CAN-2054D

Digital Input and Output Module of DeviceNet Slave

Features

- DeviceNet general I/O slave devices
- Comply with DeviceNet specification Volume I, Release 2.0 & Volume II, Release 2.0, Errata 5
- 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
- Support DeviceNet heartbeat and shutdown messages
- Provide EDS file for DeviceNet master interface

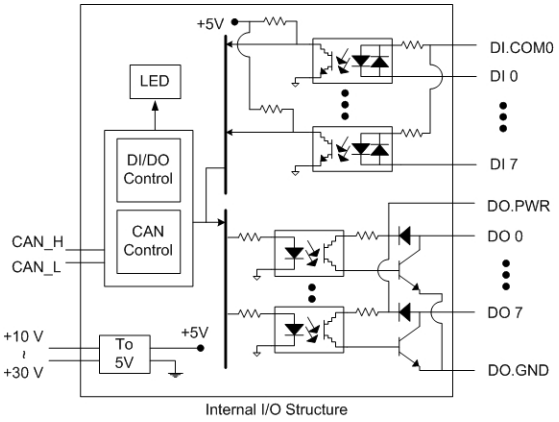
Introduction

The CAN-2054D follows DeviceNet specification Volume I/II, Release 2.0. User can access the digital I/O status and set the configuration via DeviceNet EDS file. This module has 8-channel isolated sink/source input and 8-channel isolated sink output. It can be applied 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.

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 1 connection for Polled I/O 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
Terminal Resistor	Switch for 120 Ω terminal resistor
Digital Input	
Channels	8 (Sink/Source)
On Voltage Level	+3.5 ~ +30 V_{DC}
Off Voltage Level	+1 V_{DC} Max.
Input Impedance	3 kΩ, 0.3 W
Digital Output	
Channels	8 (Sink)
Load Voltage	+5 ~ +30 V_{DC}
Output Max Load Current	700 mA per channel
Output Type	Open Collector
LED	
Round LED	PWR LED, NET LED, MOD LED
I/O LED	8 LEDs as Digital Output, 8 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

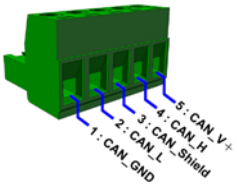
Internal I/O Structure



Internal I/O Structure

CAN Pin & Baud Rate Rotary

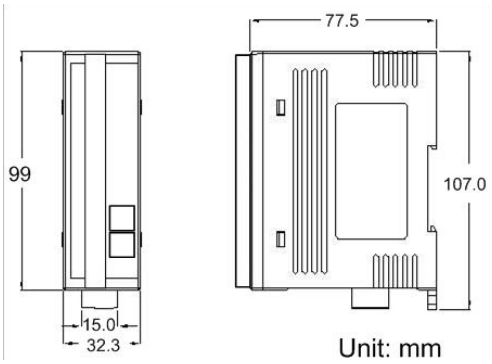
5-pin screw terminal block



Baud rate rotary switch

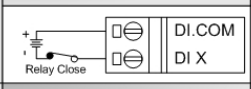
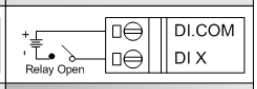
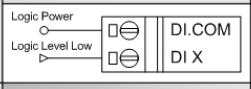
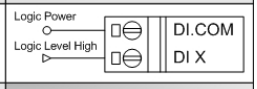
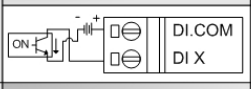
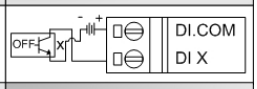
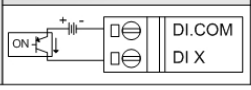
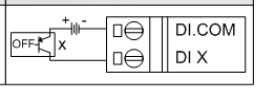
Switch Value	Baud Rate
0	125 kbps
1	250 kbps
2	500 kbps

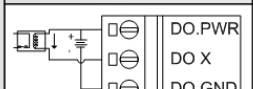
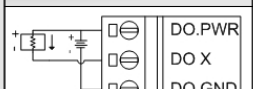
Dimensions (Units: mm)



Unit: mm

I/O Pin & Wire Connection

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 > 3.5 V	Voltage < 1 V
		
NPN Output	Open Collector On	Open Collector Off
		
PNP Output	Open Collector On	Open Collector Off
		

Output Type	ON State LED ON Readback as 1	OFF State LED OFF Readback as 0
Drive Relay	Relay On	Relay Off
		
Resistance Load		
		

Application

Ordering Information

CAN-2054D CR	The DeviceNet module of 8-channel Digital Input and 8-channel Digital Output (RoHS)