

Rexroth IndraControl XM series programmable logic controllers integrate I/O for speed and flexibility

The IndraControl XM control family combines the speed of the Sercos automation bus with Rexroth's IndraControl S20 I/O series in one functionally complete and modular control system

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For Immediate Use



Bosch Rexroth's IndraControl XM21/22 programmable logic controller further contributes to the speed and flexibility of the IndraControl XM series.

The IndraControl XM platform is easy to configure and features high-performance real-time data processing capabilities. The Rexroth family of programmable automation controllers, XM 21/22/42 integrates the modular IndraControl S20 I/O series into the controller. When combined with the Ethernet-based Sercos automation bus, speed and flexibility are added for a complete and scalable control system ready for IoT / Industry 4.0.

IndraControl XM 21/22: Easy and flexible system configuration with modular I/O expansion

Bosch Rexroth's IndraControl XM21/22 programmable logic controllers (PLC) combine the speed of the Sercos automation bus with the IndraControl S20 input/output (I/O) series for one functionally complete and scalable control system. The controllers are available with either an Intel® 600 or 1,300 MHz ATOM processor (XM21/22), along with an onboard Sercos master featuring a cycle time as low as 250 µs for I/O and motion.

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The XM 42: Highest performance for high-end automation

Rexroth's IndraControl XM42 expands the XM range to provide scaled modularity and a fully functional control system for more demanding factory automation applications. Large PLC programs and up to 250 axes of motion can be controlled. The XM42 hardware uses multi-core performance with a powerful Intel Core i series multi-core processor, providing shortest execution time for logic, motion and Ethernet-based connectivity.

Flexibility, high performance real-time processing

Ideal for all factory automation and motion logic applications, the IndraControl XM platform is easy to configure and features high-performance real-time data processing capabilities.

By integrating the company's modular IndraControl S20 I/O series into the controller, Rexroth adds to the flexibility of the control system. Optional extension modules further expand the integration options, while a service-friendly design reduces installation costs.

Decentralized I/Os, drives and additional system machinery are connected by Ethernet-based Sercos as a universal automation bus for system-wide networking. Enhancing the scalability, the XM controller uses Rexroth's standard IndraMotion MLC system firmware for motion logic applications.

Compatible with a wide range of control topologies, the IndraControl S20 I/O units feature short module reaction times of 1 μ s per module for efficient production cycles and real-time signal processing of measuring systems and intelligent sensors, even under extreme conditions.

Ready for IoT / Industry4.0

The XM21/22/42 controllers were built with connected industry in mind. This allows integration of the programmable automation controllers, XM 21/22/42, into a wide range of automation systems, for a truly connected solution. All fully utilize the features of Rexroth's Open Core Interface, opening the door to multiple software development environments using a standard SDK, tailored for each development software. Beside the Open Core Interface (OCI), the user can extend the controllers with functionality such as SafeLogic, Multi-Ethernet fieldbus interfaces, OPC UA server/client, webserver, WebAssist, hydraulic motion, robotic control, technology libraries and more.

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For more information on the IndraControl XM series, visit www.boschrexroth-us.com/XM.

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About Bosch Rexroth

As one of the world's leading suppliers of drive and control technologies, Bosch Rexroth ensures efficient, powerful and safe movement in machines and systems of any size. The company bundles global application experience in the market segments of Mobile Applications, Machinery Applications and Engineering, and Factory Automation. With its intelligent components, customized system solutions and services, Bosch Rexroth is creating the necessary environment for fully connected applications. Bosch Rexroth offers its customers hydraulics, electric drives and controls, gear technology, and linear motion and assembly technology, including software and interfaces to the Internet of Things. With locations in over 80 countries, more than 30,500 associates generated sales revenue of approximately 5.5 billion euros (\$6.2 billion) in 2017.

To learn more, please visit www.boschrexroth-us.com

About Bosch

Having established a regional presence in 1906 in North America, the Bosch Group employs nearly 34,500 associates in more than 100 locations, as of December 31, 2017. In 2017 Bosch generated consolidated sales of \$13.7 billion in the U.S., Canada and Mexico. For more information, visit twitter.com/boschusa, twitter.com/boschmexico and www.bosch.ca.

The Bosch Group is a leading global supplier of technology and services. It employs roughly 402,000 associates worldwide (as of December 31, 2017). The company generated sales of 78.1 billion euros (\$88.2 billion) in 2017. Its operations are divided into four business sectors: Mobility Solutions, Industrial Technology, Consumer Goods, and Energy and Building Technology. As a leading IoT company, Bosch offers innovative solutions for smart homes, smart cities, connected mobility, and connected manufacturing. It uses its expertise in sensor technology, software, and services, as well as its own IoT cloud, to offer its customers connected, cross-domain solutions from a single source. The Bosch Group's strategic objective is to deliver innovations for a connected life. Bosch improves quality of life worldwide with products and services that are innovative and spark enthusiasm. In short, Bosch creates technology that is "Invented for life." The Bosch Group comprises Robert

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Bosch GmbH and its roughly 440 subsidiary and regional companies in 60 countries. Including sales and service partners, Bosch's global manufacturing, engineering, and sales network covers nearly every country in the world. The basis for the company's future growth is its innovative strength. At 125 locations across the globe, Bosch employs some 64,500 associates in research and development.

Additional information is available online at www.bosch.com, www.iot.bosch.com, www.bosch-press.com, www.twitter.com/BoschPresse.

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