

Your Global Automation Partner

TURCK

TBPN Hybrid Block I/O Module



Maximum Flexibility for PROFINET

With the TBPN Turck offers for the first time a safety block I/O module, which combines standard and safety input/outputs in one device and provides the user with maximum flexibility. The robust PROFINET module has two safe inputs for connecting different sensors such as light curtains or emergency-stop push buttons. Two more safety channels can be used as input or output. The universal channels expand and improve the ability to adapt to the requirements of the respective application. The safety I/Os and their function are configured using a software tool.

To provide more flexibility, four universal digital inputs/outputs are available for the connection of non-safety-related signals that can switch up to 2 A.

In addition, the TBPN module features two IO-Link Masters. In combination with the Turck I/O hubs, up to 32 more I/Os can be connected to the module.

Both the standard and the IO-Link channels of the TBPN can internally be switched off safely, which greatly simplifies the circuit and wiring for auxiliary drives and valve manifolds.

The robust safety module was developed for an extended temperature range of -40 to +70 °C and meets the IP65/IP67/IP69K rating. With this PROFINET module, safety as well as non-safety related applications can be equipped in challenging environments, in which almost all other I/O modules surrender.

Advantages

- Flexible use of the PROFIsafe module due to safety and standard inputs and outputs as well as IO-Link Master Ports in one device
- Safety-related switch-off of standard and IO-Link channels
- Easy installation and set up



Hybrid Block I/O Module

Product highlights

Flexible block I/O module for safety applications

- Two safety-related inputs
- Two safety-related universal inputs/outputs
- Four non-safety related inputs/outputs
- Two IO-Link Masters
- Safety-related switch-off of standard and IO-Link channels
- Up to 2 A per output
- Safe P/PM switch-off of the actuator power supply
- Can be used up to PL e, Kat. 4, SILCL 3



Easy installation and set up

- Configuration of the safety properties via software tool
- Web server facilitates diagnostics and start-up
- Integrated switch enables installation in line topology

Robust design for use in rough industrial environments

- Housing with fully potted module electronics
- High protection classes: IP65/IP67/IP69K
- Extended temperature range -40...+70 °C



Type Code	Ident.-no.	Description
TBPN-L1-FDIO1-2IOL	6814053	Safety block I/O module with safety and non-safety inputs/outputs as well as IO-Link Master ports

