

INTRODUCTION



I/O Systems for Harsh Environments

BradControl™ Classic 60mm I/O modules for PROFIBUS 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.

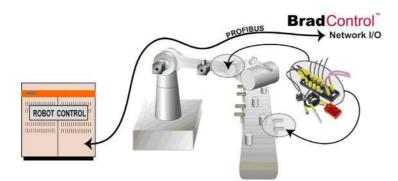
Built-in diagnostic tools include the highly visible LEDs which provide maintenance personnel with the ability to easily determine I/O, module and network status.

PROFIBUS specific features include support of module and channel diagnostics through PROFIBUS and PROFIBUS Slave DP-V0 in accordance with EN 50170.

Brad[®] Harsh IO 623sPB

112038 IP67 IO 8 port M23 112038 IP67 IO 8 port M23T





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
- Module and channel diagnostics supported through PROFIBUS
- Supports PROFIBUS SLave DP-V0 in accordance with EN 50170
- Visible diagnostic through status LEDs

APPLICATIONS

- Typical applications:
- Robotic applications
- Machine tool industry

- Material handling systems
- Filling & packaging
- Steel industry



TECHNICAL DESCRIPTION

LED Indicators

PROFIBUS Network Status (NET): Green - running Red -device not configured

I/O Module Diagnostics (MOD): Off - no fault Red - fault

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 All PROFIBUS baud rates up to 12 MBaud

Address Settings

1-99 by rotary switches, (0= factory default of 126) or 1-125 by Set_Slave_Address command

ORDERING INFORMATION

Part Number

TCDPB-8B4P-KKU TCDPB-8B4P-KKU-T

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 623sPB

112038 IP67 IO 8 port M23 112038 IP67 IO 8 port M23T

Input Type

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

Input Device Supply 140 mA per Port at 25°C

Output Load Current Maximum 2.0 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 (1.65 inches) horizontal on centers 210mm (7.36 inches) vertical on centers

Operating Temperature -25°C to 70°C (-13°F to 158°F)

Storage Temperature -25°C to 90°C (-13°F to 194°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

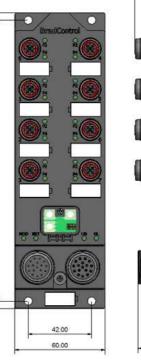
Shock 10G, 11ms, 3 axis

Input Signal Voltage "0": -2V...5 Volts / "1":10...28 Volts

Output Voltage Supply value less 1 Volt

MTBF 100 000 hours

Approvals CE, UL, CUL, PNO certification



31.50

20.00

Product Description

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

Order No.

197.00

1120385002 1120385003



North America: Lincolnshire-IL: + 1-800-225-7724 Waterloo-Canada +1 (905) 624-6518 www.molex.com

Europe: Caudebec-lès-Elbeuf-France: +33 232 960422 Walldorf-Germany: +49 6227 30 91 0 Milan-Italy: +39 02 6642961 Asia: Shanghai-China: +86 21-5835-9885 Nagoya-Japan: +81 3 5791 4621

Europe: 2009.02