RAILWAY SWITCH POINT MONITORING

Wireless Monitoring of Rail Switch Position in Railcar Tanker Loading Areas

Confirm Alignment of Rail Switch Points Remotely With *Wireless*HART® Sensors

Where products are loaded and/or unloaded from rail-tanker cars, there are often multiple rail switch points that are manually positioned and monitored. Incorrectly aligned points can cause many operational issues including expensive delays and potential catastrophic accidents and derailments. Manually confirming the position of points is time consuming, prone to human error, and exposes workers to potentially dangerous environments.

Monitoring the position of the switch points using *Wireless*HART discrete transmitters and proximity switches removes the need for manual inspection of points; reduces time to prepare for tanker arrival, movement, and departure; and provides traceable assurance of correct line-up.

Manual monitoring using manual rail switch points is an inefficient use of manpower, risks human error, and exposes workers to dangerous environments.

*Wireless*HART Sensors Simplify Installation

The *Wireless*HART protocol is secure, reliable, and designed for harsh industrial environments. Wireless transmitters greatly reduce the cost and engineering effort to add discrete monitoring.

Featured Products:

- **Rosemount™ 702 Wireless Discrete Dual Input or Output Transmitter** connects to up to 2 non-powered switches.
- **TopWorx™ GO™** Switch detects like a proximity switch and functions like a limit switch, providing higher reliability when conventional switches fail.
- **Emerson Wireless 1410S2 Gateway** can connect to up to 200 wireless transmitters and communicate the measurements and diagnostics to control systems, historians, or maintenance systems using OPC, Modbus®, HART-IP ®, and Ethernet I/P.

The Rosemount 702 Wireless Discrete Transmitter, Topworx GO Switches, and Emerson 1410S2 Gateway are a part of the extensive WirelessHART solutions available.

For more information, visit
Emerson.com/IndustrialWireless

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