

SPS IPC DRIVES 2016

## IP67 controller with Codesys 3

Turck's TBEN-L-PLC compact controller enables the creation of modular machine concepts for Industry 4.0 without the need of a control cabinet. CANopen and J1939 are supported.

Turck is presenting its TBEN-L-PLC Codesys 3 controller as an IP67 PLC for controlling small or modular machines at the SPS IPC Drives 2016. Due to its housing and protection, the Tben-PLC can operate directly in the field and thus enables the implementation of machine and plant controls without the need for a control cabinet. Machine automation concepts and the use of pre-assembled cables reduce the cabling effort and simplify commissioning. Decentralized solutions without the use of control cabinets also save time and costs.

When used as a master, the device supports CANopen, J1939, and Modbus RTU, in addition to the industrial Ethernet protocols Profinet, Ethernet/IP, and Modbus TCP. The EIA-232 and EIA-485 serial interfaces can also be used as required in Codesys. The block I/O controller offers eight universal I/O channels for the direct connection of sensors and actuators.

Tben-PLC can be run as a slave (respectively device) in the Ethernet networks Profinet, Ethernet/IP, and Modbus TCP, as well as in Modbus RTU and CANopen networks, which enables it to be used as a protocol converter. For example, the controller can operate as the CANopen manager of a machine module networked with CANopen and connect this module to a system running with Profinet. As part of the increasing digitization of the industry, this enables existing machine concepts to be made fit for the challenges of closely networked, flexible production.

When combined with Turck's safety block I/O module and other Turck I/O technology with IP67 protection, machine controls including safety technology can be implemented without the need for control cabinet. Turck presents its products in hall 7, stand 351.



*TBEN-L-PLC brings the controller to the field and enables the creation of modular machine concepts (Photo: Turck)*

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