

Your Global Automation Partner

TURCK

The Full Range for Automation Solutions



A Global Leader in Industrial Automation

Turck's sensors, connectivity, and fieldbus technology products are built to be the best. As one of the most **prominent** sensor manufacturers **in the world**, we even back our sensors with a **lifetime warranty**. Turck works by bringing **rugged engineering** solutions to your industrial automation applications.

85,000+
SOLUTIONS

50+
YEARS OF INNOVATION

2,000+
EXPERIENCED SALES REPRESENTATIVES

Pioneer in non-contact
sensing technology

Developed innovative **connectivity**
solutions in response to our customers' needs

Recognized the need for advanced **I/O solutions**
in harsh duty environments

**SUPPORT &
DEDICATED SERVICE**

EXTENSIVE WARRANTY



4,800+
APPLICATION EXPERTS

RESPOND
and SOLVE over **1,200** inquiries
per day



Strategically placed manufacturing facilities in the

USA with **30** GLOBAL
SUBSIDIARIES

GLOBAL BUT LOCAL...

60 representations worldwide

Industries and Solutions



A Global Leader

Turck is a global leader in industrial automation technology. More than 4,800 employees in 30 countries strive to provide you with the best sensor, connectivity, and fieldbus technology products on the market.

Turck not only aims to provide customers with the best products on the market, but also world-class service and support. Our highly trained engineering staff is available to walk you through your system requirements and help find solutions to difficult applications. Unlike other companies, when you call Turck, you will be able to speak directly with an engineer in a matter of minutes!

Strong Industry Presence

Turck's engineering expertise offers solutions across many industries, regardless of the application conditions and technical challenges. You'll find Turck's solutions optimizing manufacturing, tracking goods, monitoring processes, ensuring reliable machine control, reducing downtime and much more.

Here are just a few of the industries where Turck has thrived:

- Assembly
- Automotive
- Electronics
- Food and Beverage
- Machine Tool and Die
- Intralogistics
- Mobile Equipment
- Oil and Gas
- Packaging, Converting and Printing
- Pharmaceutical
- System Integration
- Transportation
- Water Treatment

Industrial Automation



The Full Range of Automation Solutions with a Wide Range of Benefits

Whether you need a simple or more complex solution, Turck offers an extensive technology portfolio of sensors, connectivity, fieldbus technology and custom engineered solutions. Partner with Turck to reduce downtime, optimize manufacturing, improve network communication, identify and track products, plus much more. Our rugged products stand up to high temperatures, washdown environments, weld slag, and the rugged conditions found in the toughest applications. Our team of highly-trained engineers will help you find your ideal solution. Can't find what you are looking for? Our engineers can design an application-specific solution. Add in world-class service and support, and Turck is there for you throughout your product's life cycle.



Sensors

Turck's rugged and reliable sensors include inductive, ultrasonic, pressure, instrumentation, encoders and more. From simple to advanced applications, we have a solution – even for challenging environments like welding cells and washdown areas.

Connectivity

With hundreds of cut-to-measure bulk cable options plus a vast range of connectors and harnesses, Turck has many in-stock options ready to ship to you. Consolidate wiring, connect sensors and distribute power and signals more cost-effectively with Turck.

Fieldbus Technology

Streamline your industrial control applications with fieldbus technology from Turck. Our solutions range from distributed I/O to PLCs and FLCs to junction boxes, RFID and more! Turck's fieldbus products support most major industrial network protocols for better communication flexibility.

Custom Solutions

Can't find what you are looking for? From specialty connectivity solutions to our industrial panel shop, Turck can customize many of its products to meet your exact needs. Challenge us with something new!



Sensors

Get the right sensor for the right task. Turck has long experience in designing and producing proximity sensors based on inductive, capacitive, magnetic and ultrasonic technologies. You can find these solutions in a wide range of applications and industries. The proximity sensor line is complimented by a diverse encoder line, linear and rotary inductive transducers as well as pressure, temperature and flow sensors. They are rugged and reliable in even the toughest of environments with versions rated up to IP69K.

Proximity

- Inductive, capacitive, magnetic and ultrasonic sensors
- Rugged product and part detection
- Designs for harsh applications
- Withstands extreme temperature and shock
- Washdown and submersible variants
- Indoor and outdoor applications
- Easy configuration and diagnostics via IO-Link



Linear, Angular, Rotary Position

- Robust inductive linear transducers
- Incremental, single and multiturn absolute encoders
- Shaft, hollowshaft and non-contact encoders
- Inclinometers for angle detection
- Easy configuration and diagnostics via IO-Link



Instrumentation

- Measure fluid and gas pressure
- Temperature measurement with or without local display
- Insertion or inline sensors to monitor flow of liquids and gasses
- Accurate level detection in tanks and bins
- Easy configuration and diagnostics via IO-Link





Connectivity

Thousands of in-stock products are ready to ship the same day. Turck has endless connector and cable combinations that make it easy to find a solution to fit your exact needs. Our team of connectivity experts design reliability and toughness into every single product we make. From extensive industry approvals to materials that withstand corrosive chemicals, we're ready and willing to partner with you in solving your most challenging projects.

