As the market for automation components continues to evolve and demands smarter, smaller, more robust sensing and productivity products, TURCK is rising to meet these challenges with a complete offering of automation components and solutions. Established as the industry’s leading brand in proximity sensors, the TURCK name is synonymous with high-quality, rugged sensing products. Now, users can expect that same quality in an expanded offering of automation technologies that will help improve their products and profits.

**Encoders**
Kübler by TURCK brings a complete line of incremental and absolute encoders with unique advantages, including temperature and aging compensation, plus improved EMI, vibration and shock resistance.

**Modular System I/O**
The BL67 delivers all the flexibility of in-the-cabinet PLC I/O systems with modularity, IP 67 rated ruggedness, and connectorization. Configure with up to 32 electronic modules, up to 256 digital, 64 analog I/O and 3 feet in length with DIN rail or flange mounts.

**LDT’s**
EZ-track® magnetorestrictive linear displacement transducers offer up to +0.01% accuracy to save wear, breakage, downtime and cost.

**Inductive Analog Sensors**
The analog+ product line offers a wide variety of new housing styles and functions that include extended sensing range and repeatability of less than 1%.

**Connectivity**
Industry’s broadest line of connectors, cable and cordsets. New flexlife-10® withstands 10 million flex cycles, twice the competition. Junction boxes consolidate devices and save wiring costs. HART compatible 4-20 mA models.

**Proximity Sensors**
Industry leading inductive and capacitive proximity sensors. From our tiniest 4 mm diameter picoprax®, to our durable weldguard®, new TURCK proximity sensors fit your applications better.

**Intrinsic Safety**
Isolated barriers eliminate the need for a dedicated ground. Zener barriers feature narrow 7 mm design and replaceable fuses. IS fieldbus I/O systems install directly in hazardous classified areas.

**Flow & Pressure**
Omni-directional flow monitors have no moving parts, offering greater reliability. Fully programmable pressure sensors offer the flexibility to perform in any application.

**Compact I/O Stations**
FDN20 allows for fast, easy connection of pushbuttons to DeviceNet™. Built-in eurofast™ connector mounts through any standard enclosure with a single hole and provides rugged, reliable connectivity.

**6 to 12-pin minifast® cordsets**
New minifast® cordsets are not only the most rugged on the market, but also the least expensive. Choose C size, 1½” models with 9, 10 or 12-pins.

For critical automation improvement, connect with a dependable supplier that can deliver the latest, high-quality products, exceptional service and fast delivery. Contact TURCK today to help you meet your objectives for cost, quality and productivity.
Proximity, Measurement, Monitoring and Position Sensing

**WeldGuard™**
• Resists high heat, weld slag buildup and abrasion
• Up to 500 times more durable than other sensors
• Embeddable or non-embeddable
• Available in weld-field immune Uprox® and standard ferrite core versions
• ArmorGuard™ protection for sensors in impact-prone locations

**Q-pak™**
• Compact size fits in confined areas where other sensors can’t
• Superior 3 mm (0.01”) to 50 mm (0.20”) range
• Models from 5 mm to 80 mm size with embeddable versions

**Picoprox®**
• Tiny 4 mm, 5 mm, 6.5 mm & 8 mm stainless steel housings
• Extended range to 4 mm

**Uprox®**
• Detect all metal types at the same sensing range
• Inherently weld-field immune
• Up to 350% more range than conventional sensors
• Wide -30°C (-22°F) to +85°C (+185°F) temperature range

**WeldGuard™**

**Capacitive Sensors**
• Non-contact sensing of metallic and non-metallic materials
• Ideal for level detection
• Available in DC, AC and IS models
• Solid-state output, high switching frequency, no moving parts

**Levelprox™**
• Detect media levels through metal-walls
• No possibility of a leak-point
• Not affected by stirring devices
• 100% hygienic

**Inductive Sensors**
• Amphibian™ washdown versions
• High temperature and low temperature
• Harsh duty (IP 67, 68, 69K)
• Die protection
• Ring & slot versions
• Intrinsically safe versions

**Relays**
• Unique design provides higher reliability and longer relay life
• Integral mounting bracket and pin numbering on the socket for faster wiring

**Flow Monitors**
• Insertion and in-line styles, self-contained or remote amplifier
• Omnidirectional stainless steel, plastic or Teflon® housings

**Pressure Sensors**
• Bar or PSI measuring units & peak pressure memory function
• 13 pressure ranges from Vacuum to 600 bar
• Standard hysteresis mode for over/under pressure

**EZ-Track® Linear Displacement Transducers**
• Magnetorestrictive non-contact sensing
• Absolute position sensing
• +/-0.01% accuracy and repeatability of up to +/-0.001% of full stroke

**Kübler by TURCK Encoders**
• Incremental and absolute, shaft and hollow-shaft models
• Single- and multi-turn absolute models in shaft and hollow-shaft styles
• Temperature and aging compensation

