

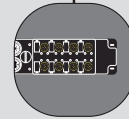
Compact 30mm I/O Modules

- 8 inputs
- 8 outputs
- 6 inputs / 2 outputs
- 4 inputs / 4 outputs

BradControl™ IP67 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 the new 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 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.



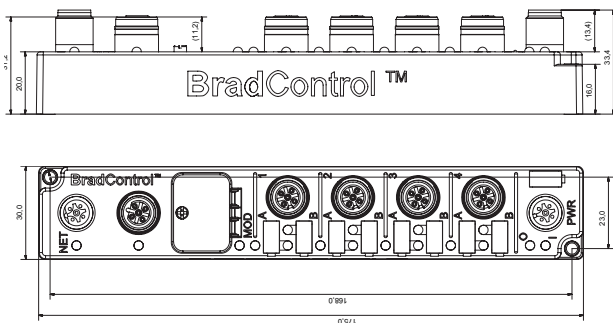
- Rated IP67 for harsh environments
- Designed for space savings in direct machine mount applications
- 4 port format uses standard M12 threaded connectors or BradConnectivity Ultra-Lock connection system
- Standard mounting hole pattern for interchangeability with popular I/O modules
- Supports PNP and NPN inputs
- Visible LEDs provide maintenance personnel with the ability to easily determine I/O, module and network status
- Module and channel diagnostics supported through Profibus
- Supports Profibus Slave DP-V0 in accordance with EN 50170



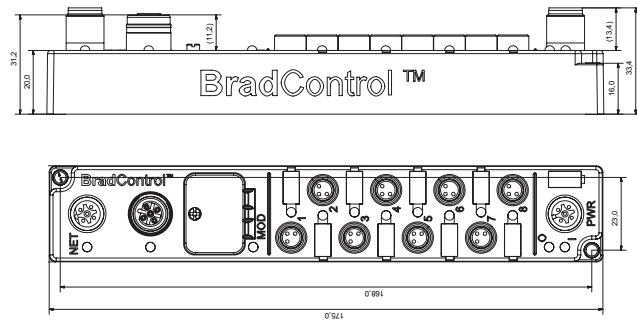
MODULE DIMENSIONS

4 PORTS

8 PORTS



F1



F2

Discrete I/O Modules

Specification

Profibus

Discrete I/O Modules

I/O CONFIGURATIONS	8 inputs 4 ports / 4 outputs	8 outputs 6 inputs / 2 outputs
I/O CONNECTOR	3 POE FEMAE MICROCONNECTIVITY™ TRA-DCK™ OR 3 POE FEMAE TREADED MICROCONNECTORS	
DIAGNOSTIC CONNECTOR	BSI IN: MAE REVERSE KEWAM™ POE, B-CODED BSI OUT: FEMAE REVERSE KEWAM™ POE, B-CODED BRADCONNECTIVITY™ TRA-DCK	
POWER CONNECTOR	POWER IN: MAE MICRO-CHANGE® M2 POE	
ENVIRONMENTAL REQUIREMENTS	MODEL & INPUT POWER: 24dc, DEVICE CURRENT 4MODEL OUTPUT POWER: 24dc (0.5) A MAX PER MODEL	
ISOLATION	AUTO BAD, ALPROFIBUS® BAD RATES 0 TO 1MBaud	
ADDRESSING	1- 99 BY ROTARY SWITCHES 1- 8 BY SET ADDRESS COMMAND	
INPUT TYPE	DRY CONTACT, PNP OR NPN	
INPUT DELAY	3ms	
INPUT DEVICE SUPPLY	0mA PER PORT AT 0	
OUTPUT CURRENT	SOURCING, MAX 4A PER CHANNEL MAX 4A PER MODEL	
MINIMUM SWITCH FREQUENCY	0Hz	
BUSING DIMENSIONS	300mm (11.81 INCHES)	
MOUNTING DIMENSIONS	3mm (0.118 INCHES) HORIZONTAL ON CENTERS 8mm (0.315 INCHES) VERTICAL ON CENTERS	
OPERATING TEMPERATURE	-20 TO 0 (0 TO 32)	
STORAGE TEMPERATURE	-20 TO 90 (0 TO 194)	
HOUSING	5 TO 95% NON-CONDENSING	
EMC	IEC 61010	
PROTECTION	IP67 ACCORDING TO IEC 60529	
STANDARD	IEC 61131-3 CONFORMANCE	
BACKLASH	0, 1ms, 3A/S	
INPUT SIGNALS	* 0-24 VDC / * 1-9 VDC	
OUTPUTS	MAX 4A POWER VAE - 1VDC	
CERTIFICATIONS	CE, UL/PLNO CERTIFICATION	

