

JUNE 2017

Turck Monthly Newsletter

New & Updated Literature

The following pieces of literature are in stock to be ordered on Custom Point and are also ready for download from the website. You can access Custom Point via [Turck Connect](#) by clicking Orders / Financials > Marketing Materials, then clicking on the Marketing Materials link. This will redirect you to our ordering site, where you can utilize the Marketing Materials section to order many different items. If you have any questions, please contact Lindsay.Fries@turck.com. Thank you.

- **B3006:** The Full Range for RFID Brochure

The updated version of the Full Range for RFID brochure includes new and expanded product offerings. New products include the TBEN-S-RFID and the handheld RFID offering from Turck.

- **B5113:** Application Guide: Canadian Process Wiring

This guide is only available to download in the Literature section on www.turck.us



There is a new issue available of the Turck customer magazine, [more@Turck](#). The [more@Turck](#) magazine provides customers an in-depth look at the newest things from Turck, upcoming products and a wide variety of application use and success stories. Please [click here to download](#) the newest edition, and email tusa.marketing@turck.com if you have a customer success story you think could be featured in the future.

Turck in the News:

- [ManufacturingTomorrow](#): Turck Announces New M08 Proximity Sensor Lineup Featuring Extended Sensing Ranges
- [Control Design](#): Turck Pressure transmitters
- [Plant Engineering](#): Technology drives performance of presence sensor range and accuracy
- [Automation.com](#): Turck introduces range of 8 mm barrel inductive proximity sensors

What's on Tap:

- SEMICON 2017 is July 11-13 in San Francisco, California. Visit the Turck booth, W-7317, and learn more at www.semiconwest.org.

Turck Honored in Control Design's Readers' Choice Awards



We are thrilled to be recognized in Control Design's Readers' Choice Awards!

This annual program invited more than 18,000 individuals to participate and

name their top three companies across control, hardware, motion, networking, safety, sensing and software categories.

Turck was named:

- First in Industrial Electrical Connector/Cordset
- Second in Input/Output Systems
- Second in Machine-Mount Input/Output
- First in Linear Position Sensor
- Fourth in Pressure Measurement
- Second in Proximity Switch
- Fourth in RFID/Barcode Readers

[Click here to read the article in the June edition.](#)



Video of the Month

The Turck Manufacturing video is an overview of Turck's production facilities, manufacturing processes and capabilities. To view the video, [click here](#).

You can access the [full library of Turck videos here](#).

Division Updates – The Latest in Sensors, Connectivity and Fieldbus Technology

Sensors

DSU35 Valve Position Sensors Available with ASi V3.0

Turck is excited to announce some new features for the DSU35 valve position sensors that are used extensively to provide open/closed feedback of pneumatic valve actuators. The sensors are now available with ASi V3.0, thus enabling extended AB addressing. This allows for up to 62 slave devices per master, significantly reducing costs. The sensors are certified and approved for use in Class I, Division 2 hazardous locations.

The DSU35 valve position sensors feature a low-profile design that incorporates dual proximity sensors for long-term reliability. They are available in a wide variety of housings with multiple connectors, including models with a solenoid

output to streamline wiring. In addition, the sensors are supported by a full line of target pucks and adapter kits to ensure compatibility with any standard actuator.



Part Number	ID Number	List Price
NI 4-DSU35-2ASI2X4-B1140-FKE4.3	M1902015	\$349.80
NI 4-DSU35-2ASI2X4-H1140	M1902013	\$262.20

Connectivity

Turck Introduces M12 PNP to NPN Cordset

Turck is now offering customers an M12 PNP to NPN converter cable for use with normally open sensors,



providing users with a simple and quick solution for any application needing to convert a PNP output to an NPN signal. In many cases, the M12 PNP to NPN converter cable can allow users to reduce inventory, as it eliminates the need for NPN sensors to be used in addition to PNP sensors. Additionally,

it provides users with an all-in-one solution with no external circuitry required.

The converter uses the industry standard M12 connector on these cables. It is compatible with a large variety of sensing products with M12 connections, providing a great deal of application flexibility. The converter can also be used as an alternative to a smart plug in some cases, providing users a simple and low-cost option when the full capabilities of a smart plug are not needed.

The M12 PNP to NPN converter cordsets have a 24 VDC rating and have a maximum current draw of 100 mA. For use in rugged environments, the right-angle connectors have an IP68 environmental rating, and the straight connectors are rated to IP69K.

Division Updates – The Latest in Sensors, Connectivity and Fieldbus Technology

Connectivity

Turck to Harmonize Ground Conductor Color to International Standards

In electrical circuits, the purpose of a ground conductor is to provide the current a path to earth ground to prevent shock in the event of an electrical fault. In the United States, NEC guidelines dictate the ground wire color designator as green, green with a yellow stripe or bare conductor.

Around the world, there has been an effort toward harmonization of wire colors. A majority of countries have chosen to standardize on green with a yellow stripe as the designator for ground. This complies with International Standard IEC 60445, titled “Basic and safety principles for man-machine interface, marking and identification – Identification of equipment terminals, conductor terminations and conductors.”

As a global manufacturer, Turck has made the decision to move toward harmonization. We will be changing standard products containing a green ground conductor to green with a yellow stripe. Both jacketed cable and receptacle lead wires will be updated. Inventory will be managed through a phase-in/phase-out process of raw material over the next year. Technical source drawings and literature will be updated once products have transitioned.

