

TURCK: Delivering Advanced Automation Products

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.

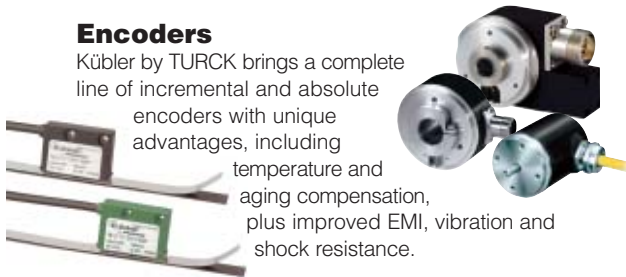


Industrial Automation

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.



Proximity Sensors

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



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.



B9053

LDT's

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



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.



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%.



Compact I/O Stations

FDN20 allows for fast, easy connection of pushbuttons to DeviceNet™. Built-in *eurofast*™ connector



B9054

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, 1 1/8" models with 9, 10 or 12-pins.



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.



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.



B1004

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



B0178

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

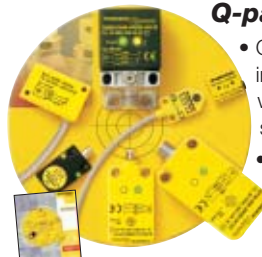
Uprox®

- 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



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



B0143



Flow Monitors

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

B1050



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

picoprox®

- Tiny 4 mm, 5 mm, 6.5 mm & 8 mm stainless steel housings
- Extended range to 4 mm



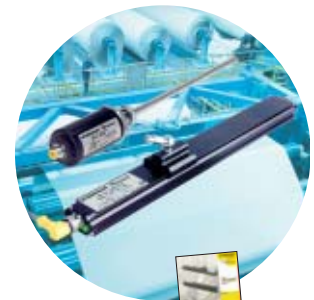
Pressure Sensors

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

B1050

EZ-Track® Linear Displacement Transducers

- Magnetostrictive non-contact sensing
- Absolute position sensing
- +/-0.01% accuracy and repeatability of up to +/-0.001% of full stroke



B0310



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



B3050

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®



B9033



Connectivity

- The most complete line of industrial network cabling and cordsets



Ethernet

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

B9032



AS-interface® Network Masters & Couplers

- I/O stations
- Masters
- Connectivity
- Gateways



B9040



piconet®

Small rugged distributed machine I/O available in a variety of models:

- DeviceNet™
- PROFIBUS®-DP
- MODBUS™
- CANopen™
- RS232
- RS485



B9052



BL20™

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



B9039



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®



B9032



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

B0168



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



B4400



sensoplex®

- Master & slave fieldbus system operating in conjunction with the control system through specially designed master stations
- User programmable



B9050

- 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



B0148



B2004

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



3 to 5-pin Standard Cordsets

- Industry standard cordsets and connectors
- **eurofast**®, **picofast**®, **minifast**®, **microfast**®, **multifast**®, and **V*fast**® interconnects



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

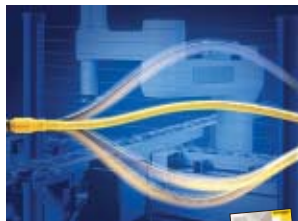


4-20 mA Analog Connectivity

- Reduce maintenance costs and consolidate wiring
- Compatible with HART transmitters

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)



B0422



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.



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