IO-Link Master in IP67

Turck's IO-Link masters offer some specifics: With SIDI the IO-link devices can be integrated with a drag-and-drop operation in the control project. Turck's TBPN is also the only block I/O module that transmits safe signals and IO-Link data on one line to the control.

IO-Link masters are the link for digital communication, covering the "last meter" to the sensor or field level. They allow the easy integration of IO-Link devices such as sensors and field devices, I/O hubs, valve manifolds, robot grippers or motors. In addition to the modular systems BL20 and BL67, Turck offers three compact IO-Link masters in block design and IP67 protection for installation directly on the machine. Thanks to the Turck multiprotocol, two of the block modules are interoperable with the Ethernet protocols PROFINET, Ethernet/IP or Modbus TCP/IP and can be used without manual intervention.

The TBEN-L5-8IOL offers eight IO-Link master ports, of which four provide an additional actuator supply (IO-Link class B) for example for the connection of valve manifolds. For particularly energy-hungry devices, port 1 and port 5 provide up to 4 A. The supply voltage can be individually switched off for all ports to establish an intelligent energy management. Turck's smallest IO-Link master is even more compact: On 32 mm, the TBEN-S2-4IOL provides four IO-Link master ports directly in the field.

Both IO-Link masters of the TBEN series offer Turck's simplified IO-Link device integration SIDI (Simple IO-link Device Integration). In PROFINET engineering environments IO-Link devices from Turck and Banner can be added with a drag-and-drop operation to the hardware-architecture and configured. Programming is not necessary. Both TBEN-IO-Link masters can run simple control tasks autonomously as Field Logic Controllers (FLC). This allows users to work in small applications without additional PLC. In larger applications, the FLC function relieves the higher-level control system. Configuration and programming is done via the web-based engineering system ARGEE that adapts to the requirements of the respective application with its two modes "Flow" and "Pro".

In addition to its four security ports, Turck's hybrid safety PROFINET/PROFIsafe block module TBPN has four more classic I/Os, of which two can also be used as IO-Link ports. Through the connection of I/O hubs the module can be flexibly adapted to the needed signal configuration. The module thus offers up to 32 classic I/Os, in addition to the four safe signals, that can be connected via two TBIL I/O-hubs. The power supply of one of the two IO-Link ports can be safely switched off in the module according to SIL3/PLe in accordance with EN IEC 62061/EN ISO.

TBPN.jpg:

Absolutely flexible! Turck's hybrid PROFINET/PROFIsafe module TBPN has also two IO-Link master ports in addition to four secure channels

Ethernet-block I/O module TBEN-L-8IOL and the even more compact TBEN-S2-4IOL are rugged IO-Link masters for industry 4.0 scenarios

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