

Bosch Rexroth offers digitalization of analog interfaces in hydraulics via IO-Link

Additional connection for bi-directional communication in parallel to field bus

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Lower connection costs for components thanks to an M12 connector and electronic name plate. (Copyright: Bosch Rexroth AG)

Reduced connection costs and increased uptime: Rexroth harnesses the benefits of the IO-Link open standard for hydraulic actuators and sensors. Our popular 4WRPEH proportional control valves and HEDE10 pressure switches are now available with IO-Link interfaces via a decentralized, fast IO-Link Master IP67 I/O system, S67E. That means that users now have direct access to all data provided by the actuator/sensor in addition to the field bus.

Industry 4.0 is often much closer than we think: While individual suppliers offer proprietary solutions for networking of machine peripherals and better utilization of data, there are established and open standards that do exactly the same thing. IO-Link is supported by approximately 150 companies and enables digital communication of peripherals with control in parallel to common field buses. With proportional valves and pressure switches, Bosch Rexroth now offers the first hydraulic actuators and sensors with these networking capabilities. By adding IO-Link capabilities to these products, Rexroth continues to promote the integration of fluid technology into Industry 4.0 applications since IO-Link enables vertical connection of components all the way into IT systems.

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IO-Link standardizes and simplifies wiring thanks to standard M12 connectors with unshielded 3-conductor/5-conductor cables, eliminating any need for time-consuming and mistake-inducing individual hand wiring. Project planning can be performed using the engineering tool of the respective PLC manufacturer. All modules needed for communication are available for free with the IoT-ready PLC systems ILC, as well as Motion Control systems. In combination with IndraWorks Engineering, they enable direct access to project planning, parameterization and testing. The parameters can always be adapted to any new operating conditions.

The standardized electronic name plate of these plug & play devices reduces machine and system downtime. Remote access by authorized maintenance personnel allows them to call up and evaluate operating conditions such as temperature, operating hours and error status during running production as part of a predictive maintenance concept. Wear and system errors can be predicted before failure occurs and causes machine downtime, with any devices needing servicing located and displayed. Thanks to IO-Link, no specialized training is needed to replace devices: Components are clearly identified via site ID and an electronic name plate for easy replacement using interchangeable components. Parameterization is carried out automatically by the IO-Link Master without any need for additional action by the technician. As a result, replacement of components can be completed successfully without causing any additional problems.

Following the 4WRPEH proportional valve and the HEDE10 pressure switch, Bosch Rexroth intends to outfit additional hydraulic actuators and sensors with IO-Link interfaces to continually round out the product range.

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,

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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

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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 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](https://twitter.com/BoschPresse).

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