VTX-SW and VTX-DIN guide

Relay alarms, local indication and reset behavior for machine monitoring

Document status - application guide and configuration review checklist. Use a controlled configuration datasheet, approved drawing and written quotation to define the delivered model, ratings, documents and commercial terms.

Choose the installation form

- VTX-SW - machine-mounted electronic vibration switch request, with alarm / relay behavior defined for the machine.
- VTX-DIN - cabinet-mounted indication and relay monitor request receiving a compatible 4-20mA vibration signal.

Identify the input or measured quantity, detector, full scale, relay functions, startup delay, alarm delay and reset method. The selected controller, sensor and contactor circuit must be reviewed together.

Define Alert and Trip independently

For each requested contact, state setpoint, hysteresis, delay, energized state, latching behavior, manual / remote reset and response to power loss or input fault. Confirm SPDT / DPDT arrangement and contact ratings for the actual inductive load.

State startup time and normal run-up vibration before choosing a bypass or delay. Delay settings must follow the machine protection assessment and the accepted model’s adjustment range.

A powered replacement needs a supply

When reviewing a passive mechanical switch replacement, confirm available external power, cable cores and power-loss behavior. Obtain the original mounting-hole pattern and contact diagram. Specify a transition plate only after checking geometry and machine access.

VTX-SW and VTX-DIN guide (continued)

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Control-room reset and local indication

Specify remote reset signal type, isolation, cable length, reset permissives and local indication. Record whether a maintained reset command could hold an alarm bypassed. Confirm alarm restoration after a power cycle.

For VTX-DIN, define rail / panel mounting, supply, input burden, loop power source, scale units and relay connections. A current-output sensor and a display must share a compatible loop budget.

Documents for a review

- Original complete model, suffix, nameplate and installation drawing.
- Machine run-up information, setpoint basis, contactor circuit and required power-loss state.
- Required controlled wiring diagram, configuration datasheet, contact ratings and reset procedure.
- Where applicable, configuration-specific area certificate and installation conditions.

Machine protection approval, safety function requirements and proof-test obligations belong to the complete machine design and accepted system documentation.

Request the exact quantity, destination, installation schedule and required documents. Confirm unit prices, installation-kit prices, calibration scope, transport, warranty and lead time in the quotation for the selected configuration.

Machine evaluation and engineering reference

Select the applicable ISO 20816 part and adopted edition for the machine, support, speed, measurement direction and operating state. Overall housing vibration and changes from a baseline support condition trending. A diagnostic bearing assessment may need high-frequency features or waveforms.

https://www.iso.org/standard/89922.html