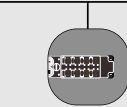




Active I/O Modules

- 16 inputs
- 8 input/8 output
- 8 output

The Brad® active I/O family of DeviceNet I/O modules can control a variety of DC PNP or NPN 24V sensors or dry contacts as well as variety actuators. These modules are intended for heavy-duty industrial use, as they are designed to meet or exceed IP68, NEMA 6P environments such as food processing, metal cutting and welding. Three configurations are available including 16 IN, 8IN/8OUT and 8 OUT to accommodate a variety of applications. Input circuits are provided with auto-configuration to allow either PNP and NPN sensors to be connected. Outputs are overload protected at 1A. A variety of LEDs including network, module, input and output status and auxiliary power indicators are provided to assist in diagnosing and trouble-shooting the network. The node address of the blocks can either be software or dip switch selected.



- Auto-sensing of either PNP/NPN switches allows any combination of devices to be connected providing you with flexibility
- IP68-rated for wash-down packaging and food processing environments
- Short-circuit protection on I/O protects blocks from damage, maximizing up-time

Active I/O Modules

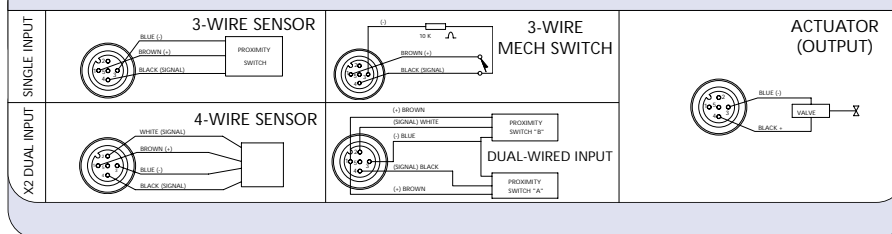
Specifications

	TDN-8CO-108 16 INPUT	TDN-888-118 8 INPUT / 8 OUTPUT	TDN-808-118 8 OUTPUT
SUPPLY VOLTAGE	11-25V DC 120mA MAX	11-25V DC 120mA MAX	11-25 V DC 120mA MAX
INTERNAL CURRENT CONSUMPTION:			
INPUT CIRCUITS:	PNP OR NPN, 3 WIRE SENSORS OR DRY CONTACTS 11-25V (FROM BUS POWER) 100mA MAX PER INPUT PAIR LIMITED BY POLYSWITCH	PNP OR NPN, 3 WIRE SENSORS OR DRY CONTACTS 11-25V (FROM BUS POWER) 100mA MAX PER INPUT PAIR LIMITED BY POLYSWITCH	—
INPUT VOLTAGE:	11-25V (FROM BUS POWER)	11-25V (FROM BUS POWER)	—
SENSOR CURRENT:	100mA MAX PER INPUT PAIR LIMITED BY POLYSWITCH	100mA MAX PER INPUT PAIR LIMITED BY POLYSWITCH	—
OUTPUT CIRCUITS:	—	DC ACTUATORS 10-30V DC (FROM AUXILIARY POWER) 1A/OUTPUT ELECTRONIC PROTECTION ≤100 HZ	DC ACTUATORS 10-30V DC (FROM AUXILIARY POWER) 1A/OUTPUT ELECTRONIC PROTECTION ≤100 HZ
OUTPUT VOLTAGE:	—	10-30V DC (FROM AUXILIARY POWER) 1A/OUTPUT ELECTRONIC PROTECTION ≤100 HZ	10-30V DC (FROM AUXILIARY POWER) 1A/OUTPUT ELECTRONIC PROTECTION ≤100 HZ
OUTPUT CURRENT:	—	100mA MAX PER INPUT PAIR LIMITED BY POLYSWITCH	100mA MAX PER INPUT PAIR LIMITED BY POLYSWITCH
MAXIMUM SWITCHING FREQUENCY:	—	≤100 HZ	≤100 HZ
