## 1-895

## Vibration Switch

## Applications



## 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.

- 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

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.


RoHS

## Performance Specifications

Vibration Range (See ordering guide)
Velocity:
Acceleration:
Displacement:
Frequency Range:

## Alarm Setpoints:

Alarm Outputs:

Analog Output:

## Alarm reset / start inputs:

## Display: <br> \section*{Power:}

Temperature Range
Operating:
Storage:
Humidity:
I/O Connections

## Power Connections:

## Analog Output:

## Control Inputs:

Alarms: g's, peak

4-20 mA+
4-20 mA-
Start Input
1 Out -
inches per second (ips), peak
mils, peak-peak
5 Hz to $500 \mathrm{~Hz} \pm 3 \mathrm{~dB}$ (internal sensor)
User programmable 0 - full scale
Dual alarm relays are isolated from system electronics
4-20 mA current loop proportional to the full scale output
External inputs must be shorted to return to activate
3-digit LCD display
18-30 VDC @ 125 mA
$0^{\circ} \mathrm{F}$ to $+185^{\circ} \mathrm{F}\left(-18^{\circ} \mathrm{C}\right.$ to $\left.+85^{\circ} \mathrm{C}\right)$ $-67^{\circ} \mathrm{F}$ to $+185^{\circ} \mathrm{F}\left(-55^{\circ} \mathrm{C}\right.$ to $\left.+85^{\circ} \mathrm{C}\right)$ 0 to 95\% relative humidity noncondensing

> +24 VDC -Return ( 24 VDC) Reset Input

## Ordering Information

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


1 Out +
2 Out -
2 Out +

## North America

CSA C/US Class I, Division 2, Groups A, B, C and D Temp code T5; Max Ambient $+85^{\circ} \mathrm{C}$


European
ATEX EEx d IIC T5
$\mathrm{Ta}=-40^{\circ} \mathrm{C}$ to $+85^{\circ} \mathrm{C}$



