

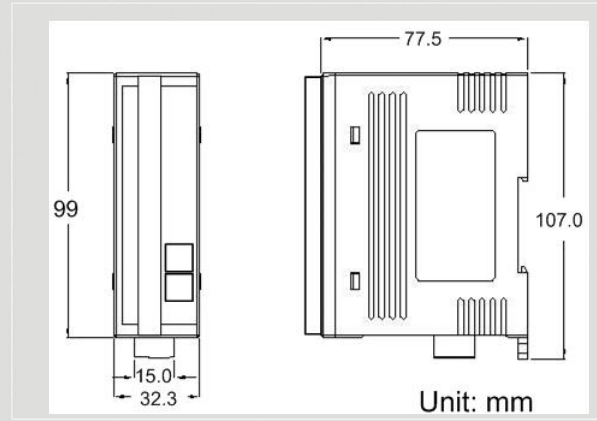


# DeviceNet Series Products

## Digital Input and Output Module of DeviceNet Slave



**CAN-2054D**



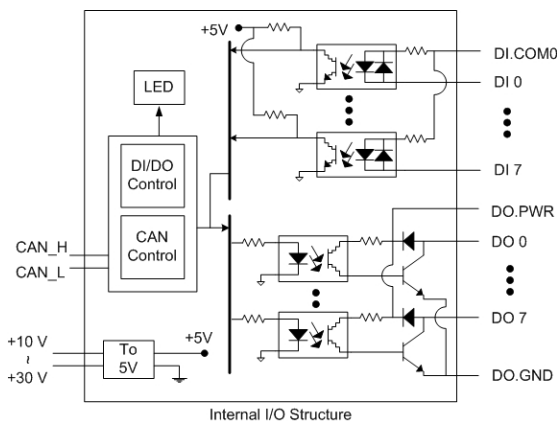
**Dimensions**

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.

### 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

### Internal I/O Structure



### I/O Pin & Wire Connection

Terminal No.	Pin Assignment	Input Type	ON State LED ON Readback as 1	OFF State LED OFF Readback as 0
01	DI.COM	Relay Contact	Relay On	Relay Off
02	DI0		DI.COM DI X	DI.COM DI X
03	DI1	TTL/CMOS Logic	Voltage > 10 V	Voltage < 4 V
04	DI2		Logic Power On Logic Level Low	Logic Power On Logic Level Low
05	DI3	NPN Output	Open Collector On	Open Collector Off
06	DI4		DI.COM DI X	DI.COM DI X
07	DI5	PNP Output	Open Collector On	Open Collector Off
08	DI6		DI.COM DI X	DI.COM DI X
09	DI7	Output Type	ON State LED ON Readback as 1	OFF State LED OFF Readback as 0
10	DO0		Relay Off	Relay On
11	DO1	Drive Relay	DO.PWR DO X DO.GND	DO.PWR DO X DO.GND
12	DO2		DO.PWR DO X DO.GND	DO.PWR DO X DO.GND
13	DO3	Resistance Load	DO.PWR DO X DO.GND	DO.PWR DO X DO.GND
14	DO4		DO.PWR DO X DO.GND	DO.PWR DO X DO.GND
15	DO5			
16	DO6			
17	DO7			
18	DO.GND			
19	DO.GND			
20	DO.PWR			

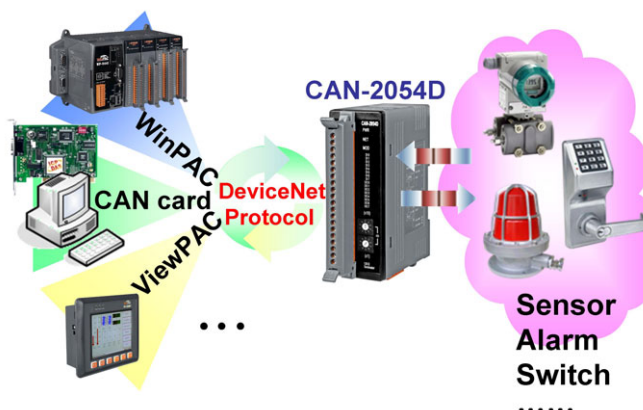
### CAN Pin & Baud Rate Rotary

CAN_V+	Pin 5	<p>Baud rate rotary switch</p>	Switch Value	Baud Rate
CAN_H	Pin 4		0	125 kbps
CAN_Shield	Pin 3		1	250 kbps
CAN_L	Pin 2		2	500 kbps
CAN_GND	Pin 1			

## 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
Terminator Resistor	Switch for 120 Ω terminator resistor
Digital Input	
Channels	8 (Sink/Source)
On Voltage Level	+3.5 ~ +30 V <sub>DC</sub>
Off Voltage Level	+1 V <sub>DC</sub> Max.
Input Impedance	3 kΩ, 0.3 W
Digital Output	
Channels	8 (Sink)
Load Voltage	+5 ~ +30 V <sub>DC</sub>
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 resistor indicator
Power	
Input range	Unregulated +10 ~ +30 V <sub>DC</sub>
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 °C
Storage Temp.	-30 ~ +80 °C
Humidity	10 ~ 90% RH, non-condensing

## Applications



## Ordering Information

**CAN-2054D**

The DeviceNet module of 8-channel Digital Input and 8-channel Digital Output