TBEN-S

ULTRA-COMPACT
MULTIPROTOCOL
I/O MODULES

Sense it! Connect it! Bus it! Solve it!

TBEN-S Product Series

TBEN-S1 - 8 x M8 I/O Ports

Ident. no.	Type code	Description
6814020	TBEN-S1-8DIP	8 digital inputs, PNP Input group diagnostics
6814034	TBEN-S1-8DIP-D	8 digital inputs, PNP Input diagnostics per channel
6814021	TBEN-S1-4DIP-4DOP	4 digital inputs, PNP and 4 digital outputs 2 A, PNP
6814022	TBEN-S1-8DOP	8 digital outputs 0.5 A, PNP
6814023	TBEN-S1-8DXP	8 universal digital channels, 0.5 A, PNP

TBEN-S2 – 4 x M12 I/O Ports

Ident. no.	Type code	Description
6814025	TBEN-S2-4AI	4 analog inputs, U, I, RTD or TC selectable per channel
6814028	TBEN-S2-4AO	4 analog outputs, U or I selectable per channel
6814024	TBEN-S2-4IOL	4 IO-Link master channels and 4 universal digital channels, 0.5 A, PNP

Ethernet Cables

Type code	Description
PSGS4M-PSGS4M-4414-xM	M8 male to M8 male
RSSD-PSGS4M-4414-xM	M12 male to M8 male
PSGS4M-RJ45S-4414-xM	M8 male to RJ45 male
PSGS4M-4414-xM	M8 male to open end

x = length in meters, variants on request

Power Supply

Type code	Description
PKG4M-x-PSG4M/TXL	M8 female straight to M8 male straight
PKW4M-x-PSG4M/TXL	M8 female angled to M8 male straight
PKG4M-x-PSW4M/TXL	M8 female straight to M8 male angled
PKW4M-x-PSW4M/TXL	M8 female angled to M8 male angled
PKG4M-x/TXL	M8 female straight to open end
PKW4M-x/TXL	M8 female angled to open end
8MBM8-4P2-7/8-M	Power distribution module 1 x 7/8" male to 8 x M8 female

x = length in meters, variants on request
More accessories can be found on www.turck.com

www.turck.com

Your Global
Automation Partner

TBEN-S Ultra-Compact Multiprotocol I/O Modules in IP67

Why TBEN-S?

The ultra compact TBEN-S block I/O modules are the smallest multiprotocol Ethernet block I/O modules on the market!

- Multiprotocol: One module, three protocols
- Extended temperature range -40…+70 °C
- High degree of protection IP65, IP67 & IP69K
- Ultra-compact design (32 x 144 x 31 mm)
- Lightweight construction
- Easily mounted
- Two M8 connectors for Ethernet
- Consistent diagnostics concept
- Easily configured
- Web server integrated in each module

Digital I/O Modules

The TBEN-S product series currently includes five versions of the digital modules in 8 x M8 connection technology

- Digital inputs with channel or group diagnosis
- Digital outputs 0.5 A or 2 A
- Variants with 4 x M12 in preparation

1:1 scale

Analog Inputs

- 4 analog inputs
- One combination module for all signals
- Current, voltage, RTD or thermocouple selectable for each channel

Analog Outputs

- 4 analog outputs
- One combination module for all signals
- Current or voltage selectable for each channel
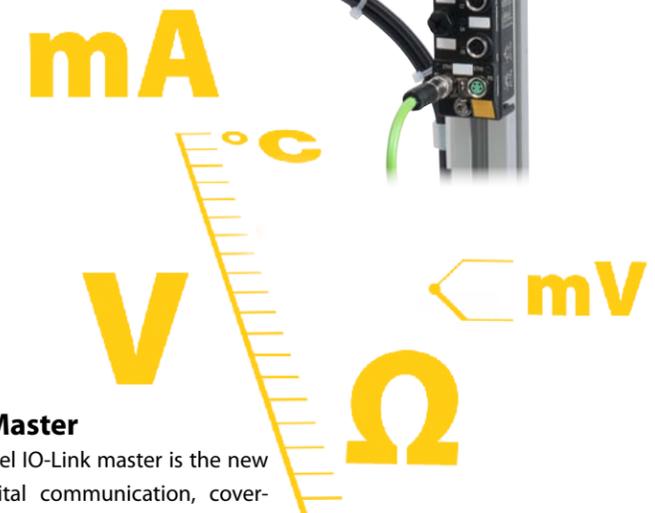
IO-Link Master

The 4-channel IO-Link master is the new link for digital communication, covering the "last meter" to the sensor or field level. Easy integration of IO-Link devices such as:

- Sensors and field devices
- I/O hubs (digital passive junction box)
- Valve manifold

Easily Mounted

- Very compact design 32 x 144 mm
- Two M4 holes in line
- Lightweight construction
- Variable grounding concept

Multiprotocol

All TURCK multiprotocol I/O modules can be run "out of the box" in the Ethernet systems PROFINET, EtherNet/IP™ and Modbus TCP. Thus, you can operate a machine with a single I/O level at different control systems.
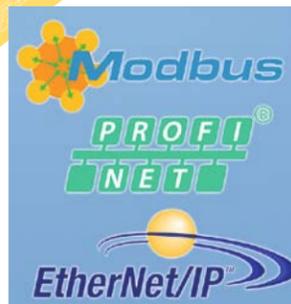
Harsh Environmental Conditions

The TBEN-S product series is designed for use in harsh industrial environments. These include the extended temperature range of -40…+70 °C and the high degree of protection IP65, IP67 and IP69K.
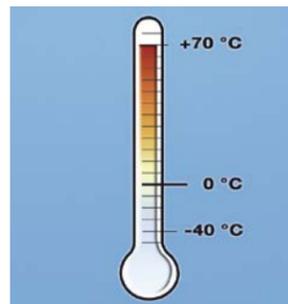
FDT/DTM Configuration

The DTM of the TBEN-S I/O modules can optionally be used in conjunction with PACTware or other FDT frame applications for configuration. In addition to parameterization and diagnostics the tool is very helpful for commissioning. With the graphical user interface you can read and simulate process data without using a control.

Web Server

The on-board web server supports during commissioning, maintenance and diagnostics. Settings such as the IP address or of the PROFINET name can be adjusted without additional tools. The web server clearly displays diagnoses and general system information in plaintext