



# Intelligent Wireless Axle Counter

Tracing wagons for shunt yard managers



## Product benefits

- ✓ Robust system, developed for railway applications
- ✓ High accuracy, high repeatability
- ✓ Wireless (IoT) operation
- ✓ Battery operated (battery life time 5 years)
- ✓ Simple to install, remove and service
- ✓ Low total cost of ownership
- ✓ Open interface to 3rd party platforms
- ✓ Identification of all wagon types
- ✓ Direction and speed of train and individual wagons

## Application

Tracking individual freight train wagons on a shunting yard is tedious. Manual tracking is prone to mistakes and wagons are easily lost due to failing administration.

Simply counting passed axles has demonstrated its limitations as it gives only a rough estimate on the number of wagons that have passed. Asset Insight Intelligent Wireless axle counter enables the detection of the individual wagons of any train combination (passenger or freight), regardless if the wagons move forward, backward or are alternating in both directions.

Using the Asset Insight accurate mechanical detection system, the information from passed axles is converted into wagons information like speed, direction and bogie positions.

Worldwide deployment is guaranteed by using the wireless Internet of Things (IoT) LTE-M communication standard. The wireless connectivity can be tailor made to the plant owners requirements.



Using Asset Insight unique counting principle with two consecutive operated mechanical pedals, every passing wheel is detected irrespective of speed or direction.

After detecting a passage, the data is sent to the Asset Insight FlexMonitoring platform to be processed into speed, direction and bogie information.

This platform has an open interface (HTTP REST), available to other platforms

Technical specifications	
<b>Weight</b>	11 kg
<b>Dimensions sensor box (excluding brackets)</b>	140 mm x 310 mm x 155 mm
<b>Battery Lifetime</b>	5 years
<b>Minimum wheel diameter</b>	Ø33cm
<b>Maximum train speed</b>	40km/h
<b>Brackets and connection</b>	Multipurpose clamp construction, easy to install
<b>Connectivity protocol(s)</b>	LTE-M (others on request)



**Interested?**

Contact us via [info@assetinsight.nl](mailto:info@assetinsight.nl)