

## Vibrating Level Switches



### Description

Vibrating level switches are suitable for level detection of liquids or granular, powdered solids. Units with parallel vibrating fork are suitable for liquid, units with non-parallel vibrating fork are suitable for solids. Mounted on pipes, silos, tanks or hopper bins filling / emptying can be controlled using these devices just as well they can generate failsafe alarms providing overflow- or dry run protection. The vibrating rod series of vibrating level switches are robust instruments designed for low and high level indication of Liquids, granules and powders with a minimum of 0.05 kg/dm<sup>3</sup> (50 oz/ft<sup>3</sup>) density. The operation principle is based on that the electronic circuit excites the vibration. When the medium reaches and covers, the vibration stops, when the medium leaves, it returns to vibrate freely. The electronics senses the change of vibration and gives output signal after a selected delay.

### Vibrating Rod

The series of vibrating rod level switches are robust instruments designed for low and high level indication of granules and powders with a minimum of 0.05 kg/dm<sup>3</sup> (50 oz/ft<sup>3</sup>) density. Mounted on tanks, silos or hopper bins it can control filling / emptying, or give fail-safe alarm signals. The highly polished version is recommended to use for abrasive mediums. The operation principle is based on that the electronic circuit excites the vibration in the rod probe. When the medium reaches and covers the rod vibration stops, when the medium leaves the rod it returns to vibrate freely. The electronics senses the change of vibration and gives output signal after a selected delay.

### Vibrating Fork

Vibrating fork level switches are suitable for level detection of liquids or granular, powdered solids. Units with parallel vibrating fork are suitable for liquids, units with non-parallel vibrating fork are suitable for solids. Mounted on pipes, silos, tanks or hopper bins filling / emptying can be controlled using these devices just as well they can generate failsafe alarms providing overflow- or dry run protection. The operation principle is based on the electronic circuit exciting the fork probe making it vibrate. As the medium reaches and covers the fork its vibration changes, or stops. The fork will start vibrating again as the medium sets it free. The electronics senses the change of vibration and gives output signal after a selected delay.