

Hirose's FX31 Series Nominated for Product of The Year 2026

Hirose's FX31 Series has been nominated as the [Product of the Year by Elektronik.net](#), recognizing outstanding innovation, engineering excellence, and value within the automotive and mobility market. The Product of the Year awards honor products that demonstrate meaningful advancements in performance, design, and real-world application impact.



The [FX31](#) series is a high-current, Board-to-Board connector designed to meet the increasing power and reliability demands of next-generation automotive systems, including electric and hybrid vehicles. The connector supports high current transmission in a compact form factor, while delivering exceptional vibration resistance, addressing challenges traditionally solved with bulky busbars or screw-mounted solutions.

The FX31 series introduces several key innovations that enable efficient, reliable power distribution in demanding automotive environments:

- **High-current, Board-to-Board Power Transmission:** FX31 supports up to 25 A per contact, enabling stable power delivery for automotive ECUs (Electric Car Units) and power systems while reducing component size and weight compared to conventional solutions.
- **Floating structure for vibration resistance:** The connector's floating design absorbs board misalignment and mechanical stress caused by vibration, helping maintain electrical continuity without the need for screw fastening. This improves reliability in harsh vehicle operating conditions.
- **Simplified assembly and manufacturing efficiency:** By eliminating screw mounting and enabling Board-to-Board connection, FX31 reduces assembly time, supports automation, and contributes to lower manufacturing costs.
- **Compact alternative to busbars:** The FX31 series replaces larger, heavier busbar solutions, supporting system miniaturization and greater design flexibility in densely packed automotive modules.

Designed to meet the rigorous requirements of automotive applications, the FX31 series is manufactured using high temperature, RoHS2-compliant materials ensuring durability, long service life and reliable performance in high-heat and high-vibration environments.

Suitable applications include automotive applications specifically internal connector connections such as domain controllers, EPS (Electric Power Steering), Converters, Inverters, OBC (On-Board Chargers) and many other applications.

Key Features:

- Contact pitch [mm]: 9.5

- Number of contacts: 2
- Rated Current [A]: 25 per pin
- Rated Voltage [V]: AC/DC 800
- Operating temperature range [°C]: -40 to +125
- Mating cycles: 5
- Contact Resistance [mΩ]: 2
- Suitable for automotive applications

To show your support for FX31, please vote [here](#).

About HIROSE

HIROSE Electric Co., Ltd is a world-class Japanese manufacturer of high-quality connectors. Established in 1937, HIROSE uses advanced engineering services, excellent customer service and worldwide manufacturing capabilities to provide technically advanced connector solutions for many industries such as industrial, automotive, consumer and many others.

European offices were established over 30 years ago to compete internationally in Europe. In 2010, The European offices were merged together to form [HIROSE Electric Europe B.V](#) to serve the EMEA market better. The European headquarters is based in Amsterdam, The Netherlands. Other European branches are located in Germany, UK, France, and Italy. For more information about HIROSE or our products, please contact us.

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