



The BradControl™ Block I/O system provides an IP20 I/O interface solution for open network fieldbuses such as PROFIBUS®, DeviceNet™ and Ethernet. Features include expandability, high-density design & DIN rail mounting.

Digital Output Module

8 & 16 24V DC Outputs

Features

- Expandable in-cabinet IP20 I/O
- Comprehensive selection of digital and analog I/O interfaces
- Easy field replacement of modules
- Direct wire couplings for assembly cost savings
- Space-saving construction
- High-density design
- Ribbon cable connections between modules
- User markable identification
- LED output status
- 8 or 16 digital output channels (current sourcing)
- 2A short circuit protected models
- 1A high speed models



Overview

The BradControl IP20 Block I/O system is an effective way to connect industrial I/O devices to a PLC or PC controller over an industrial fieldbus network such as PROFIBUS. The BradControl I/O interface solution is comprised of a network adapter and up to 32 expansion modules mounted in an enclosure close to the field devices. The ribbon cable based expansion bus, which handles inter-module communication, operates at 11 Mbd, is permitted to be 6.5 meters in length, and accommodates a maximum of ten groups of modules.

A wide range of control system interface requirements are met with the availability of 24 VDC powered digital input, digital output, relay output, analog input and analog output modules.

Digital Output Module

These BradControl digital output modules have either 8 or 16 outputs. Both short-circuit protected (2A) and non-protected (1A) variations are available.

Together with the labeling fields for the individual outputs, yellow LEDs show the channel status.



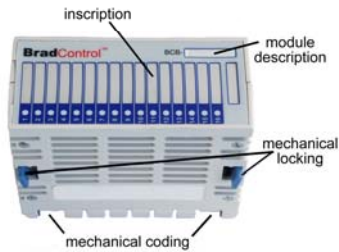
Digital Output Module



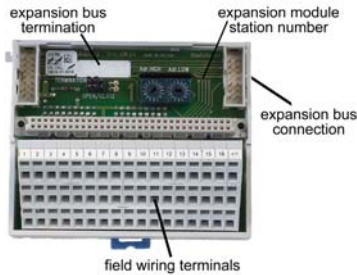
Components

The modular I/O is a combination of the function and terminal modules.

Function Module:



Terminal Module:



Hardware Specifications

Part Number	BCB-FDO-081	BCB-FDO-083	BCB-FDO-161	BCB-FDO-163
Number of Outputs	8	8	16	16
Short Circuit Protection	No	Yes	No	Yes
Supply Voltage	18 – 30 V DC			
Current Consumption BradControl™ Bus (+5V)	Typical 20mA maximum 40 mA			
Maximum Permitted Continuous Load per Output	1A	2A	1A	2A
Voltage Drop Over Supply (Output Switched On)	≤ 1V			
Residual Current Output (Switched Off)	≤ 1 mA			
Maximum Total Current per 8 Outputs	6A (100% switch-on duration)			
Maximum Total Current (Whole Module)	10A (100% switch-on duration)			
Status Display	Yellow LEDs			
Switch-on Delay	< 10 μs	< 200 μs	< 10 μs	< 200 μs
Switch-off Delay	< 30 μs	< 200 μs	< 30 μs	< 200 μs
Operation Temperature	0 – 60°C (32 - 140°F)			
Relative Humidity	0 – 95% non-condensing			

Ordering Information

Part Number	Product Description
BCB-FDO-081	Digital output module – 8 outputs, 1A, 18 - 30 V DC
BCB-FDO-083	Digital output module – 8 outputs, 2A, 18 - 30 V DC
BCB-FDO-161	Digital output module – 16 outputs, 1A, 18 – 30 V DC
BDB-FDO-163	Digital output module - 16 outputs, 2A, 18 – 30 V DC
BCB-TDO-012	Terminal module for BCB-FDO modules listed above