

Brad® DeviceNet* HarshIO M8 Modules

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Brad® DeviceNet* HarshIO M8 Modules are the only modules that combine IP67 protection, an extremely compact housing and full M8 connectivity

Features and Advantages

IP67-rated

Eliminates need for protective cabinet in harsh environments. Resists dust and water. Tested to withstand shock, high-vibration and high temperature. Potted with resin and uses metallic connectors.

Compact Design

Saves space on machines. Delivers full M8 connectivity (power supply + fieldbus + I/O).

ODVA certified Delivers Group 2

DeviceNet Server Slave functionality. Bus speeds up to 500 Kbps. Module addressing: 1 – 99 by rotary switches. Complete module and channel diagnostics supported via DeviceNet. Supports ADR and Quick-Connect.



DeviceNet™

Brad® DeviceNet* HarshIO M8 Module

Versatility

Accommodates several I/O module versions. Supports PNP input devices. Built-in 2-port CAN for bus wiring topology. Visible diagnostic LEDs provide maintenance personnel with the ability to easily determine I/O, module & network status

Applications

Machine Builders

- Complex machines
- CNC machines
- Robotics

Factory Automation

- Automotive assembly lines
- Automotive body shop
- Material handling

Process Control

- Agro food industry
- Oil & Gas
- Pharmaceutical



Industrial Automation



Machine Builders



Material Handling and Bottling

*DeviceNet is a trademark of the Open DeviceNet Vendor Association (ODVA)

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Specifications

I/O CONFIGURATION

8 inputs
4 inputs + 4 outputs
8 outputs

AUXILIARY POWER CONNECTOR

Power Supply: Male, M8, 3-pin

BUS CONNECTORS

Bus In: Male, M8, 5-pin
Bus Out: Female, M8, 5-pin

I/O CONNECTORS

Power In: Male, M8, 4-pin

DIGITAL INPUTS

Compatible with dry contact, PNP (Sinking), 2/3-wire sensors
Input Device Supply (max.): 140mA per port at 25°C
Input delay: 3ms
Electronic short circuit protection
Diagnostic LEDs

DIGITAL OUTPUTS

PNP (Sourcing)
Maximum 1A per channel, max 4A per module
Diagnostic LEDs
Maximum Switching Frequency: 100 Hz

FIELDBUS

Group 2 DeviceNet Server Slave
Auto baud, 125, 250, 500K Baud
I/O data access method according Polled, Cyclic, COS, Bit Strobe
ACD: Yes
Quick Connect: Yes
EDS

DIMENSIONS

30 x 175 x 20mm (1.18" x 6.89" x 0.78")

MOUNTING DIMENSIONS

23mm (0.91") horizontal on centers
168mm (6.61") vertical on centers

GENERAL

IP67 protection according to IEC 60529
Operating temperature: 0 to +70°C
Storage temperature: 0 to +90°C
Relative Humidity: 10 to 95%, non-condensing

VIBRATION

IEC 60068-2-6 conformance

SHOCK AND VIBRATION

10G, 11ms, 3 axis

POWER REQUIREMENTS

Module input power: 24V DC (-15/+20%)
Module output power: 24V DC (-15/+20%), 4.0A max per module

CERTIFICATIONS / REGULATORY APPROVALS

ODVA conformance(*)
RoHS, REACH,
CE, UL, CUL

Ordering Information

Order No.	Engineering No.	Power	I/O	
		Connector	Inputs	Outputs
112092-5012	TBDDN-880P-H04	-	8 (PNP)	-
112092-5013	TBDDN-844P-H44	M8	4 (PNP)	4 (PNP)
112092-5010	TBDDN-808P-H44	M8	-	8 (PNP)

www.molex.com/link/harshio.html