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Mitsubishi Electric's MELSEC iQ-R Series Safety Programmable Controller Obtains EU Type Examination Certificate for EU Machinery Regulation

Enables people and machines to work safely together while optimizing maintenance and operations



EU Machinery Regulation certification ceremony

Keisuke Shiotani, General Manager, PC Systems Dept., Nagoya Works, Mitsubishi Electric Corporation (left), and Frank Piller, Director and Senior Vice President, Industrial Services & Cybersecurity, Asia Pacific, TÜV Rheinland Japan Ltd.

TOKYO, September 17, 2026 – [Mitsubishi Electric Corporation](https://www.mitsubishi-electric.com) (TOKYO: 6503) announced today that its [MELSEC iQ-R Series safety programmable controller](#) has obtained an EU type examination certificate from TÜV Rheinland, a world-leading independent certification body. The certificate confirms conformity with the EU Machinery Regulation (Regulation (EU) 2023/1230). This is the first certification of its kind for Mitsubishi Electric's factory automation (FA) business, establishing Mitsubishi Electric as one of the world's first companies to receive this certification. It is also the first EU type examination certificate to be audited by TÜV Rheinland Japan Ltd.

The concept of safety of machinery is gaining acceptance worldwide. Based on the fundamental assumptions that “people make mistakes” and “machines fail,” it seeks to ensure the safety of manufacturing sites through design and control technologies. In Europe, the EU Machinery Regulation (Regulation (EU) 2023/1230) will become mandatory on January 20, 2027, replacing the current EU Machinery Directive (Directive 2006/42/EC). As the legal framework governing the safety of machinery and other related products placed on the European market, the EU Machinery Regulation requires manufacturers of machinery and components to ensure conformity with its requirements. In addition to existing requirements for physical functional safety,

the EU regulation has introduced new mandatory cybersecurity requirements concerning software, network connectivity, and remote access.

Safety programmable controllers differ from standard programmable controllers in that they can detect failures and safely stop operations on their own. They are widely used in systems where failure could result in personal injury, such as emergency-stop systems for machinery and equipment. Mitsubishi Electric’s MELSEC iQ-R Series safety programmable controller received the EU type examination certificate for its ability to perform both general control and safety control with a single controller, use CC-Link IE TSN¹ to connect with drive products such as servos and inverters, and strengthen safety based on its design as well as measures to prevent cyberattacks, including unauthorized access, software tampering and other malicious activities.

Mitsubishi Electric is promoting the adoption of its reliable safety programmable controllers and advancing the development of related technologies and products. Through these efforts, Mitsubishi Electric aims to promote collaborative safety,² in which people and machines coexist and work safely in the same space, thereby enabling the company’s FA business to offer optimized maintenance and operations.³ Mitsubishi Electric is also striving to reduce workloads related to designing, verifying and ensuring that machinery and equipment using its programmable controllers for the European market comply with the EU Machinery Regulation.

Safety Programmable Controller with EU Type Examination Certificate

Series	MELSEC iQ-R safety programmable controller (Launched on July 31, 2015)
Key Features	• Certified to international safety standards EN ISO 13849 PL e⁴ and EN 61508 SIL 3⁵ • Enables both general and safety control with a single controller • Connects to drive products, such as servos and inverters, via CC-Link IE TSN



Keisuke Shiotani, General Manager of the PC Systems Dept. at Mitsubishi Electric Corporation’s Nagoya Works, said: “We are very pleased that our safety programmable controller has been recognized as conforming to the EU Machinery Regulation. Mitsubishi Electric’s FA systems business aims to achieve enhanced automation through advanced technologies. Our initiatives strive to deliver the value proposition ‘optimized maintenance and operations.’ Ensuring that our safety programmable controller conforms to the EU Machinery Regulation is one such initiative. When used with our drive products, the safety programmable controller can help achieve collaborative safety and superior production equipment. We will continue to contribute to advancements in safety of machinery by manufacturing products that comply with the latest safety requirements.”

¹ Industrial Ethernet that enables high-speed, high-precision connections between machinery and equipment on the factory floor, allowing control and information communications to be carried over a single network.
https://www.MitsubishiElectric.com/fa/products/cnt/plcnet/pmerit/cclink_ie_tsn/concept/index.html
² A safety concept in which people, things, and the environment work together to ensure safety by sharing information.
³ Explained at Mitsubishi Electric’s IR Day 2026 (Factory Automation Systems Business 2026).
https://www.MitsubishiElectric.com/en/pr/2026/pdf/0529_co3.pdf
⁴ Performance Level specified under international safety standards.
⁵ Safety Integrity Level defined under international safety standards.

About TÜV Rheinland Group

TÜV Rheinland is a leading provider of testing and inspection services worldwide. For over 150 years, the company has helped make the world a safer place. Today, more than 29,000 employees test, inspect and certify products, plants and processes, while also providing training for people in a wide range of professions. Operating from 500 locations in more than 50 countries, TÜV Rheinland helps safeguard key areas of business and everyday life. Headquartered in Cologne and generating annual revenue of close to €3 billion, the company plays a key role in quality assurance worldwide. TÜV Rheinland has been a member of the UN Global Compact since 2006, demonstrating its commitment to anti-corruption and sustainability. Website: www.tuv.com

“MELSEC iQ-R” and “CC-Link IE TSN” are registered trademarks or trademarks of Mitsubishi Electric Corporation in Japan and/or other countries.

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About Mitsubishi Electric Corporation

Guided by its [corporate philosophy](#), Mitsubishi Electric Corporation (TOKYO: 6503) places sustainability at the core of its operations and values stakeholder trust—encompassing society, customers, shareholders and employees. In pursuing profitability, capital efficiency and growth, Mitsubishi Electric works closely alongside customers to develop value-added solutions that address today’s complex challenges while enhancing the company’s sustainable corporate value.

Founded in 1921, Mitsubishi Electric has over a century of experience in delivering reliable, high-quality products and solutions. With over 200 group companies and approximately 150,000 employees worldwide, the company is a recognized global leader in manufacturing, marketing and selling electrical and electronic equipment and systems across a broad range of sectors, including public utility systems, energy systems, defense and space systems, factory automation systems, automotive equipment, building systems, air conditioning systems & home products, digital innovations, and semiconductor & devices.

Mitsubishi Electric recorded consolidated revenue of 5,894.7 billion yen (U.S.\$ 36.8 billion*) in the fiscal year that ended on March 31, 2026. For more information, please visit www.MitsubishiElectric.com

*JPY 160=USD 1, the approximate rate on the Tokyo Foreign Exchange Market on March 31, 2026