Cordsets

- IP67 and IP69K molded solutions for harsh environments
- Cut-to-order bulk cable program reduces waste
- Over-molded and pre-assembled OEM connectors
- Hazardous location wiring solutions
- Extensive range of approvals/certifications
- Industrial Ethernet options for IIoT installations



Wiring Consolidation

- Streamline wiring through junction boxes and splitters
- Rugged plastic or metal housing options
- Hazardous location wiring consolidation
- 2, 3 and 4 branch splitter options



Custom Solutions

- Wide range of standard OEM components
- Simple and complex capabilities
- Custom overmold design
- In-house design team partners with you





Custom Harness and Cable Assembly Solutions

Turck's Harness and Cable Assembly Solutions is a specialized engineering team that's dedicated to designing custom solutions for challenging applications. The harness and cable team draws on Turck's industry leading connectivity expertise to solve the most difficult connectivity applications, from offering standard cable and wire assemblies to developing custom overmolded harness solutions. Whether an application must withstand extreme environmental conditions, combat continual flexing or meet specific certifications, Turck works diligently to get the job done.

Wide Range of Options

- Multi-branch cable and wire harnesses for mobile equipment
- Simple cable and wire assemblies to highly complex assemblies
- Rugged harness assemblies outside the cabinet to electronic assemblies in-cabinet
- Fully encapsulated assemblies for tough environmental connector challenges
- Complex connector assemblies



Full Service Approach

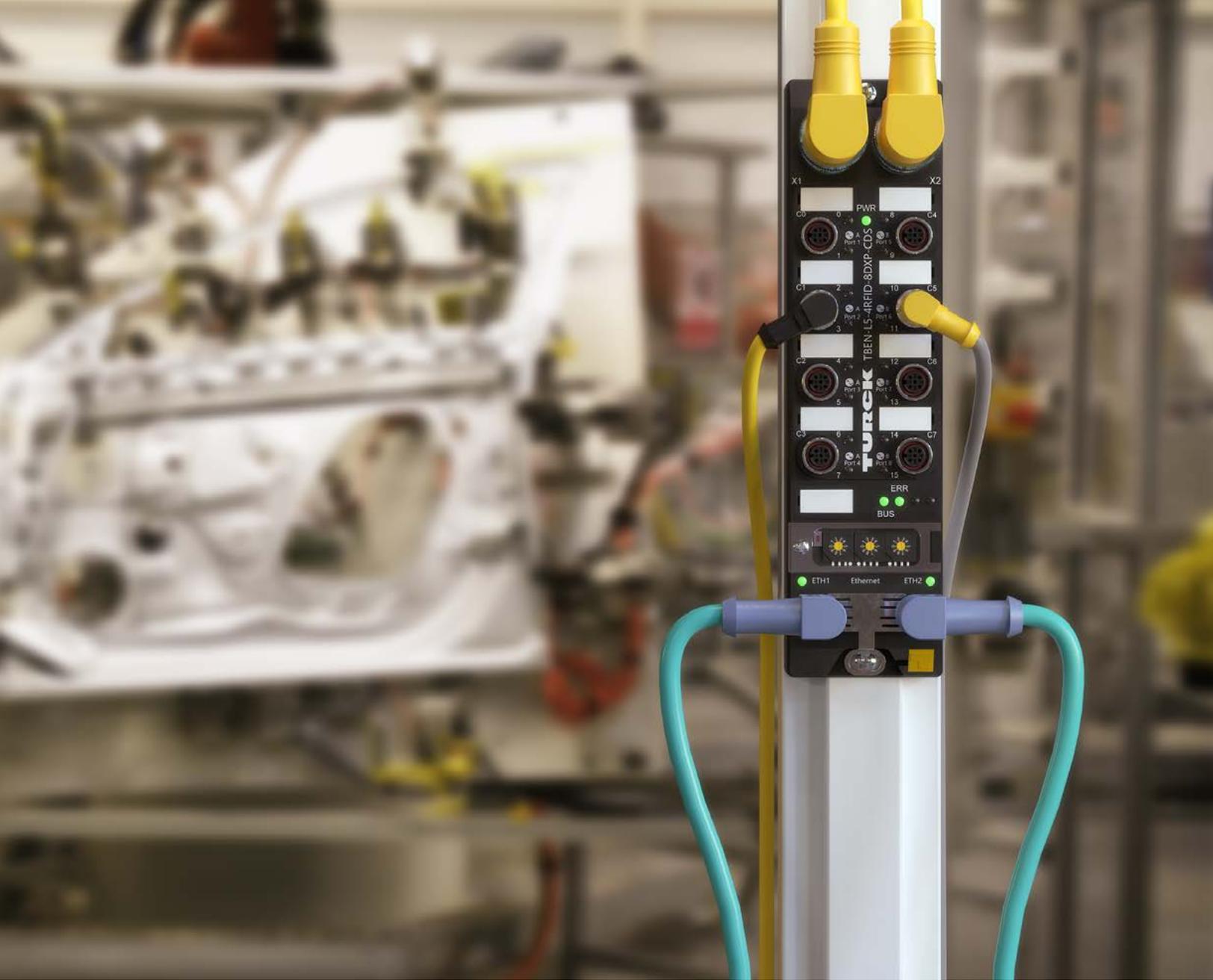
- Industry-leading expertise for harness solutions
- In-house design team partners with you to solve tough challenges
- Full-service approach to simplify the design process
- Over 5.5 million meters of wire and cable in stock for harness applications



