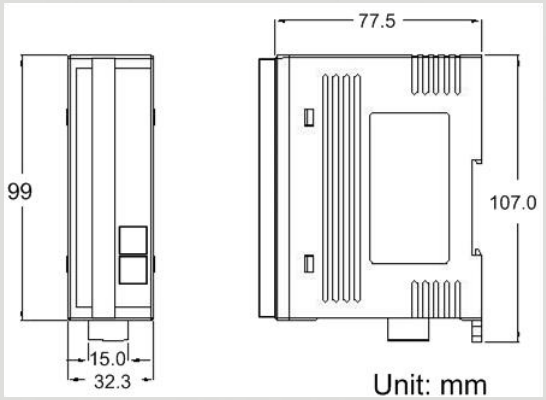
# DeviceNet Series Products

## 16-channel Isolated DI Module of DeviceNet Slave

*CAN-2053D*



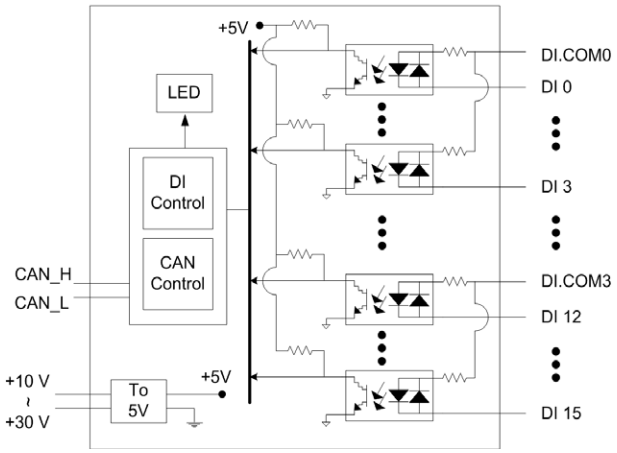

Dimensions

The CAN-2053D follows DeviceNet specification Volume I/II, Release 2.0. User can access the digital output status and set the configuration via DeviceNet EDS file. CAN-2053D has 16-channel isolated sink/source input and it can be used to various applications, such as PNP, NPN, TTL, relay contact and so forth. By the DeviceNet masters of ICP DAS, you can quickly build a DeviceNet network to approach your requirements.

## Features

- DeviceNet general I/O slave devices
- Group 2 Only Server (non UCMM-capable)
- Support Predefined Master/Slave Connection Set
- Connection supported:
  - 1 connection for Explicit Messaging
  - 1 connection for Polled I/O
  - 1 connection for Bit-Strobe I/O connection
- Provide EDS file for DeviceNet master interface
- Support Application: PNP, NPN, TTL, and Relay Contact
- ESD Protection 4 kV Contact for each channel

## Internal I/O Structure



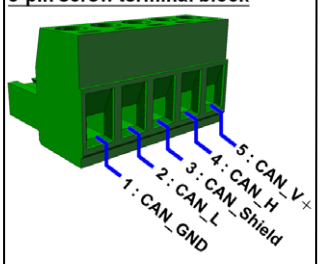

## I/O Pin & Wire Connection

| Terminal No. | Pin Assignment |
|---|---|
| 01 | DI.COM |
| 02 | DI.0 |
| 03 | DI.1 |
| 04 | DI.2 |
| 05 | DI.3 |
| 06 | DI.COM |
| 07 | DI.4 |
| 08 | DI.5 |
| 09 | DI.6 |
| 10 | DI.7 |
| 11 | DI.COM |
| 12 | DI.8 |
| 13 | DI.9 |
| 14 | DI.10 |
| 15 | DI.11 |
| 16 | DI.COM |
| 17 | DI.12 |
| 18 | DI.13 |
| 19 | DI.14 |
| 20 | DI.15 |

| Input Type | ON State LED ON Readback as 1 | OFF State LED OFF Readback as 0 |
|---|---|---|
| Relay Contact | Relay On | Relay Off |
| TTL/CMOS Logic | Voltage > 10 V | Voltage < 4 V |
| NPN Output | Open Collector On | Open Collector Off |
| PNP Output | Open Collector On | Open Collector Off |

## CAN Pin & Baud Rate Rotary

**5-pin screw terminal block**



| Switch Value | Baud Rate |
|---|---|
| 0 | 125 kbps |
| 1 | 250 kbps |
| 2 | 500 kbps |

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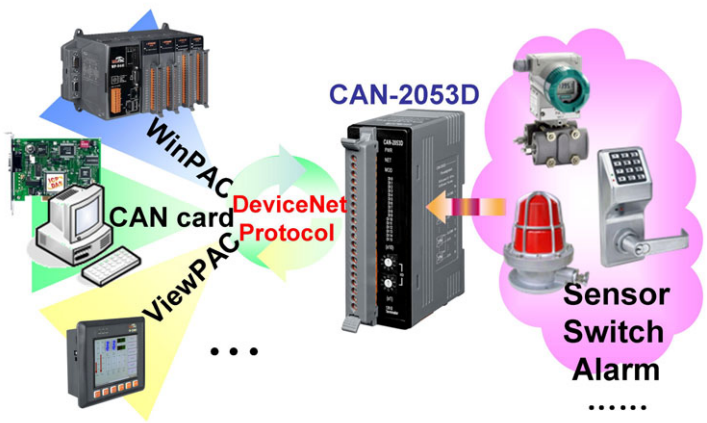
## Hardware Specifications

| | |
|---|---|
| **CAN Interface** | |
| DeviceNet Specification | Volume I, Release 2.0 & Volume II, Release 2.0, Errata 5 |
| DeviceNet subscribe | Group 2 Only Server |
| Connection supported | 1 connection for Explicit Messaging<br>1 connection for Polled I/O<br>1 connection for Bit-Strobe I/O |
| Node ID | 0 ~ 63 selected by rotary switch |
| Baud Rate (bps) | 125 kbps, 250 kbps, 500 kbps |
| Heartbeat/Shutdown message | Yes |
| Terminator Resistor | Switch for 120 Ω terminator resistor |
| **DI Interface** | |
| Channels | 16 (Sink/Source) |
| ON Voltage Level | +3.5 ~ +30 $V_{DC}$ |
| OFF Voltage Level | +1 $V_{DC}$ Max. |
| Input Impedance | 3 kΩ, 0.3 W |
| Intra-module Isolation | 3750 Vrms |
| ESD Protection | 4 kV Contact for each channel |
| **LED** | |
| Round LED | PWR LED, NET LED, MOD LED |
| I/O LED | 16 LEDs as Digital Input, and 1 LED as terminal resister indicator |
| **Power** | |
| Input range | Unregulated +10 ~ +30 $V_{DC}$ |
| Power Consumption | 1.5 W |
| **Mechanism** | |
| Installation | DIN-Rail |
| Dimensions | 32.3 mm x 99 mm x 77.5 mm (W x L x H) |
| **Environment** | |
| Operating Temp. | -25 ~ 75 ℃ |
| Storage Temp. | -30 ~ 80 ℃ |
| Humidity | 10 ~ 90% RH, non-condensing |

## Applications




## Ordering Information

| | |
|---|---|
| **CAN-2053D** | DeviceNet module of 16-channel Isolated Sink/Source Digital Input |