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**Press release of Murrelektronik**



**Efficient and economical installation concepts with IO-Link**

*The smartest way of automation without control cabinets*

Modern machinery and plants gather and link more and more data. As a consequence, the complexity of production processes has been increasing steadily for the last few years. Therefore, the main goal is to establish unified communication standards to simplify the way of data collection and handling. IO-Link creates transparency all the way from the sensor-actuator level to the cloud. The results are reduced costs and increased productivity. Moreover, it opens new possibilities of service and maintenance as well as the shortening of commissioning time. Murrelektronik is your expert when it comes to creating an infrastructure for data transmission.

The compact IO-Link Master Modules MVK Pro and IMPACT67 Pro with eight multifunctional master ports are the latest addition to Murrelektronik’s IP67 rated I/O system. The L-coded M12 ports allow for daisy-chaining and provide up to 2 x 16 A power. Each is available for PROFINET, Ethernet/IP and EtherCAT protocols.

By taking full advantage of IO-Link capabilities, the system makes it easy to get the needed input and output data from your machines and systems. With our IO-Link hubs and analog converters you can easily connect digital and analog signals to the IO-Link master using a standard sensor cable. This not only reduces your cabling effort but also simplifies commissioning, service, and diagnostics.

**MVK Pro and Impact67 Pro**

IP67 rated fieldbus modules are an important component in decentralized installations. They replace complexly wired and expensive terminal boxes. MVK Pro and IMPACT67 Pro, Murrelektronik‘s compact IO-Link master modules with eight multifunctional master ports, are the most intelligent way to connect IO-Link devices.

**Data Analytics – real time power and data monitoring**

In addition to pure process data (I/Os), the new Pro modules also provide secondary extended diagnostic data (voltage, current and temperature values) for both the respective ports and the entire module. This allows anomalies to be detected and the actual process to be optimized via data analysis. With the help of OPC UA, this can be done completely without a controller using a standard protocol.

**Global, control-independent deployment**

The new MVK Pro and IMPACT67 Pro IO-Link master modules support the leading industrial fieldbus protocols (PROFINET, Ethernet/IP and EtherCAT). With a wide range of functions, the new master modules are designed for applications that requires maximum performance and absolute reliability.

**The most flexible port ever – IO-Link Class A/B master port**

The innovative IO-Link master ports A/B from Murrelektronik are absolute all-rounders: Whether IO-Link, DI, DO, DIO, or any combination – the function can be configured at each pin (2 and 4). Intelligent switching of the supply voltage means that the correct voltage supply is always used: Actuator supply for DOs and sensor supply for DIs. IO-Link devices with high power requirements can be supplied directly from the module without cross-feeding – thanks to the additional supply of up to 2 A at each IO-Link port.

**Maximum power in the smallest space – M12 Power (L-coded)**

The compact M12 power cables (L-coded) for the masters are particularly powerful (up to 16 A per pin). Daisy chaining the power supply across several modules simplifies installation and reduces cable runs.

**Easy configuration with IODD on board**

IODD on board simplifies the integration of IO-Link devices into installation systems. IODD data sets are integrated directly into the MVK Pro and IMPACT67 Pro’s GSDML (PROFINET configuration file). This allows the IO-Link devices to be configured quickly and easily in the PLC. When an IO-Link-capable sensor or actuator is connected, the modules access these device description files directly without manual parameterization or special tools. The advantage: fast integration, short commissioning times and maximum flexibility.