

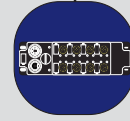
Classic 60mm I/O Modules

- 16 inputs
- 8 inputs / 8 outputs

BradControl™ IP67 Classic 60mm I/O modules for DeviceNet™ 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
- Rotary switch addressing 0-63
- Supports ADR and Quick-Connect
- Supports ODVA Group 2 Server Slave functionality
- Auto baud communication support



MODULE DIMENSIONS

Without Auxiliary Power

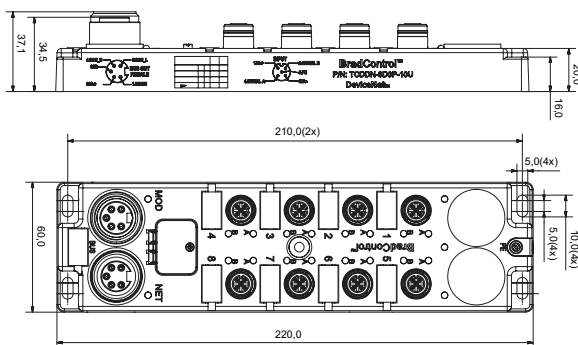


FIG 1

With Auxiliary Power

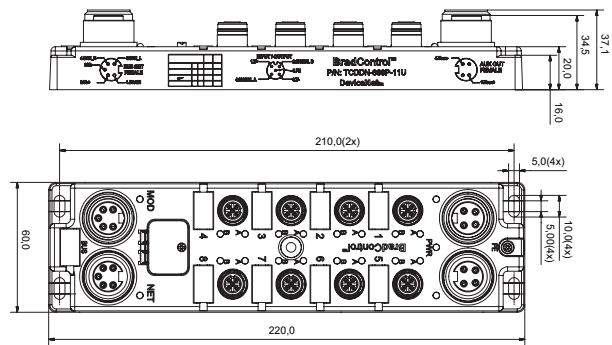


FIG 2

Discrete I/O Modules

Specifications

DeviceNet™

Discrete I/O Modules

I/O CONFIGURATIONS	16 inputs 8 inputs / 8 outputs
I/O CONNECTORS	MICRO-CHANGE® 5-POLE M12 FEMALE BRADCONNECTIVITY™ ULTRA-LOCK™, INTERNALLY THREADED
BUS CONNECTORS	MINI-CHANGE® 5-POLE MALE (NETWORK IN) 5-POLE FEMALE (NETWORK OUT)
AUXILIARY POWER CONNECTORS	MINI-CHANGE 4-POLE MALE (POWER IN) 4-POLE FEMALE (POWER OUT)
EXTERNAL POWER REQUIREMENTS	MODULE & INPUT POWER: 24 Vdc, INPUT DEVICES + MODULE OUTPUT POWER: 24 Vdc (13 TO 28V), 8A MAX PER MODULE
BAUD RATE SETTINGS	AUTO BAUD 125, 250, 500 Kbaud
ADDRESS SETTINGS	0 – 63 USING ROTARY SWITCHES OR SOFTWARE
INPUT TYPE	COMPATIBLE WITH DRY CONTACT AND PNP OR NPN 3-WIRE SWITCHES. ELECTRONIC SHORT CIRCUIT PROTECTION.
INPUT DEVICE SUPPLY	140 mA PER PORT AT 25°C
OUTPUT LOAD CURRENT	MAXIMUM 1.0 A PER CHANNEL ELECTRONIC SHORT CIRCUIT PROTECTION
MAXIMUM SWITCHING FREQUENCY	200 Hz
HOUSING DIMENSIONS	60 X 220 X 20 mm (2.36 X 8.66 X 0.78 INCHES)
MOUNTING DIMENSIONS	37.5 mm (1.48 INCHES) HORIZONTAL ON CENTERS 210 mm (8.27 INCHES) VERTICAL ON CENTERS CENTER HOLE
I/O DATA	POLLED, CYCLIC, COS, BIT STROBE
OPERATING TEMPERATURE	0°C TO 70°C (32°F TO 158°F)
STORAGE TEMPERATURE	-20°C TO 85°C (-4°F TO 185°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
APPROVALS	ODVA, UL, CUL, CE

LED Indicators

DeviceNet Network Status (NET):

Green – running
Flash Green – connection not allocated
Flash Red – recoverable network error
Red – bus off; unrecoverable network error
Off – auto bauding

I/O Module Diagnostics (MOD):

Green – baud rate established, block OK
Flash Green – auto bauding
Red – configuration error

Auxiliary Power (PWR):

Green – auxiliary power present
Red – reverse polarity
Off – auxiliary power not connected

Input / Output (1A to 8B):

Green – input / output on
Red – input / output fault

Ordering Information

PART NUMBER	PRODUCT DESCRIPTION	FIGURE
TCDDN-8D0N-10U*	8 PORT M12 – 16 INPUTS NPN	1
TCDDN-888N-11U*	8 PORT M12 – 8 INPUTS NPN / 8 SINKING OUTPUTS	2
TCDDN-8D0P-10U	8 PORT M12 – 16 INPUTS PNP	1
TCDDN-888P-11U	8 PORT M12 – 8 INPUTS PNP / 8 SOURCING OUTPUTS	2

*Call for availability

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

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