Impact Sentinel
by INGLAS GmbH & Co. KG

Real-Time Disaster Detection

The ImpactSentinel sensor detected a falling boulder breach, averting potential collisions with SBB trains in Switzerland, as seen in the pictures above and to the right, demonstrating its crucial role in railway safety

Images supplied by SBB

The **ImpactSentinel** system is a state-of-the-art real-time warning solution designed to monitor and instantly alert users to natural hazards.

This intelligent wireless sensor system detects and informs of immediate dangers, such as landslides, avalanches and rock falls, providing crucial extra time for quick responses. Easy to install and requiring minimal maintenance, the ImpactSentinel offers an additional layer of safety for investments in preventive measures. The versatility of our system enables it to be installed across different infrastructures including railways, roads, hydro-plants and various remote locations. With over 15 years of experience, **INGLAS** continues to innovate in electronic monitoring systems,

ensuring the ImpactSentinel remains a trusted, robust and imperative solution for hazard barrier monitoring worldwide.

Impact Detection & Warning Relayed in Seconds

The ImpactSentinel system stands as a crucial asset for companies aiming to prevent disaster scenarios in real time. By monitoring and instantly alerting users to natural hazards, it provides essential seconds that can make the difference between safety and catastrophe. Whether it's a control centre or a train operator, the system's rapid communication ensures immediate responses to threats like landslides, avalanches and rockfalls. These critical moments are vital for safeguarding lives and infrastructure, making the ImpactSentinel an invaluable component in disaster

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"The ImpactSentinel system averted a potential catastrophe, safeguarding lives & infrastructure."

In 2008, SBB commissioned a section of nets equipped with INGLAS's ImpactSentinel system to enhance safety on the Gotthard route. The system's effectiveness was dramatically demonstrated in 2012 when a large rock, measuring 150 cubic metres, breached the net. The patented pull-out mechanism of the ImpactSentinel system promptly triggered an instant alert, which was relayed to the SBB IT environment & forwarded to the control centre. Thanks to the swift response enabled by INGLAS's advanced alarm system, trains were able to stop in time, preventing a potentially fatal high-speed collision.

prevention strategies. The system's ability to be configured and controlled remotely adds another layer of responsiveness and flexibility, further emphasising the importance of every second in averting potential disasters.

Local but GLOBAL

With a proven track record across Europe, Asia and North America, ImpactSentinel is trusted by numerous organisations. Notably, we have a strong 16-year partnership with SBB railway in Switzerland. Since 2008, we have completed 24 projects together, with over 850 active sensors currently across the SBB network.

The ImpactSentinel system provides continuous 24/7 monitoring and can be customised to meet the specific needs of our clients. It offers a variety of installation options and requires minimal maintenance, making it an optimal choice for use in extreme environments.

With over 15 years of expertise and ongoing innovations, INGLAS's ImpactSentinel system stands at the forefront of real-time alarming and monitoring solutions. Committed to delivering the highest quality products and services, INGLAS has earned global trust for its elite electronic monitoring systems for hazard barriers.

Discover how ImpactSentinel can elevate your safety measures by visiting **www.inglas.org** or contacting us directly for more information.

Visit us at InnoTrans 2024 **Hall 6.1 | Booth 137**.

Click or scan the QR code for the InnoTrans Map

INSTANT DETECTION BY COMPACT, ROBUST AND RELIABLE SENSORS
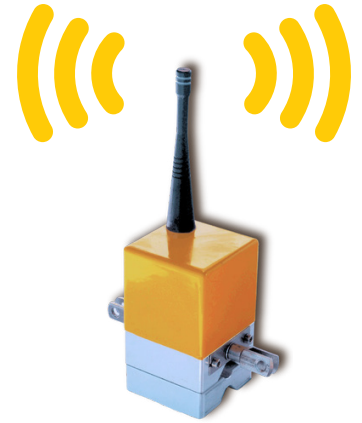
EASY TO INSTALL AND WITH LITTLE TO NO MAINTENANCE

INSTANT HAZARD DETECTION
FOR EUROPE'S PREMIER RAILWAY SYSTEMS