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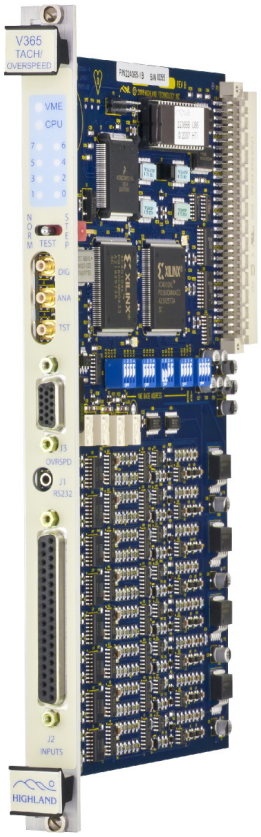
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HIGHLAND TECHNOLOGY

V365 tachometer with overspeed/underspeed

Features



- Intelligent 8-channel period/frequency/RPM measurement module
- Ideal for signal conditioning of magnetic speed pickups, flowmeters, and encoders
- High noise immunity ensures accurate measurement in industrial environments
- Internal signal conditioning accepts direct input from common speed sensors
- Register-based 16-bit VME module
- Incorporates four programmable overspeed/underspeed blocks with independent SPDT relay outputs

The V365 is a single-width, 6U height VME module designed specifically to acquire low frequency inputs from industrial speed sensors. The module can measure frequency and period over a wide dynamic range, and is specifically designed to ensure reliable measurement in high-noise industrial environments.

Differential signal inputs are signal conditioned, filtered and presented to the inputs of a custom gate array chip which manages period and frequency measurement.

The input signal conditioners can be connected directly to common transducer types, including variable reluctance or hall-effect magnetic speed pickups, AC line voltage or alternator windings up to 150 volts RMS, optical pickups, reed-switch or signal-conditioned fuel flow meters, contact closures, or other special levels.

Four independent programmable overspeed blocks are provided. Each may be aimed at any selected tachometer channel, and each is programmable to trip on static or latched overspeed or underspeed conditions. Control provisions include relay polarity and startup override, and provision is made for self-test of the overspeed facilities.

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Specifications : V365 tachometer with overspeed/underspeed

FUNCTION	8-channel signal conditioner/tachometer/overspeed module
DEVICE TYPE	16-bit VME register-based slave: A24:A16:D16:D08(EO) Implements 32 16-bit registers at switch selectable addresses in the VME 16 or 24 bit addressing spaces
INPUTS	Eight channels, numbered 0 through 7 Each channel has differential inputs, ground, and auxiliary +12 volt source Input impedance is > 60 K to ground on differential inputs Signal level inputs are configurable for standard TTL, open collector, AC generator, and variable reluctance sensor pickups Onboard signal conditioning includes VME-selectable gains, filtering/integration, and trigger levels to accept 10 millivolt to 150 volt RMS signals up to 100 kHz Inputs will tolerate 1000 volt transients for 50 µs
RANGE	32 bit period measurement with 20 ns LSB resolution, approximately 85 seconds maximum period Transparent interlock logic allows skew-free reading of 32-bit period data
ACCURACY	±0.005% ±1 LSB
RELAY OUTPUTS	Four isolated SPDT over/under speed output relays, Fujitsu type FTR-B3 Contacts rated 1 amp at 30 VDC, 0.3 amps at 120 VAC, resistive loads
RS-232 PORT	9600 baud RS-232 port is provided This provides for monitoring of module performance and permits channel configuration without requiring host CPU programming
OPERATING TEMPERATURE	0 to 60°C; extended MIL/COTS ranges available
CALIBRATION INTERVAL	One year
POWER	Standard VME supplies: +5 V: 0.5 A +12 V: 0.2 A -12 V: 0.15 A
CONNECTORS	D37 female connector for signal inputs and current-limited +12 volt excitation outputs HD15 female connector provides four SPDT relay contacts for overspeed/underspeed function 2.5 mm stereo phono connector for RS-232 serial port Three SMB signal monitor connectors present analog and digital signal levels of any selected channel and access test frequency signal
INDICATORS	Ten LEDs indicate processor heartbeat, VME access, and individual channel trigger activity
PACKAGING	6U single-wide VME module
CONFORMANCE	ANSI/VITA 1-1994 (R2002) VMEbus spec

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