Keeping You On Track

The TopWorx™ GO™ Switch for Rail

Your proximity sensor should never compromise safety or reliability. From braking systems to crossing gates, it must operate without fail in many critical rail applications, all while withstanding vibration, water and other harsh operating conditions.

That's why we designed the **TopWorx™ GO™ Switch** to keep your operation on track. With its simple, robust and maintenance-free design, this all-in-one proximity sensor and limit switch successfully stands up to the demands of rail applications in ways conventional switches fall flat.

GO™ Switch Model 11
Extended Sensing

GO™ Switch Model 73
Precision Sensing

The Best of Both Worlds

GO Switch combines the positive elements of mechanical lever-arm and inductive proximity switches—but without the drawbacks.

- **Non-contact.** Each unit consists of a single moving part and uses magnetic activation to open and close a dry contact. No lever arm is required.
- **Powerless.** Unlike inductive switches, GO Switch doesn't consume power—making it ideal for solar-powered systems, remote locations and rolling stock.

To learn more, visit www.emerson.com/topworx

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TopWorx™ GO™ Switch for Rail

Rugged Design for Harsh Environments

GO Switch incorporates a one-piece stainless steel construction and sealed design, while its use of magnetic activation eliminates the need for power. As a result of this simple, yet robust design, GO Switch is impervious to lightning and electrical fluctuations, has a high tolerance for vibration and can operate in a wide temperature range (-50° to +200°C). GO Switch is globally certified to handle Class 1, Div 1 and submerged or wet environments.

Flexible Options for Remote Locations

The scale of rail operations, coupled with their remote, often inaccessible nature, drives up the costs to install, maintain and monitor equipment. GO Switch avoids these challenges due to its versatile “dry circuit” design and wireless capabilities, which eliminate extra wiring costs. It also easily adapts to any type of circuit or monitoring system without external devices.

GO Switch Features at a Glance

- Non-contact detection of ferrous metal and magnetic targets
- SPDT/DPDT contact configurations
- Requires no power, eliminating leakage current and voltage drops
- Resistance to vibration, corrosion and temperature
- Immune to electrical noise, weld fields and radio
- All-metal housing with contacts potted and sealed from the environment
- Multiple wiring options—lead wires, cables and quick disconnects
- Available custom mounting brackets for retrofitting existing switches
- Certified to Class 1, Div 1 and submerged or wet environments

GO Switch Rail Applications

Rolling Stock

- Locomotives and railcars
- Pantographs
- Material handlers
- Valve monitoring
- Tank hatch monitoring
- Hydraulic, pneumatic or cylinder position monitoring

Infrastructure

- Bridges—swing, lift, bascule and draw
- Track positioning
- Hump yard wheel counters
- Crossing gates
- Switch machines
- Signaling

Maintenance of Way (MOW) Equipment

- Hi-rail equipment
- Railcar movers
- Tie exchangers
- Surfacers
- Grinders
- Track construction
- Ballast maintenance

For more information: www.emerson.com/topworx

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