

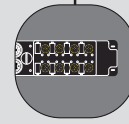
# Classic 60mm I/O Modules

- 16 inputs
- 14 inputs / 2 outputs
- 12 inputs / 4 outputs
- 8 inputs / 8 outputs

BradControl™ IP67 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.

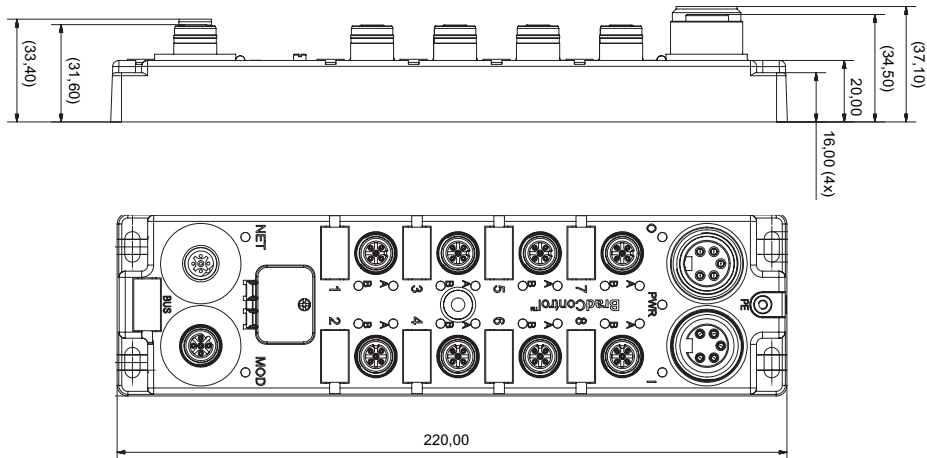
To facilitate input and output device wiring, BradControl Classic 60mm I/O modules accept standard threaded M12 connectors or the new BradConnectivity™ Ultra-Lock™ connection system, a “push-to-lock” method that provides a fast, simple and secure connection between the I/O module and I/O devices. With 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
- Standard threaded M12 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



I/O CONFIGURATIONS	8 inputs 2pts / 4outputs	4pts / 2outputs 8 inputs / 8 outputs
I/O CONNECTOR	5-POLE FEMALE M12 BRACKET CONNECTIVITY™ ULTRALOCK™ ALSO 2 INPUTOR 2 OUTPUT CHANNELS PER CONNECTOR.	
BUS CONNECTOR	BUS IN: MALE REVERSE-KW12 5-POLE, B-CODED BUS OUT: FEMALE REVERSE-KW12 5-POLE, B-CODED	
POWER CONNECTOR	POWER IN: MALE MINI-CONE 5-POLE POWER OUT: FEMALE MINI-CONE 5-POLE	
ENVIRONMENTAL REQUIREMENTS	MODULE & INPUT POWER: 24 Vdc, DEVICE CURRENT: MODULE OUTPUT POWER: 24 Vdc (1.30 28V) 2.8 W PER MODULE	
PROTOCOLS	MODBUS ALSO PROFIBUS 5-POLE RES UP TO 12 MBaud	
ADDRESS SETTING	1 - 9 BYTES (DEFAULT OF 126) OR 1 - 125 BYTES (ADDRESS COMMAND)	
INPUT TYPE	COMPLIANT WITH COMMON PNP OR NPN SINK SOURCE. ELECTRONIC SHORT-CIRCUIT PROTECTION	
INPUT DELAY	3ms	
INPUT POWER SUPPLY	140 mA PER PORT @ 5C	
OUTPUT LOAD CURRENT	MAX. 0.8 A PER CHANNEL, ELECTRONIC SHORT-CIRCUIT PROTECTION	
MINIMUM SINK CURRENT	200 mA	
BUS DIMENSIONS	60mm X 20mm X 20mm (2.8 X .66 X .78 INCHES)	
MOUNTING DIMENSIONS	3.5 mm (1.48 INCHES) BIRDIMENSION CENTERS 210 mm (8.27 INCHES) VERIFICATION CENTERS CENTER HOLE	
OPERATING TEMPERATURE	-25C TO 70C (-18 TO 158)	
STORAGE TEMPERATURE	-25C TO 90C (-18 TO 194)	
ROHS COMPLIANT	5 TO 9% NON-CONDENSING	
EMC	IEC 61000-6-2	
PROTECTION	IEC IP67 ACCORDING TO IEC 60529	
IP67	IEC 60068-2-6 CONFORMANCE	
SHOCK	10G/11ms, 3%	
INPUT SIGNALS	0V-2V 5VDC / 1:10 28VDC	
OUTPUT SIGNALS	SUPPLY VOLTAGE LESS 1 VOLT	
APPROVALS	CE, UL, CUL, PNO CERTIFICATION	

#### LED Indicators

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

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

**Module 8pt Power (P)**  
Green - external supply present

**Output Power (O)**  
Green - external supply present

**Input / Output Module (I/O)**  
Green - input / output on  
Red - input / output fault

## Order Information

PART NUMBER	PRODUCT DESCRIPTION	PART NUMBER	PRODUCT DESCRIPTION
TCDPB-8D0N-B1U	8 PORT M12 - 16 INPUTS NPN	TCDPB-8D0P-B1U	8 PORT M12 - 16 INPUTS PNP
TCDPB-8C2N-B1U	8 PORT M12 - 14 INPUTS NPN / 2 SOURCING OUTPUTS	TCDPB-8C2P-B1U	8 PORT M12 - 14 INPUTS PNP / 2 SOURCING OUTPUTS
TCDPB-8B4N-B1U	8 PORT M12 - 12 INPUTS NPN / 4 SOURCING OUTPUTS	TCDPB-8B4P-B1U	8 PORT M12 - 12 INPUTS PNP / 4 SOURCING OUTPUTS
TCDPB-888N-B1U	8 PORT M12 - 8 INPUTS NPN / 8 SOURCING OUTPUTS	TCDPB-888P-B1U	8 PORT M12 - 8 INPUTS PNP / 8 SOURCING OUTPUTS