

Compact IP67 Controller with Codesys 3

Turck's robust TBEN-L-PLC compact controller enables the creation of modular machine concepts for Industry 4.0 without the need for a control cabinet

Mülheim, October 27, 2016 – Turck is presenting its TBEN-PLC Codesys 3 controller as a compact IP67 PLC for controlling small or modular machines. Thanks to its robust housing and high degree of 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.

The large number of communication interfaces underlines the tremendous flexibility of the new TBEN-PLC: When used as a master, the device also supports Modbus RTU, CANopen and SAE J1939 in addition to the industrial Ethernet protocols Profinet, EtherNet/IP and Modbus TCP. The RS232 and RS485 serial interfaces can also be used as required in Codesys. The block I/O controller also offers eight universal I/O channels for the direct connection of sensors and actuators.

TBEN-PLC can also 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 industry, this enables existing machine concepts to be made fit for the challenges of closely networked, highly flexible production.

When combined with Turck's safety block I/O module and other Turck I/O technology with IP67 protection, comprehensive machine controls including safety technology can be implemented without the need for control cabinet.

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Control cabinets belong to the past: TBEN-PLC brings the controller to the field and enables the creation of modular machine concepts

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