

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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

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Features

- NEW module version! 8 inputs + 8 universal (inputs or outputs)
- Classic design allows space savings for direct machine mount applications
- 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





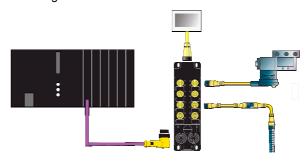
PROFIBUS® Discrete I/O Modules

IP67 Classic 60mm Format



I/O Systems for Harsh Environments

The 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 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 s new 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 quesswork.

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):

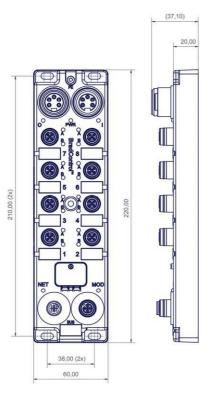
Green - external supply present

Output Power (0):

Green - external supply present

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

Green - input / output on Red - input / output fault



Technical Information

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	16 inputs	
I/O Configurations	14 inputs + 2 outputs	
	12 inputs + 4 outputs 8 inputs + 8 outputs	
	8 inputs + 8 configurable (inputs or outputs)	
	5-pole female M12 BradConnectivity Ultra-Lock.	
I/O Connectors	Allows 2 input or 2 output channels per connector.	
Bus Connectors	Bus in : male reverse-key M12 5-pole, B-Coded	
Bus Connectors	Bus out : female reverse-key M12 5-pole, B-Coded	
Power Connectors	Power in : male Mini-Change® 5-pole	
	Power out : female Mini-Change 5-pole	
External Power Requirements	Module & input power: 24 Vdc, device current + module	
•	Output power: 24 Vdc (13 to 28 V), 8A max per module Auto baud, All PROFIBUS® baud rates up to 12 MBaud	
Baud Rate Settings	•	
Address Settings	1 – 99 by rotary switches, (0 = factory default of 126) or 1 – 125 by Set Slave Address command	
Input Type	Compatible with dry contact and PNP or NPN 3-wire	
	switches. Electronic short circuit protection	
Input Delay	0.5 ms	
Input Device Supply	140 mA per port at 25°C	
Output Load Current	Max 2.0 A per channel, electronic short circuit protection	
Maximum	200 Hz	
Switching Frequency		
Housing Dimensions	60mm x 220mm x 20mm (2.36 x 8.66 x .78 inches)	
	37.5 mm (1.48 inches) horizontal on centers	
Mounting Dimensions	210 mm (8.27 inches) vertical on centers Center hole	
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": -0.2 ↔ 5 Volts / "1": 10 ↔ 28 Volts	
Output Voltage	Supply value less 1 Volt.	
Approvals	CE, UL, CUL, PNO certification	

Ordering Information

Part Number	SAP Number	Product Description
TCDPB-8D0N-B1U	1120380030	8 Port M12 – 16 inputs NPN
TCDPB-8C2N-B1U	1120380028	8 Port M12 – 14 inputs NPN + 2 sourcing outputs
TCDPB-8B4N-B1U	1120380026	8 Port M12 – 12 inputs NPN + 4 sourcing outputs
TCDPB-888N-B1U	1120380024	8 Port M12 – 8 inputs NPN + 8 sourcing outputs
TCDPB-8D0P-B1U	1120380031	8 Port M12 – 16 inputs PNP
TCDPB-8C2P-B1U	1120380029	8 Port M12 – 14 inputs PNP + 2 sourcing outputs
TCDPB-8B4P-B1U	1120380027	8 Port M12 – 12 inputs PNP + 4 sourcing outputs
TCDPB-888P-B1U	1120380025	8 Port M12 – 8 inputs PNP + 8 sourcing outputs
TCDPB-88UP-B1U	1120385004	8 Port M12 – 8 inputs PNP + 8 I/O configurable



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