

Rosemount 2110 High Level Detection

RESULTS

- Reliable high level detection with no false switching
- Unaffected by build-up
- Lightweight and easy to install in thin wall tanks
- Maintenance is minimized with no moving parts
- PNP output for direct interface with PLC allows easy adoption to interface with DCS

APPLICATION

High-level detection in the channels carrying wash-water to band screens on the inlet to the water-works.

CUSTOMER

Water industry, water-works.

CHALLENGE

These tanks are often manufactured from thin wall material and will not support the weight of heavy instrumentation. The dirty wash water causes heavy build up that can adversely affect some instrumentation.

The instrumentation needs to be non-mechanical, reliable and low maintenance.

SOLUTION

The Rosemount 2110 Vibration Fork Level Switch is the perfect solution to reliably solve this application. The switches, being lightweight and available in $3/4$ -in. and 1-in. threads, can easily be fitted to the stainless steel channels using back nuts and sealing washers.

Due to its principle of operation, the 2110 works effectively even with a large amount of product build-up around the fork.

The 2110 is available with direct load switching or PNP/PLC switching output. Using the PNP/PLC output, the electrical switching can easily be adapted to interface with the DCS system already on site. Since the 2110 is non-mechanical with no moving parts, maintenance is minimized.

The built-in heartbeat LED of the 2110 gives a continuous indication of status.



Figure 1: The Rosemount 2110 Vibrating Fork Level Switch with its small forks and superior resistance to false switching will mount directly into the tank.



Figure 2: The Compact Vibrating Fork Level Switch installed in the horizontal half cylinder wash water channels.

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