**Linear Analog Sensors**
• Voltage and or current output proportional to target distance from sensor
• Available in limit switch, barrel or Q-pak® rectangular styles
• Remote amplifiers available with adjustable switching points
### Networks and Interfaces

#### Interconnection Products and Accessories
- DeviceNet™
- PROFIBUS®-DP
- AS-interface®
- Foundation™ fieldbus
- PROFIBUS®-PA

#### Sealed Rugged Junctions
- DeviceNet™
- AS-interface®
- FOUNDATION™ fieldbus
- PROFIBUS®-PA
- HART®

#### AS-interface® Network Masters & Couplers
- I/O stations
- Masters
- Connectivity
- Gateways

#### Sealed Rugged Junctions
- The most complete line of
  industrial network cabling and cordsets

#### Ethernet
- Hardened Ethernet
  switches and media
- 5 or 9-ports

#### AS-interface®
- Small rugged distributed machine I/O available in a
  variety of models:
  - DeviceNet™
  - PROFIBUS®-DP
  - MODBUS™
  - CANopen™
  - RS232
  - RS485

#### BL20™
- Screw terminal and clamp style system I/O
- Discrete models
- Analog models
- Temperature and serial I/O
- DeviceNet™ and PROFIBUS®-DP

#### AIM™
- The most rugged on the machine
  I/O available in over 100 models for:
  - DeviceNet™
  - PROFIBUS®-DP
  - Ethernet/IP
  - MODBUS TCP/IP
  - AS-interface®

#### excom® Remote I/O for Hazardous Areas
- Eliminate need for conventional IS barriers
- Modular backplane bus with integrated
  voltage supply for 18, 9 or 5 modules
- Modules can be exchanged during operation

#### multimodul® IS Barriers
- Complete line features isolated design with
  no need for dedicated ground
- Hazardous circuits are galvanically isolated
  from non-hazardous circuits
- DIN-rail or Eurocard styles
- FM, CSA and CENELEC certified

#### sensoplex®
- Master & slave fieldbus
  system operating in conjunction
  with the control system
  through specially designed
  master stations
- User programmable
- Designs range from stations with IP 67 protection
  for direct mounting to IS rated stations for hazardous
  areas and low-cost terminal blocks for installation in
  control cabinets
- DeviceNet™, Modbus Plus & PROFIBUS®-DP bus protocols

#### ZENER Barriers
- FM, CSA, BASEEFA/CENELEC certified
- Shunt-diode intrinsic safety barriers feature narrow 7 mm width
- Meet worldwide standards for use in classified atmospheres
Cordsets, Junctions & Wiring

Rugged Junction Boxes
• multibox® junction boxes and splitters enable wiring consolidation from sensors and other devices
• M12 eurofast® terminal chamber style box offers terminal screw or spring clamp connections for the homerun cable connection
• Die-cast aluminum or industrial hardened plastic housings
• Choice of integral cable or a quick-disconnect multifast® homerun cable
• Intrinsically safe versions

V*fast® DIN Valve Connectors
• DIN 43650 solid injection molded PUR plug body
• Oil and abrasion resistant PVC, PUR or CPE rubber cables
• Cordsets, extension cords or splitter styles with eurofast®, picofast®, minifast® or microfast® style connectors

Reelfast® Bulk Cable
• Spooled cable in 30 m, 100 m or 200 m lengths in self-feeding packages
• 300+ different PUR, PVC and rubber cables to choose from
• PLTC, high-flex and more
• 2-day drop-ship delivery available

4-20 mA Analog Connectivity
• Reduce maintenance costs and consolidate wiring
• Compatible with HART transmitters

3 to 5-pin Standard Cordsets
• Industry standard cordsets and connectors
• eurofast®, picofast®, minifast®, microfast®, multifast®, and V*fast® interconnects

flexlife-10® Continuously Flexible Cable
• Performance to 10 million continuous flexing cycles
• Ideal for power and signals to factory automation equipment
• Available with molded cordsets using industry standard connections
• UL recognized and CSA approved, with operating temperatures up to 105°C (221°F) and cold flexibility to -40°C (-40°F)

multifast® 5-28 Conductor Solutions
• Solid metal connector shell and fully molded connectors
• Receptacles in standard or long thread lengths
• NAMUR cordsets and extensions in blue PVC & PLTC rated

Custom Wiring Solutions
• Jacket options for any environment
• Diameters from 3.5 mm to 16.5 mm
• Gauges from 16 to 26 AWG
• 2 to 19 conductors, braided or foil shields

OEM Connectors
• Components for buses, networks, panels, circuit boards, enclosures and machines in eurofast®, picofast®, minifast®, microfast®, V*fast® and multifast® style connectors
• Front mount, rear mount, feed-through with solder cups, leads, or PCB pins in straight or right angle

Go to turck.com or call 1-800-544-7769 for our latest catalogs.