V345

24-channel Isolated Digital Output

The V345 is a single-width, C-size, register-based, VXIbus module containing a 24-bit register that drives 24 output circuits.

Module options are available with the output circuits composed of reed relays, optical isolators, or isolated ac switches.

Reed-relay, optical-isolator and ac-switch options are available

APPLICATIONS

Test cells

Driving relays, solenoids, lamps and other control devices

FEATURES

- 24 output circuits isolated from each other and ground
- Reed relay, optical isolator, and ac switch options available
- AC switch option includes zero-crossing network
- Front panel LEDs indicate state of all outputs

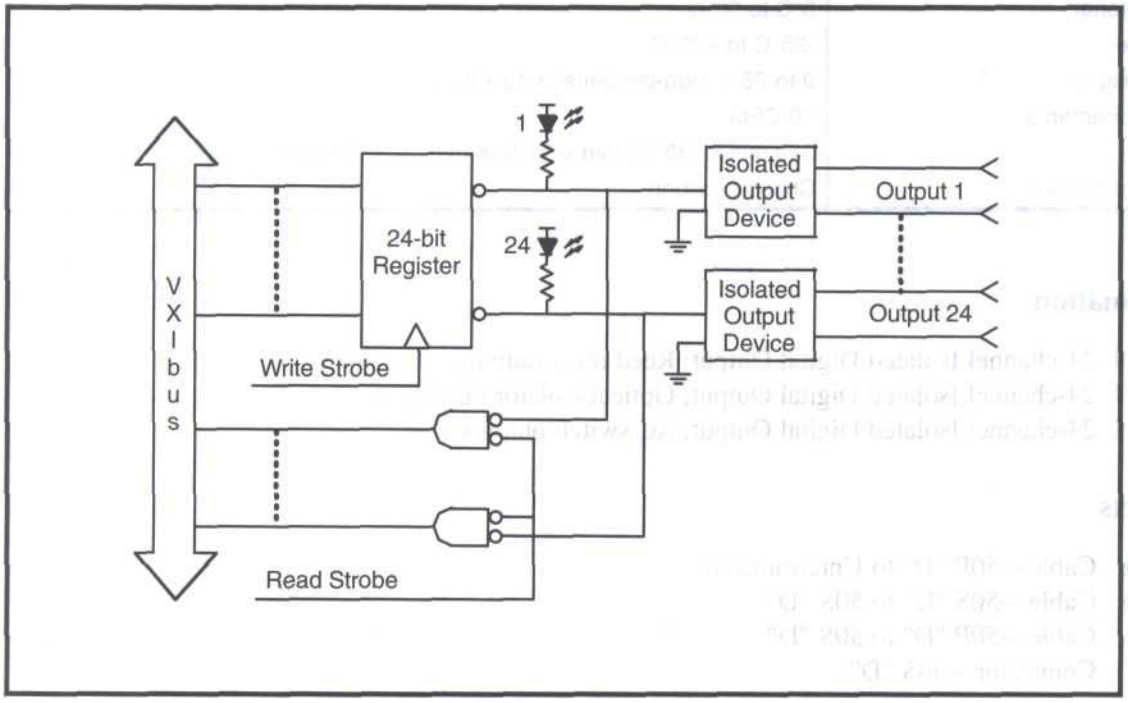
GENERAL DESCRIPTION

The V345 is a single-width, C-size, register-based, VXIbus module containing a 24-bit register that drives 24 output circuits. Module options are available with the output circuits composed of reed relays, optical isolators, or isolated ac switches. Each output option brings the output switches to a 50-contact "D" type connector on the module front panel. For all options, the maximum voltage, current, and (for the reed relay option) volt-ampere ratings must be observed. Appropriate external suppression must be provided for inductive loads.

Twenty-four light emitting diodes (LEDs) are provided on the front panel for visually monitoring the current state of all output circuits. Additionally, the output register can be read as well as written from software. With both read and write capabilities, "selective set" and "selective clear" functions can be performed by reading the register, performing the appropriate software sequence (logical AND, etc.) and then writing the output register.

The V345 supports both static and dynamic configuration. Access to the data is through memory locations indicated by the Offset Register within the VXIbus Configuration Register set, using A24/A16, D16 data transfers.

Item	Specification
Outputs	24, isolated
Number of outputs Output signal	Reed relay, optical isolator, and ac switch
Options	
Output Ratings	
Reed Relay option	
Maximum open circuit voltage	100 V
Maximum current	0.5 A
Maximum switched load	10 VA
Output polarity	Either
Contact bounce	3 ms
Optical Isolator option	
Maximum open circuit voltage	30 V
Maximum ON current	10 mA
ON voltage drop	1 V
OFF current	Less than 1 µA
Output polarity	Collector positive with respect to emitter (Even I/O contacts positive, odd contacts negative)
AC Switch option	200 V
Maximum open circuit voltage	0.5 A, 47-70 Hz
Maximum On currect	0.01 A
Minimum ON currect	Less than 1.6 V
On voltage drop	
Output Connector Type	50P "D"
Mating Connector	KineticSystems Model 5934-Z1A
Power Requirements	
+ 5 V Reed Relay option	2.0 A, typical
+ 5 V All other options	1.9 A, typical
Environmental and Mechanical	
Temperature range	
Operational	0°C to +50°C
Storage	-25°C to +75°C
Relative humidity	0 to 85%, non-condensing to +40°C
Cooling requirements	10 CFM
Dimensions	340 mm X 233.35 mm X 30.48 mm (C-sized VXIbus)
Front-panel potential	Chassis ground



RELATED PRODUCTS

Model 5851-Bxyz Cable—50P "D" to Unterminated
Model 5851-Dxyz Cable—50S "D" to 50S "D"
Model 5851-Exyz Cable—50P "D" to 50S "D"
Model 5934-Z1A Connector—50S "D"

ORDERING INFORMATION

MODEL	DESCRIPTION
V345-EA11	24-channel Isolated Digital Input; Reed relay outputs
V345-EB11	24-channel Isolated Digital Input; Optical isolator outputs
V345-EC11	24-channel Isolated Digital Input; AC switch outputs

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