

Vibration Switch



Applications

- Industrial Fans
- Compressors
- **Centrifugal Pumps**
- Motors
- Cooling Towers

Features

- Dual Alarms
- 3-digit LCD display
- 30-second start-up trip delay, prevents false alarms
- 4-20 mA output
- Velocity or Displacement response

Description

The 1-895 is a versatile multi-purpose Vibration Switch. It features a built-in accelerometer and solid state electronics. The 1-895 is available in a variety of ranges.

The 1-895 constantly monitors the vibration levels on critical machinery and provides timely feedback in the event of machine breakdown. There is a 30-second monitor start-up delay that is initiated by the application of power or the grounding of the start input.

The delay does not begin until the start input is released. The current vibration level is displayed on a 3-digit LCD, and output on a proportional 4-20 mA current loop. The alarm levels are set by two front-panel push-buttons and the display. Two alarm indicators are present and indicate when an alarm level is exceeded. The corresponding output is also enabled. The alarms are latched and must be reset at the 1-895 or via a remote alarm reset input.









1-895 Vibration Switch

Performance Specifications

Vibration Range (See ordering guide)

Velocity: inches per second (ips), peak

Acceleration: g's, peak

Displacement: mils, peak-peak Frequency Range: 5 Hz to 500 Hz ±3 dB

(internal sensor)

Alarm Setpoints: User programmable 0 - full scale

Alarm Outputs: Dual alarm relays are isolated

from system electronics

Analog Output: 4-20 mA current loop proportional

to the full scale output

Alarm reset / start inputs: External inputs must be shorted to

return to activate

Display: 3-digit LCD display 18-30 VDC @ 125 mA Power:

Temperature Range

Operating: 0°F to +185°F (-18°C to +85°C)

Storage: -67°F to +185°F (-55°C to +85°C)

Humidity: 0 to 95% relative humidity non-

condensing

I/O Connections

Power Connections: +24 VDC

-Return (24 VDC)

Analog Output: 4-20 mA+

4-20 mA-

Control Inputs: Start Input

Reset Input

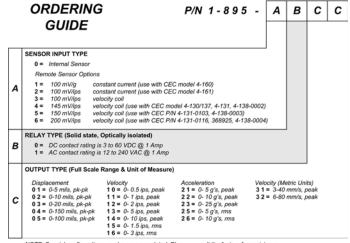
Alarms: 1 Out -

1 Out + 2 Out -

2 Out +

Ordering Information

In keeping with CEC's policy of continuing product improvement, specifications may be changed without notice.



NOTE: Special configurations can be accommodated. Please consult the factory for assistance.



The example unit is housed in an explosion proof enclosure. This switch has an internal sensor, and DC relay contacts. The display and 4-20 mA output are scaled for 0 to 2 ips, peak velocity.

© 2007 CEC Vibration Products Inc. All rights reserved.

Hazardous Approvals



North America

CSA C/US Class I, Division 2, Groups A, B, C and D Temp code T5; Max Ambient +85°C



European

ATEX EEx d IIC T5

Ta = -40°C to +85°C

