

THE MICRO SWITCH KEY ADVANTAGE:

Train sensing that keeps you on *the right track*



After performing its own tests, Burlington Northern Santa Fe selected MICRO SWITCH's 926FS30 Railwheel Proximity Sensors for permanent installation in its redesigned Kansas City classification and hump yard, similar to the one shown above.

Honeywell MICRO SWITCH's High-Speed Railwheel Proximity Sensors provide a more reliable strategy for detecting the presence of trains. Because track circuits can be compromised by leaves, salt, dust, dirt or rust, the Honeywell solution works independently from track circuits—delivering huge savings in track maintenance costs while vastly improving reliability. If you're relying on vigilantly maintained track circuits to detect the presence of trains, Honeywell Railwheel Proximity Sensors will get you off the maintenance track and put you on the right track.

With ten years of proven success in Europe, the 926FS30 Series is built on electromagnetic technology that consistently outperforms competitive products in field and operational tests.

Proven performance

"We did real life testing, using strip line charts, and oscilloscopes. We calculated the distance between the leading and the trailing edge of the wheel. Now we're using it as a regular unit..."

Unparalleled technical service

"...Honeywell MICRO SWITCH couldn't be more helpful in engineering a solution to our problems."

Bill Lefler, retarder yard specialist
Burlington Northern Santa Fe

Application versatility

- Detection of train presence, speed and direction
- Switch control
- Retarder brake systems
- Automatic Electronic Identification (tag reading) systems
- Hot bearing / flat wheel detection systems

Rugged construction

- Polarity independent—voltage may be reversed and sensor still works
- Short circuit, overvoltage, and transient protection
- Sealing to IP 68
- Wide temperature range
- Shock and vibration resistant

Quick, easy installation

- Underrail clamp option—no drilling or machining required
- Through-rail bracket set option
- Two-mile maximum length for connecting wires

Quality solutions from the worldwide leader in advanced switching and sensing technology.

Railwheel Proximity Sensors

The 926FS30 Series of Railwheel Proximity Sensors are specially designed and constructed for rail wheel detection at speeds up to 281 miles (450 km) per hour. These two-wire DC inductive proximity sensors also detect train speed and direction.

RDS-IN 1 Series
Interface Module

The superior reliability of the 926FS30 Series of Railwheel Proximity Sensors is built on Honeywell electromagnetic technology. The sensors consist of an oscillator, demodulator, and a trigger circuit that produces a digital current. The sensor's high-frequency oscillator contains an open magnetic circuit and creates an alternating current. This current generates an electromagnetic field. When a metal object, such as a railwheel, passes through the field, the oscillator is dampened, and the magnitude of the output current is reduced. Low- and high-frequency sensors are used together to prevent oscillators from influencing one another.



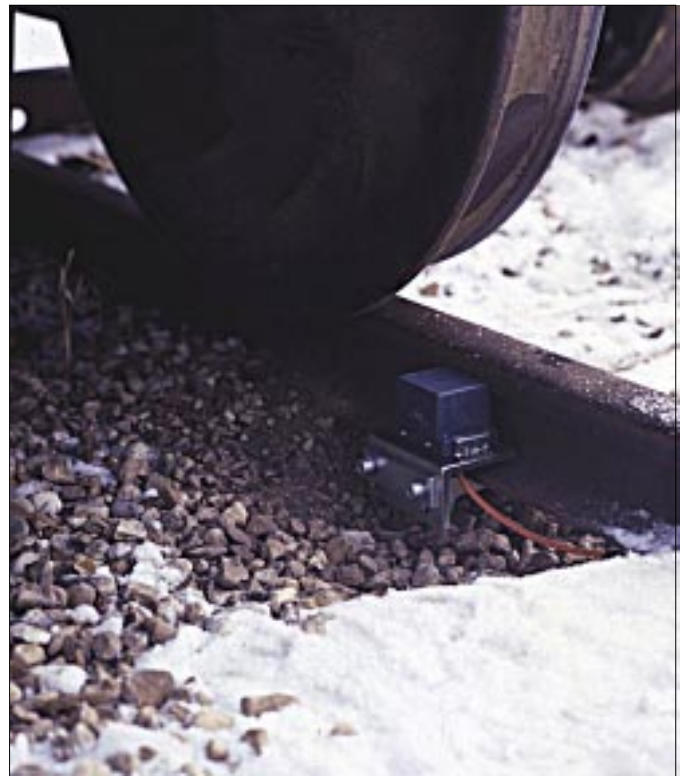
926FS30 Railwheel Proximity Sensor, mounted with RDS-CL-02 Through-Rail Bracket



926FS30 Railwheel Proximity Sensor, mounted with RDS-CL-01 Underrail Clamp

A bracket set also is available.

For quick and easy installation, the sensors may be attached to the track using an underrail clamp that requires no



Honeywell's 926FS30 Railwheel Proximity Sensor (shown mounted with the underrail clamp) is specifically designed for performance in harsh environments.

Sensing characteristics

Sensing distance, Sn (@25°C): 1.04 ± .02 in. (26,5 ± 0,5 mm)
w/ 2 x 3.5 x 0.4 in. (50 x 90 x 1 mm) St37 target without rail

Train sensing speed

Small wheels, 1.1 ft. (0,33 m) dia.:	156 mph (250 km/h)
Standards wheels, 3.6 ft. (1,10 m) dia.:	281 mph (450 km/h)
Large wheels, 5.4 ft. (1,65 m) dia.:	344 mph (550 km/h)

Designed to IEC standards

Get off the maintenance track!

Honeywell's train sensing technology and application services will keep you on the right track.

For more information, call Honeywell's MICRO SWITCH Division at

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