Baumer
Passion for Sensors

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CleverLevel LBFS/LFFS switch

Another Baumer **INNOVATION**

The really clever alternative to the vibrating fork level switch

Reduce how many different kinds of sensors you stock, but not your requirements.

- Fill level detection
- Media differentiation
- Detect liquids, granules, powders
- Sticky viscous, foaming medias are not a problem.

One sensor detects different media

With pulse width modulation (PWM), you are able to detect different media in the same processing line or processing tank to differentiate the final product (e.g. different kind of fish sauce, different style of beer, etc.). The process uses an analog time signal that facilitates continuous measurement. The time signal changes according to the Dk (dielectric constant) value of the media.

This makes the *CleverLevel* LFFS/LBFS unique as it:

- allows triggering on various media (e.g. mixing containers)
- facilitates monitoring changes in the medium's Dk value (e.g. measuring the purity of lubrication oils)

and enables you to

- identify which specific medium is currently flowing in the pipe (e.g. milk, water, CIP-fluid, etc.)
- take action if medium is polluted with another medium (e.g. oil polluted with water)

Pulse Width Modulation (PWM)

0 % Duty Cycle – analogWrite (0)
high
low

25 % Duty Cycle – analogWrite (64)
high
low

50 % Duty Cycle – analogWrite (127)
high
low

75 % Duty Cycle – analogWrite (191)
high
low

100 % Duty Cycle – analogWrite (255)
high