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Press Message

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Indian approval for the PLC-based Failsafe Network Multiplexer from Deltron and Pilz - One platform for all signalling tasks

Ostfildern, 22.07.2025 - **In future, the Failsafe Network Multiplexer (FNmux) from the Indian signalling technology manufacturer Deltron will be able to control automatic line blocks in India. The SIL 4 platform solution, based on the safe, modular railway control system PSSrail from the automation expert Pilz monitors interlockings, level crossings and signals. FNmux now has the necessary railway approval and is making a decisive contribution to the digitisation of the Indian railway infrastructure.**

FNmux is the result of a long-term collaboration between Deltron and the automation expert Pilz. In March, FNmux was officially approved by the Indian supervisory authority "Research Design and Standards Organisation" (RDSO).

A safe package

The SIL 4-capable signalling solution FNmux combines safety and control intelligence to monitor level crossings, interlockings and signals in automatic line blocks in a particularly cost-effective manner. The multiplex method is used, i.e. several signals are transferred simultaneously via optical fibre. FNmux thus enables technology openness, which is a crucial requirement in the rapidly growing Indian infrastructure. The innovation lies in the solution's modularity: via the inputs and outputs of the railway control system PSSrail, the solution can be adapted flexibly to a variety of applications in the extensive Indian Railways network, and is easily configured. With its real-time response, redundancy and reliability, PSSrail offers additional strengths when used at Deltron.

Future-proof railway control system

With this jointly developed solution, Deltron and Pilz are laying an important foundation for the digitisation of India's railway infrastructure. FNmux can be connected to other components across a range of manufacturers and is therefore equipped for digitisation tasks.

- [Further information on the safe railway control system PSSrail is available on the Pilz website.](#)

***Caption:** The SIL 4 platform solution FNmux from Deltron is based on the safe, modular railway control system PSSrail from Pilz and monitors interlockings, level crossings and signals. (Photo: © Pilz GmbH & Co. KG)*

You can find texts and images for downloading at:

<https://www.pilz.com/en-INT/company/press/messages/articles/246443>

Pilz - The Spirit of Safety

Pilz is a global supplier of products, systems and services for automation technology. As a pioneer of safe automation, Pilz creates safety for human, machine and environment. Founded in 1948, today the family business with its head office in Ostfildern is represented worldwide with 2500 employees in 42 subsidiaries and branches.

The technology leader offers complete automation solutions for Safety and Industrial Security on the machine. These include sensor, control and drive technology - as well as systems for industrial communication, diagnostics and visualisation. An international range of services with consulting, engineering and training completes the portfolio. Pilz solutions are used in many industries beyond mechanical engineering, such as intralogistics, packaging, railway technology, or the robotics sector for example.

Pilz in social networks

In our social media channels we give you background information concerning the company and the people at Pilz, and we report on current developments in Automation Technology.



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