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

Output Power (O)
 Green – external supply present

Input / Output (Port: A to B)
 0 Port: 0 to 8)
 Green – input / output on
 Red – input / output fault

Order Information

PART NUMBER	PRODUCT DESCRIPTION	FIGURE	PART NUMBER	PRODUCT DESCRIPTION	FIGURE
TBDPB-480N-B8U	4 PORT M12 – 8 INPUTS NPN	1	TBDPB-880N-B84	8 PORT M8 – 8 INPUTS NPN	2
TBDPB-462N-B8U	4 PORT M12 – 6 INPUTS NPN / 2 OUTPUTS	1	TBDPB-862N-B84	8 PORT M8 – 6 INPUTS NPN / 2 OUTPUTS	2
TBDPB-444N-B8U	4 PORT M12 – 4 INPUTS NPN / 4 OUTPUTS	1	TBDPB-844N-B84	8 PORT M8 – 4 INPUTS NPN / 4 OUTPUTS	2
TBDPB-480P-B8U	4 PORT M12 – 8 INPUTS PNP	1	TBDPB-880P-B84	8 PORT M8 – 8 INPUTS PNP	2
TBDPB-462P-B8U	4 PORT M12 – 6 INPUTS PNP / 2 OUTPUTS	1	TBDPB-862P-B84	8 PORT M8 – 6 INPUTS PNP / 2 OUTPUTS	2
TBDPB-444P-B8U	4 PORT M12 – 4 INPUTS PNP / 4 OUTPUTS	1	TBDPB-844P-B84	8 PORT M8 – 4 INPUTS PNP / 4 OUTPUTS	2
TBDPB-408P-B8U	4 PORT M12 – 8 OUTPUTS - SOURCING	1	TBDPB-808P-B84	8 PORT M8 – 8 OUTPUTS - SOURCING	2

For product & technical information visit www.woodhead.com/eCatalog

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**BEST SELECTION,
FAST DELIVERY**

BradConnectivity™ products offer the benefits of quick-disconnect – fast machine commissioning, the elimination of wiring errors, and simple device additions and replacements – to Profibus networks. Mini-Change® connectors are used to provide the quick-disconnect feature to the auxiliary power for active I/O modules. Reverse Key Micro-Change® connectors are used to connect the data line from one device to another. Input and output connections connect into the blocks via reliable Micro-Change family of products. Profibus standard 9-Pin D-Sub connectors are pre-connected and tested to eliminate wiring errors caused by traditional hard wiring. Whether it's active I/O modules or simple terminators, Brad® products offer a complete package to make Profibus truly a "plug-and-play" network.

**MINI-CHANGE CONNECTORS
AUXILIARY POWER CONNECTIONS**

Quad Beam™ design of contacts assures consistent pressure is maintained over the life of the connector, assuring reliable performance



Gold over nickel plating for highest reliability

E-coated coupling nut for resistance to weld slag. Anti-vibration feature prevents back-out. Stainless steel optional for food/beverage or outdoor environments.

**MICRO-CHANGE CONNECTORS
BUS-LINE CONNECTORS**

Gold over nickel plating for highest reliability



Overmolded materials designed for industrial environments and provide stress relief

Nickel-plated brass coupling and shell assembly provides grounding for a fully shielded head design. Anti-vibration feature prevents back-out.

**D-SUB CONNECTOR
INTERFACE CONNECTIONS**

Variety of data line connections



D-sub connector with termination switch provides flexibility in the field

Overmolded construction for stress relief, moisture and cutting fluid resistance