Capabilities

- Automated strip crimping
- Advanced cable cutting
- Soldering
- Potting for ruggedized container solutions
- Custom labeling and marking
- Wire and cable printing
- Custom braided solutions
- Weld splicing
- CAD services
- Kitting
- Compatible with most connector brands





Fieldbus Technology

Expand your communication capabilities while consolidating your wiring using fieldbus technology. Whether you need a fieldbus solution for on-machine or in a control cabinet, Turck's multiprotocol Ethernet distributed I/O technologies are designed to reduce time and costs. Add in advanced programmable systems and innovative RFID solutions to maximize your application options.

I/O Modules

- Vast selection of panel or machine-mounted I/O
- Cost-effective, flexible modular and block solutions
- Multiprotocol capability to support multiple industrial Ethernet protocols
- Flexible hybrid safety/general purpose I/O modules



RFID

- Interfaces – stand-alone control with programmable gateways and blocks
- Transceivers, rugged fully enclosed design rated up to IP69K
- Handheld HF and UHF options, Bluetooth® capability
- Tags as small as 5 mm, resistant to temperatures up to 300 °C



Industrial Controls

- Rugged programmable logic controllers, field logic controllers
- HMIs with integrated PLC functionality
- Easy-to-use, free CODESYS programming software





RFID Systems and Services

Turck can design an RFID solution that fits your needs. From defining your processes to helping with the correct tag selection – Turck’s RFID experts are there for you. We start by conducting a site survey followed by our five-step model to success. When implemented, your RFID system continues to run smoothly with our optional 24/7 support. Need training? Turck can provide training on-site specific to your applications.

Whether you are implementing equipment asset tracking, loading and shipment verification or monitoring material consumption, Turck can engineer a cost-effective solution.

Turnkey RFID Systems

- Eliminate stray reads for more accurate data capture - even at a distance
- Ready-to-use configurable components for all typical RFID applications
- Best-in-class hardware



Enterprise and Factory Level Monitoring

- Monitor and control all RFID readers and read events
- Improve supply chain visibility and asset tracking
- Optimize higher-level business processes and factory-level operations
- Gate, mobile and forklift configurations



Industry Applications

- Track work in progress and material movement
- Support electronic Kan-ban
- Automatically register in-bound shipments - by box or pallet
- Improve order picking accuracy
- Speed up shipment verification
- Keep track of high-value assets





Control Panel Design - TEPS

Get high-quality control panel design, engineering and manufacturing based on your unique needs with Turck Engineered Packaged Systems (TEPS). We are connectivity and manufacturing experts – that's why TEPS is not your typical panel shop. TEPS is fully certified, allowing the group to design and incorporate TURCK interface modules, barriers and hazardous area distributed I/O products into fully certified intrinsically safe control panels. Our modern facility has the latest technology to create high-quality custom control panels that are used around the world.

Proven Processes

- UL certified for hazardous locations and explosion-proof electrical equipment
- Complete in-house design/engineering capability
- Trusted Turck cables, connectors and components
- Build from print or rough concept
- On-time delivery



Quality Enclosures

- Polycarbonate
- Glass-reinforced plastic (GRP)
- Powder coated mild steel
- 304 and 316 stainless steel
- NEMA 1, 4, 4x and 12 protection options
- Custom sizes available



Partner for Success

- Made in the US, shipped worldwide
- Customization is our specialty
- Unsurpassed automation expertise
- Dedicated panel building facility



Notes

A large grid of graph paper for taking notes, consisting of 30 columns and 40 rows of small squares.

Turck Inc. sells its products through authorized distributors. These distributors provide our customers with technical support, service and local stock. Turck distributors are located nationwide – including all major metropolitan market areas.

For application assistance or for the location of your nearest Turck distributor, call:

1-800-544-7769

Specifications in this manual are subject to change without notice. Turck also reserves the right to make modifications and makes no guarantee of the accuracy of the information contained herein.

Literature and media questions or concerns?
Contact Turck USA Marketing – tusa.marketing@turck.com

TURCK



30 subsidiaries and over
60 representations worldwide!

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