



The BradControl[™] IP67 I/O modules provide a reliable solution for connecting industrial controllers to I/O devices in harsh environments.

Features

- Compact design allows space savings for direct machine mount applications
- 4 port format uses standard M12 threaded connectors or BradConnectivity Ultra-Lock connection system
- Standard hole pattern allows for interchangeability with popular I/O modules
- Supports PNP and NPN inputs
- Choose from several I/O configurations
- Visible diagnostics through status LEDs
- Module and channel diagnostics supported through PROFIBUS
- Supports PROFIBUS Slave DP-V0 in accordance with EN 50170

Typical Applications

- Machine tool industry
- Material handling systems
- Filling & packaging
- Steel industry

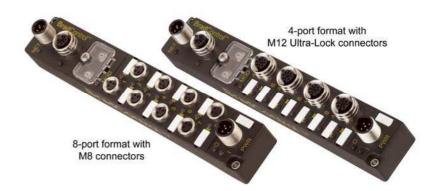






PROFIBUS® Discrete I/O Modules

IP67 Compact 30mm Format



I/O Systems for Harsh Environments

The BradControl[™] Compact 30mm I/O modules for PROFIBUS[®] provide a reliable solution for connecting industrial controllers to I/O devices in harsh environments.



Contained in a 30mm 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 material handling equipment and automated assembly machinery.

To facilitate input and output device wiring, two versions of the BradControl Compact 30mm I/O modules for PROFIBUS are available; an 8 port format using M8 style connectors and a 4 port format using standard M12 threaded connectors or BradConnectivity some 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 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.

Other features include the support of both PNP and NPN inputs and current sourcing outputs. 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.

PROFIBUS® I/O Module

LED Indicators

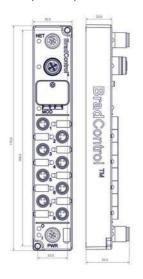
PROFIBUS Network Status (NET): Green - running

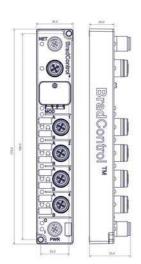
Red – device not configured

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

Module & Input Power (I): Green – external supply present

Input / Output: (4 Port - 1A to 4B) (8 Port - 1 to 8) Green – input / output on Red – input / output fault







Technical Information

	8 inputs
I/O Configurations	8 outputs
	4 inputs / 4 outputs
	6 inputs / 2 outputs
I/O Connectors	5-pole female M12 BradConnectivity Ultra-Lock
	or 3-pole female threaded M8 connectors
Bus Connectors	Bus in: male reverse keyway M12 5-pole, B-Coded
	Bus out: female reverse keyway M125-pole, B-Coded
Power Connector	Power in: male Micro-Change® M12 5-pole
External Power	Module & input power: 24 Vdc, device current + module
Requirements	Output power: 24 Vdc (13 28V), 4A max per module
Baud Rate Settings	Auto baud. All PROFIBUS® baud rates up to 12 MBaud
Address Settings	1 – 99 by rotary switches.
	1 – 126 by Set_Slave_Address command.
Input Type	Dry contact, PNP or NPN
Input Delay	3 ms
Input Device Supply	140 mA per port at 25℃
Output Load Current	Sourcing, max 1.4 A per channel, max 4 A per module
Maximum	200 Hz
Switching Frequency	
Housing Dimensions	30 x 175 x 20 mm (1.18 x 6.89 x 0.78 inches)
Mounting Dimensions	23 mm (0.91 inches) horizontal on centers
	168 mm (6.61 inches) vertical 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 60068-2-6 conformance
Shock	10G, 11ms, 3 axis
Input Signal Voltage	"0": -2V 7 Volts / "1": 930 Volts
Output Voltage	Auxiliary power value - 1 Volt.
Approvals	CE, UL, CUL, PNO certification

Ordering Information

Part Number	Product Description – Compact
TBDPB-480N-B8U	4 Port M12 – 8 inputs NPN
TBDPB-462N-B8U	4 Port M12 – 6 inputs NPN / 2 outputs
TBDPB-444N-B8U	4 Port M12 – 4 inputs NPN / 4 outputs
TBDPB-480P-B8U	4 Port M12 – 8 inputs PNP
TBDPB-462P-B8U	4 Port M12 – 6 inputs PNP / 2 outputs
TBDPB-444P-B8U	4 Port M12 – 4 inputs PNP / 4 outputs
TBDPB-408P-B8U	4 Port M12 – 8 outputs - sourcing
TBDPB-880N-B84	8 Port M8 – 8 inputs NPN
TBDPB-862N-B84	8 Port M8 – 6 inputs NPN / 2 outputs
TBDPB-844N-B84	8 Port M8 – 4 inputs NPN / 4 outputs
TBDPB-880P-B84	8 Port M8 – 8 inputs PNP
TBDPB-862P-B84	8 Port M8 – 6 inputs PNP / 2 outputs
TBDPB-844P-B84	8 Port M8 – 4 inputs PNP / 4 outputs
TBDPB-808P-B84	8 Port M8 – 8 outputs - sourcing

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