

Part Number	Description		
TCDPB-8B4P-KKU-T	IO:Profibus:IP67:60MM:M12:8P:12DI/4DO:PM23T		
TCDDN-8B4P-KKU-T	IO:DeviceNet:IP67:60MM:M12:8P:12DI/4DO:PM23T		

REVISION:	ECR/ECN INFORMATION:	TITLE: IO Block IP67 60MM M12 8 Ports with					
Α	EC No: NA	M23 connection and Terminal 1 of 1					
_ ^	DATE: 2010 / 02 / 02	Connector					
DOCUMENT NUMBER:		CREATED / REVISED BY:	CHECKED BY:	APPROVED BY:			
SD-112038-5003		SZOUTARD	SMENARD	SZOUTARD			
TEMPLATE FILENAME: PRODUCT_SPEC[SIZE_A](V.1).DOC							

INTRODUCTION



Brad® Harsh IO 623sDN

112092 IP67 IO 8 port M23 112092 IP67 IO 8 port M23T

I/O Systems for Harsh Environments

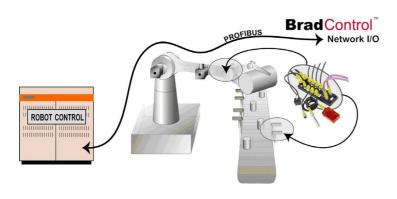
BradControl™ Classic 60mm I/O modules for DeviceNet™provide a reliable solution for connecting industrial controllers to I/O devices in harsh environments.

Contained in a 60mm wide housing rated for IP67 environments, BradControl I/O modules can be machine mounted and are able to withstand areas where liquids, dust or vibration may be present. This makes them ideally suited for many applications including robotics, material handling equipment and automated assembly machinery.

To facilitate input and output device wiring BradControl Classic 60mm I/O modules accept standard threaded M12 connectors or BradConnectivity™ Ultra-Lock™ connection system, a "push-to-lock" method that provides a fast, simple and secure connection between the I/O module and I/O devices. With the BradConnectivity Ultra-Lock connection system, performance and reliability are designed right into the connector! The unique radial seal design provides a reliable, operator independent seal each and every time. There's no chance for under – or over-tightening. When you hear and feel the connector click, you know it's locked in – there's no guesswork.

Built-in diagnostic tools include the highly visible LEDs which provide maintenance personnel with the ability to easily determine I/O, module and network status.

DeviceNet specific features include easy to set rotary MAC ID switches, support for ARD and Quick-Connect ODVA Group 2 Server Slave functionality.





FEATURES AND BENEFITS

- Classic design allows space savings for direct machine mount applications
- I/O connetions made using standard M12 threaded or BradConnectivity™ Ultra-Lock™ connection system providing secure and reliable connections
- Standard hole pattern allows for interchangeability with popular I/O modules
- Visible diagnostic through status LEDs
- Easy to set rotary MAC ID switches
- Support ADR and Quick-Connect
- Supports ODVA Group 2 Server Slave functionality
- Module and channel diagnostics supported through PROFIBUS

APPLICATIONS

Typical applications:

- Robotic applications
- Machine tool industry

- Material handling systems
- Filling & packaging
- Steel industry



TECHNICAL DESCRIPTION

LED Indicators

DeviceNet[™] Network Status

(NET):

Green - running
Flashing green - connection not
allocated
Flashing red - recoverable
network error
Red - bus off; unrecoverable
network error
Off - auto bauding

I/O Module Diagnostics (MOD):

Green - baud rate established, I/O moduel OK Flashing green - auto bauding Red - configuration error

Module & Input Power (UB):

Green - external supply present

Output Power (UL):

Green - external supply present



Input / Output (M12: 1A to 8B): Green - Input / Output on

Brad[®] Harsh IO 623sDN

112092 IP67 IO 8 port M23 112092 IP67 IO 8 port M23T

SPECIFICATIONS

I/O Configurations

12 inputs/4 outputs

I/O Connectors

Micro-Change[™] 5-pole M12 female
BradConnectivity[™] Ultra-Lock[™], internally threaded
Allows 2 input or 2 output channels per conenctor

Bus and Power Connectors

M23 male in

- 17-pole, power in, bus in M23 female out
- 17-pole, power out, bus out

External Power Requirements

Module & input power

24 Vdc, device current + module

Output power

24 Vdc (13 to 28 V), 8A max per module

Baud Rate Settings

Auto Baud 125, 250, 500 Kbaud

Address Settings

0-63 using rotary switches or software

Input Type

Compatible with dry contact and PNP 3-wire switches Electronic short circuit protection

Input Device Supply

140 mA per Port at 25°C

Output Load Current

Maximum 1.0 A per channel Electronic short circuit protection

Maximum Switching Frequency

200 Hz

Housing Dimensions

60mm x 197mm x 30.5mm (2.36x 7.75 x 1.20 inches)

Mounting Dimensions

42mm (T.65 inches) horizontal on centers 210mm (7.36 inches) vertical on centers

I/O Data

Polled, Cyclic, COS, Bit Strobe

Operating Temperature

-20°C to 70°C (-4°F to 158°F)

Storage Temperature

-25°C to 85°C (-13°F to 185°F)

RH Operating

5 to 95% non-condensing

EMC

IEC 61000-6-2

Protection

IP67 according to IEC 60529

Vibration

IEC 60068-6-2 conformance

Shock

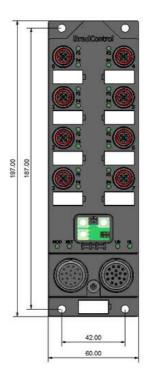
10G, 11ms, 3 axis

MTBF

100 000 hours

Approvals

CE, UL, CUL





ORDERING INFORMATION

Part Number

TCDDN-8B4P-KKU TCDDN-8B4P-KKU-T

Product Description

IO, IP67, 60mm, 8 Ports, 12 Inputs/4 outputs, M23 IO, IP67, 60mm, 8 Ports, 12 Inputs/4 outputs, M23T

Order No.

1120925002 1120925003

www.molex.com



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