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Open for more possibilities
Rexroth’s decentralized IndraDrive Mi servo drive with Multi-Ethernet

Thanks to a Multi-Ethernet interface the IndraDrive Mi simplifies the realization of the most varied automation structures with one single type of hardware.

With its decentralized IndraDrive Mi servo drive, Rexroth paves the way for speedy engineering, the simple realization of modular machine concepts, and effective safety concepts. Using a Multi-Ethernet interface, the IndraDrive Mi makes it easy to handle the most varied automation structures with one single type of hardware. In addition, it also allows for Ethernet components to be connected directly to the drives, thereby further reducing the amount wiring needed. The certified safety function STO (Safe Torque Off), which is integrated into the drive, increases the degree of freedom for modularization in machine engineering.

The Multi-Ethernet interface of the IndraDrive Mi reduces the configuration of the communication protocols SERCOS III, PROFINET IO (RT), EtherNet/IP and EtherCAT to a mere adjusting of software settings. As a result, OEMs are able to implement the different automation structures requested by end users with one single type of hardware. This makes logistics and spare parts management significantly easier.

The decentralized servo drives reduce the amount of wiring needed by up to 85% compared to conventional solutions. By enabling additional Ethernet
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actuators and peripheral devices to be connected directly to the drive, these components no longer need to be wired all the way into the control cabinet, which brings installation costs down. Users can now connect Rexroth’s pneumatic and hydraulic actuators to the IndraDrive Mi via SERCOS III and access these actuators via the control system.

The integrated “Safety On Board” function Safe Torque Off (STO) eliminates hardware and reduces the need for wiring. Axes equipped with STO ensure operational safety without requiring an additional control system. When the STO function is activated, the drive will interrupt the current to the connected motor within mere milliseconds. This safely prevents a stopped engine from being restarted accidentally by the drive. The STO function in the IndraDrive Mi is certified Cat 4 PL e according to EN ISO 13849-1 and SIL 3 according to EN 62061.

For a list of specifications as well as available features and accessories please visit www.boschrexroth-us.com

Bosch Rexroth AG is one of the world’s leading specialists in the field of drive and control technologies. Under the Rexroth brand name, the company supplies more than 500,000 customers with tailored solutions for driving, controlling, and moving. Bosch Rexroth is a partner for Mobile Applications, Machinery Applications and Engineering, Factory Automation and Renewable Energies. The company provides customized solutions tailored to the needs and specifications of each individual market. As The Drive & Control Company, Bosch Rexroth develops, produces, and sells components and systems in over 80 countries. As part of the Bosch Group, Bosch Rexroth and its 38,400 associates generated approximately 6.4 billion euros ($8.9 billion) in revenue in 2011.

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

In the U.S., Canada and Mexico, the Bosch Group manufactures and markets automotive original equipment and aftermarket products, industrial drives and control technology, power tools, security and communication systems, packaging technology, thermotechnology, household appliances, solar energy, healthcare telemedicine and software innovations. Having established a regional presence in 1906, Bosch employs over 22,500 associates in more than 100 locations, with sales of $9.8 billion in fiscal year 2011, per preliminary figures. For more information, visit www.boschusa.com.
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