NETWORK SETTINGS	1.25K, 250K, OR 500K SET VIA CONFIGURATION SOFTWARE OR DIP SWITCHES ON PRODUCT GROUP 2 ONLY SLAVE SUPPORTS POLLING, CYCLIC AND CHANGE OF STATE MESSAGING 0-63 SET VIA CONFIGURATION SOFTWARE OR DIP SWITCHES ON PRODUCT		
COMMUNICATION RATE:	1.25K, 250K, OR 500K SET VIA CONFIGURATION SOFTWARE OR DIP SWITCHES ON PRODUCT		
PROTOCOL CAPABILITIES:	GROUP 2 ONLY SLAVE SUPPORTS POLLING, CYCLIC AND CHANGE OF STATE MESSAGING 0-63 SET VIA CONFIGURATION SOFTWARE OR DIP SWITCHES ON PRODUCT		
ADDRESSING:	GROUP 2 ONLY SLAVE SUPPORTS POLLING, CYCLIC AND CHANGE OF STATE MESSAGING 0-63 SET VIA CONFIGURATION SOFTWARE OR DIP SWITCHES ON PRODUCT		
INPUT STATUS	OFF: SENSOR NOT ACTIVE SOLID GREEN: SENSOR ACTIVE SOLID RED: FAULT PRESENT	OFF: SENSOR NOT ACTIVE SOLID GREEN: SENSOR ACTIVE SOLID RED: FAULT PRESENT	—
OUTPUT STATUS	OFF: OUTPUT OFF SOLID GREEN: OUTPUT ON SOLID RED: FAULT PRESENT	OFF: OUTPUT OFF SOLID GREEN: OUTPUT ON SOLID RED: FAULT PRESENT	OFF: OUTPUT OFF SOLID GREEN: OUTPUT ON SOLID RED: FAULT PRESENT
MECHANICAL	BLACK PBT MATERIAL-HOUSING: GOLD OVER NICKEL, PER ODVA SPECIFICATION NICKEL-PLATED BRASS CONTACT PLATING: SHELL MATERIAL: ENVIRONMENTAL PROTECTION: IP68; NEMA 6P OPERATING TEMP: 32° TO 140° F (0° TO 60° C) HUMIDITY: 5 TO 95% RH NON-CONDENSING APPROVAL: ODVA:		
LED INDICATORS	MODULE/NETWORK STATUS OFF: NOT POWERED OR MAY BE OFF-LINE FLASHING GREEN: ON-LINE, NO NETWORK CONNECTION SOLID GREEN: ON-LINE, CONNECTIONS ESTABLISHED FLASHING RED: CONNECTIONS ARE IN TIMED-OUT STATE SOLID RED: CRITICAL ERROR SUCH AS DUPLICATE MAC ID OR BUS OFF		
MODULE LED	NO POWER DEVICE ON STANDBY, NEEDS COMMISSIONING DEVICE OPERATIONAL RECOVERABLE FAULT – MAYBE CORRECTED W/O REMOVAL FROM NETWORK UNRECOVERABLE FAULT – MUST BE REMOVED FROM NETWORK FOR CORRECTIONS		

Wiring Information

DESCRIPTION	MODULE	FIG.	BUS IN MALE	BUS OUT FEMALE	AUX POWER	INPUTS	OUTPUTS
8 X 2 IN 16 TOTAL INPUTS, AUTO-SENSING PNP/NPN, SHORT-CIRCUIT PROTECTION	TDN-8CO-108	1					
4 X 2 IN/4 X 2 OUT, 8 INPUT/8 OUTPUTS, AUTO-SENSING PNP/NPN, SHORT-CIRCUIT PROTECTION 1A OUTPUT	TDN-888-118	2					
8 X 1 OUT TOTAL 8 OUTPUTS 1A OUTPUT	TDN-808-118	2					

TYPICAL CONNECTIONS



* For bus IN/OUT cordsets use DN10A-M0X0 (bus in) and DN01A-M0X0 (bus out) – see pages 24-27
 ** For aux power cordsets see pages 64-65
 *** For dual I/O cordsets use 884030A05M0X0 or see pages 154-157 of Brad Harrison Designer's Guide
 **** For single I/O cordsets use Brad Harrison type 883030A09M0X0 or see pages 94-114 of Brad Harrison Designer's Guide
 Note: Use Adaptor P/N BG14616 to connect NC contact from sensor into active module

MODULE DIMENSIONS