Affected Turck products include:

Turck Family Type	Thread Type
Microfast	½-20 UNF
Minifast	7/8", 1", 1 1/8"
Versafast	M16
Multifast	M23
Powerfast (all sizes)	7/8", 1 3/8", M16, M23, M40
Valve Connectors	8 mm, 9.4 mm, 10 mm, 11 mm, 18 mm
Process Automation	7/8"

Please note there will be a period of time where some products have changed while others are still working through inventory. We appreciate your patience during this transition.

Fieldbus Technology

Two New Fieldbus Technology Guides Available for Download

Fieldbus Technology has released two new documents: the FEN20 Start-up Guide (G1038) and the Simatic Step 7 TIA Portal Profibus/Profinet Installation Guide (G1039).

G1038 is designed to lead a user through the setup process of an FEN20 module using EtherNet/IP, PROFINET or Modbus TCP. The guide will also provide information on wiring, configuration and software tools (such as PACTware and the Turck Service Tool) that can be used when configuring the FEN20 modules.

G1039 is designed to demonstrate the setup process of the TIA Portal version 13 project for Turck I/O modules. This will explain how to create a project (it should be very similar for version 14), load the GSDML files and add your new device to your project.

Please use the search function or Literature section on www.turck.us to locate these items.

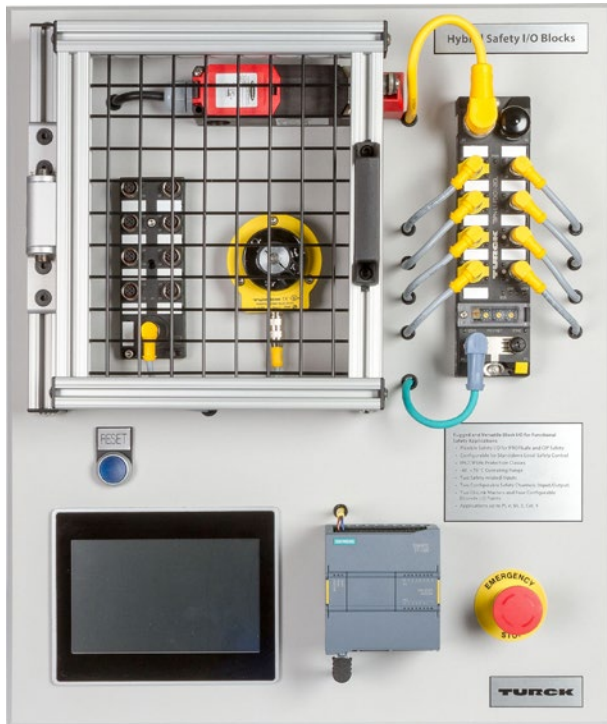


Division Updates – The Latest in Sensors, Connectivity and Fieldbus Technology

Fieldbus Technology

New Demo Board for Hybrid Safety Modules Now Available

The new demonstration board, “Hybrid Safety Modules,” is now available for checkout in Turck Connect/Custom Point. This board showcases several unique device features and a simple application example using the hybrid safety modules.



The hybrid modules are IP68/IP69k blocks, which offer the ability to collect remote safety-related signals and transfer data to a safe PLC via PROFINET (PROFINET) or CIP-Safety (EtherNet/IP). The module supports up to four SIL 3 PLe safety inputs, and two of those points can be alternatively configured as safety outputs. The device also supports general purpose I/O, including four configurable discrete input/output points and two IO-Link ports – which, in combination with Turck IO-Link hubs, allows users to connect up to 32 additional points of discrete I/O.

The board demonstrates a simple safety application: an E-stop input causes power to be removed to a motor in a work-cell, and after a brief time delay power is also removed to a locking gate switch allowing access into the stopped cell. Standard operation is restored after a reset and acknowledged restart, once the gate has been shut and the E-stop pushbutton has been cleared.

To order this demo board, access Custom Point via [Turck Connect](#) by clicking Orders / Financials > Marketing Materials, then clicking on the Marketing Materials link. From there, click on Demo Boards > Fieldbus Technology Boards.

This Month's Advertising:

- Automation World: E-newsletter ads featuring Reelfast Bulk Cable Program, M8 Ethernet, Custom Connectivity, Minifast HD Cordsets and Extremelife-60 Cables
- Automation.com: Product Spotlight e-newsletter ad featuring Field Logic Controllers
- Cabling Installation & Maintenance: Website ad featuring M8 Ethernet
- Control: Print ads featuring TBEN-S1 Ultra-Compact Multiprotocol Ethernet I/O Modules and Field Logic Controllers
- Control: White paper e-blast featuring *Factor 1 Sensors: The Evolution of Metal Detection*
- Control Design: White paper e-blast featuring *Factor 1 Sensors: The Evolution of Metal Detection*
- Control Engineering: Innovations from the Industry print ad
- Control Engineering: Process Instrumentation and Sensors e-newsletter ad featuring Ri360-DSU Sensors
- RFID Journal: Website ads featuring QR24 Rotary Inductive Sensors, Uprox3 IO-Link Inductive Proximity Sensors, Field Logic Controllers, TBEN-S-RFID Modules and FEN20-4DIP-4DXP Multiprotocol Ethernet I/O Modules