JERGUSON®
A Division Of The Clark-Reliance Corporation

Specialists in Liquid Level Indication

Installation, Operation and Maintenance for

JVL Series Vibrating

Probe Level Switch

Section:	JS100
Bulletin:	JS100.23
Date:	10/1/04

FEATURES

- **Single Point Entry**
- **No Clog Detection**
- **Wide Adjustability**
- **Sense Powders as low as 0.2 g/cm3**

SPECIFICATIONS

Measurement ..... Single Vibrating tine

Temperature Range ..... Standard
..... wetside: -4°F to 212°F
..... dryside: -4°F to 140°F
..... Extended
..... wetside: -4°F to 302°F
..... dryside: -4°F to 140°F

Power Requirements ..... 120, 240 VAC ± 10%
..... or 24 VDC ± 6 volts

Power Consumption ..... approx. 5 VA

Contact Rating ..... 1 SPDT (240 VAC,
..... 30 VDC @ 3A)

Performance:

Selectable Sensitivity ..... Very High – for fluidized powders
..... High – for fine powders 0.2-0.5g/cm^3
..... Standard – bulk density 0.5g/cm^3
..... Low – sticky media

Pressure ..... 290 PSI

Vibration Frequency ..... 330 Hz

Enclosure ..... NEMA 4X

Sensor Material ..... 304 or 316 Stainless Steel

Connection ..... 1” NPT Std.

Net Weight ..... 4 lbs.

OPERATION

The JVL Series is made specifically for solids level measurement in containers. This sensor is designed for bulk density as low as 0.2g/cm3(12.5 lb./cu. ft.). The operating principle is a vibration rod mounted with two piezo electric elements; one providing vibration, and the other detecting changes in the vibration fre•quency. The piezo crystal sets up a 330 Hz oscillation and is dampened by the detection of the bulk material.

The JVL series is compact for high and low level detection on small and large silos us model JVL21. With less than eleven inches of insertion length the JVL11 can be top or side mounted. The top mount can be extended to provide high level alarms in silos (use model JVL21). The field selectable sensitivity allows this product to be used on a range of dry media ranging from fluidized powders to sticky medias. The single tine probe pro•vides a reliable level switch in products which may be sticky. The single tine probe will not become clogged.

ISO 9001 REGISTERED Clark•Reliance

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