Ovation™ 32 Channel Digital Output Module

(5X00500G01/1X0069H01)

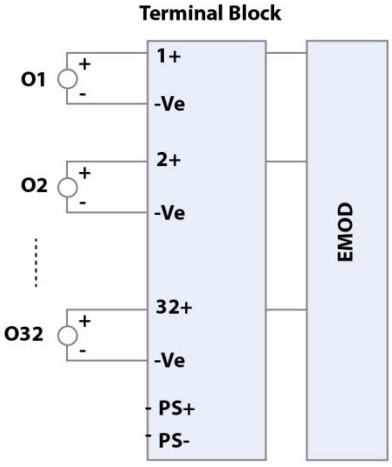
Features

- 32 current sourcing outputs
- Switch the positive 24 VDC power to an external load (relays)
- Field power source using cabinet auxiliary 24 VDC power
- +/- 1000 VDC galvanic isolation voltage (field to logic)
- Module hot-swap capability
- Field power presence detection capability
- Stored electronic ID information for module type, group, serial number and revision
- Software configurable communication time out period and action to outputs reset or latch
- Inductive kick protection

Overview

Each of the 32 digital output channels in this Ovation™ module is capable of sourcing up to 500 mA of output current with a 2 A maximum total output current limit.

A 4-module I/O base (part number – 5X00497G01) is required with the 32-channel digital output module, which provides additional wire terminations to support the 32 channels.



Maintenance and Diagnostics

Standard LED status indicators for:

- Module power OK
- Communication OK
- External fault (if 24 VDC field power is not present, is below threshold or the auxiliary 24 VDC fuse is blown)
- Module internal fault
- Individual output status for channels 1 to 32

Specifications

32 Channel Digital Output Module Specifications	
Channel Specification	
Channels per module	32
Output type	IEC 61131-2 protected output current sourcing DC output
Maximum output current per channel	500 mA max, with 2 A max for total 32 channels
Module Specifications	
Module power dissipation	4.05 watts max
Galvanic isolation	+/- 1,000 VDC between field to logic
Operating temperature range	0°C to 60°C (32°F to 140°F)
Humidity (non-condensing)	0 to 95%
Electrical Interface Standards	
Electrostatic discharge immunity test	EN 61000-4-2, 4 kV contact discharge, 8 kV air discharge
Radiated, radio-frequency, electromagnetic field immunity test	EN 61000-4-3, 80 MHz to 1000 MHz carrier wave field strength of 10 V RMS/m with sinusoidal amplitude modulation of 1 kHz @ 80% modulation depth
Fast transient/burst immunity test	EN 61000-4-4, 1 kV peak
Surge immunity test	EN 61000-4-5 Surge immunity test, 1 kV peak (common mode)
Immunity to conducted disturbances induced by RF	EN 61000-4-6, 150 kHz to 80 MHz carrier wave field strength of 3 V (TBD) RMS with sinusoidal amplitude modulation of 1 kHz @ 80% modulation depth and a source impedance of 150 ohms
Surge withstand immunity	ANSI/IEEE C37.90.1-1989 IEEE Standard Surge Withstand Capability (SWC)
Radio frequency emissions	ENV 55011 Limits and Methods of Measurement of Radio Disturbance Characteristics of Industrial, Scientific and Medical (ISM) Radio-Frequency Equipment
Safety Standards	
EN 61010-1	Safety Requirements for Electrical Equipment for Measurement, Control & Laboratory Use