

Application Note

WIM Strip Sensors™

WIM Strip Sensors™ for Bridge Protection in Duisberg, Germany

traffic-lines GmbH (a division of Volkmann Strassen- und Verkehrstechnik GmbH) implemented a specialized bridge protection system for the A40 Rheinbrücke-Neuenkamp near Duisburg, Germany. This bridge is a vital



The solution using Intercomp's WIM Strip Sensors had tight installation confines.

"Intercomp's strip sensors provide the precision and reliability needed to quickly and accurately identify critical vehicles"

- Jennifer Diedrich, Key Account Manager at traffic-lines GmbH



Intercomp Strain Gauge Strip Sensors are engineered for accuracy, calibration stability, and long lifespan

part of the highway infrastructure, carrying high volumes of traffic between Essen and Venlo. The bridge needed protection from overweight vehicles using an automated, accurate, and durable system. In order to achieve this, they searched for products that would give precise weight measurement at highway speeds, long-term reliability in heavy traffic conditions, and small, low-impact installation.

Based on its accuracy, durability, and ease of integration, Intercomp's [Weigh-in-Motion Strip Sensors](#) were selected for the 4-lane-monitoring solution. The solution also included the WIMLogix unit, which enables real-time data processing and seamless integration with the customer's existing software. With this solution implemented, vehicles exceeding legal weight limits are detected and diverted before entering the bridge, minimizing the risk of structural damage.

traffic-lines GmbH now has a highly effective, low-maintenance system that safeguards the bridge, improves traffic safety, and reduces manual oversight. Their use of Intercomp's technology in critical infrastructure applications sets a benchmark for future bridge protection systems across the German highway network.



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