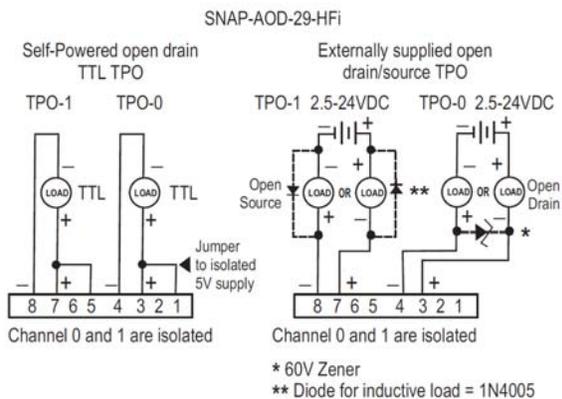


Dual-Channel Time-Proportional Output Voltage 2.5–24 VDC, 0 to 100 kHz



WARNING: Do not remove or replace connectors or cards while circuit is live unless area is known to be nonhazardous.

Description

The SNAP-AOD-29-HFi is a TPO (time-proportional output) or PWM (pulse-width modulation) module that converts an analog value to a digital on/off output. The outputs are used to switch or control DC loads such as lamps or indicators, solenoids, relay coils, and PLC logic. Each channel can switch 100 mA of load current ranging from 2.5 VDC to 24 VDC supplied externally, over a period range of 0.00001 seconds to 64.25 seconds.

The two channels are optically isolated from each other.

Five volts through a 200 Ohm pull-up resistor are provided internally for each channel for use with TTL loads. This feature means you don't have to provide the pull-up voltage supply required for each output.

This module requires a SNAP PAC controller or brain with SNAP PAC firmware version 9.3c or higher. It cannot be used with legacy controllers or brains.

NOTE: The SNAP-AOD-29-HFi module cannot be used in a SNAP PAC IO4AB system. Instead, use the built-in TPO functionality available on all SNAP-PAC brains that support IO4AB.

SNAP Analog Output Modules

Part Number	Description
SNAP-AOD-29-HFi	Isolated dual-channel analog time-proportional or pulse-width modulation digital output, 2.5 to 24 VDC

Specifications

Switched Output	2.5 to 24 VDC at 100 mA supplied externally
Maximum Survivable Switch Voltage	60 VDC
Peak Current	1.0 A (t < 10 milliseconds)
Period Range	0.00001 sec to 64.25 sec
Percent Range	0-100%
Period Resolution	20.8 nanoseconds
Percent Resolution	0.024% (12-bit)
Period Accuracy	+/- 0.005% of period
Pull-up Voltage	4.5 to 5.0 VDC
Pull-up Resistor	200 Ohm
Minimum Output Pulse Width	1 microsecond
Maximum Operating Common Mode Voltage	250 V Continuous
Isolation: Channel to Channel	250V Continuous 1500V Transient
Power Consumption	1.5 W (300 mA @ 5 V)
Ambient Temperature: Operating Storage	-20 °C to 70 °C -40 °C to 85 °C
Torque, hold-down screws	4 in-lb (0.45 N-m)
Torque, connector screws	5.26 in-lb (0.6 N-m)
Wire size range	22 to 14 AWG
Agency Approvals	CE, RoHS, DFARS
Warranty	Lifetime