Turck has a new generation of block I/O modules with extended temperature range from -40…+70 °C. The module series TBEN (Ethernet) and TBDP (PROFIBUS-DP) can also be used in climates and applications, in which nearly all other I/O modules capitulate. Thanks to PROFINET MRP and EtherNet/IP™ DLR, the new Ethernet protocol functions, you can now increase the fieldbus availability. In addition, the modules support Fast Start-Up (FSU) and QuickConnect (QC).

The block I/Os are as their predecessors incorporated in a rugged, highly protection rated housing. Thanks to the multiprotocol function configuration is easy: Once connected, the modules run automatically without user intervention in PROFINET, EtherNet/IP™ and Modbus TCP networks.

The devices with digital output of both series can switch 2 A. This allows you to reduce the inventory of types with different output currents. All devices also support common grounding without the need for complicated modifications to the I/O module. By using ARGEE, TBENs can also be deployed as self-contained field logic controllers (FLC). This enables independent application directly in the block-I/O to control and perform arithmetic, timer, counter and binary switch functions as well as exchange of data with higher level controls.

For Ethernet and PROFIBUS

Advantages

- Automated operation in PROFINET, EtherNet/IP™ and Modbus TCP networks
- Broadly applicable thanks to wide temperature range
- Easily mounted
- TBEN programmable with ARGEE/FLC
IP67 Block I/O Modules

Proven features

- High-quality housing
  - resistant to vibrations and deformation
  - high protection class IP65/IP67/IP69K
- Easy to configure with configuration files
- Web server for additional diagnosis
- Ethernet multiprotocol technology for Modbus TCP, EtherNet/IP™, PROFINET automatic protocol recognition at startup
- Integrated switch supports Ethernet line topology
- Protocol functions:
  - PROFINET: Fast Start-Up (FSU)
  - EtherNet/IP™: QuickConnect (QC)

New features

- Extended temperature range
  -40…+70 °C
- Improved design, easily mounted
- All outputs can switch up to 2 A even the universal I/O
- Improved grounding concept:
  - Fieldbus and I/O-part are separable
- New protocol functions:
  - PROFINET: Media Redundancy (MRP)
  - EtherNet/IP™: Device Level Ring (DLR)
  - TBEN programmable with ARGEE/FLC

PROFIBUS

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Ethernet Multiprotokoll

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