

Frequency Sweep Level Switch

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Product Overview

The Level Switch LMFS is capable of faithfully detecting industrial fluids and powders using Frequency Sweep technology. Utilizing the resonance of electrical capacitance created by media di-electric and conducitvity, LMFS learns the signature of the media to be sensed and thus performs better than other level detection methods for fluids and powders.

A 50 to 300Mhz sweep signal of very low power (nano-watt) is applied to the electromagnetic resonating circuit formed by material capacitance, an analysis section scans the amplitude of resulting resonance, and thus assigns a frequency-amplitude relationship for a material type.

Since LMFS can identify materials distinctively, it is capable of media saperation and hence is designed to utilise the dual output and multi-color LED to provide different output for different material being sensed by it.

LMFS is designed to keep all settings at field level without any special requirement of configurator.

LMFS is able to work as Liquid Fork Simulator capable of detecting fluids without any calibration. Calibration is required for media separation and powder detection.

Model LMFS For General Industrial Applications

Features

- Frequency Sweep for material type detection
- Compact design with two independent outputs
- Suitable for media distinction
- Liquid fork simulation requires no calibration
- Process temperature -40 ... 125 °C, and 150 °C for 1 hour
- Suitable for materials with di-electric constant $\epsilon_{\rm r}$ >1.5
- Multicolor LED switch indicator, indicates type and output
- Maintenance free
- Fully field configurable without any special configurator
- Three output types are PNP, NPN, Push-Pull field configurable

Specifications

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Specifications are subject to change without prior notice

Ensing matters

Trumen Technologies Pvt. Ltd.

(an ISO 9001:2008 company) 39 Mangal Nagar, B/H Sai Ram Plaza, Nr. Rajiv Gandhi Circle, AB Road, Indore, MP, 452 001, India Phone: +91-731-497 2065 email: sales@trumen.in web:www.trumen.in