

Shortest response times for higher measurement accuracy and more dynamics

Fast I/O communication via sercos with IndraControl S20 from Rexroth

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The new real-time I/O System IndraControl S20 leads to increased control quality, which is required for shorter cycle times and higher precision.

In order to implement higher dynamics into shorter cycle times, controls have to respond more quickly to measurement data. Rexroth fulfills these requirements with its new real-time I/O System IndraControl S20, simplifying machine periphery connection via the automation bus sercos. The robust system enables faster update times for 256 I/O to less than 6 μ s, for 1024 I/O to a maximum of 13 μ s. This leads to increased control quality, which is required for shorter cycle times and higher precision.

IndraControl S20 ensures real-time data flow between control and periphery. It connects fast sensors and actuators with the network via the system bus and the bus coupler. The system ensures constant cycle synchronization with the automation bus sercos, an internationally accepted standard for Ethernet-based real-time communication. The I/O modules, which can be extended modularly, each require an update time of 1 μ s only. As a result, minimal update times can be achieved even in the maximum expansion stage with up to 63 I/O modules for each bus coupler. Process control has been improved

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Press Release

because measurement results are detected and transmitted more quickly. This enables shorter cycle times and higher precision.

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The IndraControl S20 System is designed for robust operation and has been tested in extensive continuous shock tests. Adjustable filter times improve electromagnetic compatibility, and reduced radiation safeguards long-term investment. The tool-free cable assembly simplifies wiring and maintenance. In case of error the user can simply disconnect the plug and replace the electronic module.

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