

TURCK

CHARTWELL

Summer 2015 Edition 1 (877) 513 7769 (PROX), Markham Ontario

WHAT'S NEW?



TURCK Factor 1 Sensors Third Generation

TURCK's new uprox3 series offers the most compact designs from 4 mm in diameter, offering the largest switching distances with all metals

- Electronic platform of the uprox3 Series has been completely redesigned
- A world first factor 1 sensors in the compact 4mm smooth barrel and M5 designs with a 1 mm switching distance
- Shortened length of previously compact M8 to M18 designs
- Switching distances increased by up to 50 percent, new series is longest on the market
- TURCK has been able to achieve these larger switching distances without compromising performance and mounting requirements
- Immunity to magnetic fields means uprox3 Series sensors are suitable for use in many demanding industrial sectors
- Offers especially robust PTFE coated sensors in M8, M12 and M18 designs
- All uprox3 sensors offer a high EMC stability and flexible mounting options right through to fully flush mounting in all metals, as well as precise switch points



Featured inside:



SENDIX F58



MULTIPROTOCOL I/O



IO-LINK



CELEBRATION!



extremelife™ -60 cables

Head Office: Markham, ON; Branch Offices: Vancouver, Calgary, Edmonton, London, Waterloo, Hamilton, Montreal

Kübler

EtherNet/IP™

Sendix F58 EtherNet/IP encoders

- Robust Safety-Lock™ bearing design
- Encoders withstand installation errors, shocks and vibrations
- Position value transmission is 5 times faster than common market encoders
- RPI time is only 1 ms, allowing time-critical applications of up to a 1,000 Hz update frequency
- Short starting time, below 500 ms
- Cyclic services allow fast and easy commissioning and configuration
- DLR (Device Level Ring) ensures a single cable break does not lead to plant stoppage
- Available in solid shaft or blind hollow shaft version
- IP65 protection level with wide temperature range from -40°C...+80°C *
- Devices are 100% insensitive to magnetic fields, total resolution is 32 bits
- Devices are ODVA-certified



The 32 mm slim TBEN-S modules from TURCK can be operated automatically in Profinet, Modbus TCP or EtherNet/IP thanks to the multiprotocol communication



NEW for 2015, TURCK has added several ultra-compact Ethernet block I/O devices with four analog inputs or outputs to its TBEN-S series. The analog inputs of the Multiprotocol Ethernet modules can process four different types of input signal: besides voltage and current signals, it also processes PT100 signals from temperature sensors or millivolt signals, as are typically output by thermocouples or measuring bridges. This enables the user to respond flexibly to the particular input signal requirements in the field. The TBEN-S series enables applications that previously required three different block module types to be implemented with just one.

TURCK Extending the Reach of Control Systems with IO-Link



What is IO-Link?

IO-Link is based on a simple 3 wire point-to-point connection between the sensor/actuator and interface module connecting to the field level. Furthermore IO-Link has standardized on IO technology (IEC 61131-9) for communication with sensors and actuators. Interoperability is the cornerstone of this technology, ensuring that multiple vendors' products will work together by design. Up until now, the on/off connection was only designed for transferring switching information, but IO-Link is designed to transmit 2 bytes of data, normally within a 2 ms cycle, combining switching status and data channel. Other information can be exchanged in addition to the process values, such as parameters, diagnostics in a standard switch, or communication mode.

What are the key user benefits?

IO-Link users benefit from reduced maintenance costs, reduced trouble shooting time, more efficient processes, along with improved machine/process availability.

Integration of standard on/off 24 VDC devices into automation systems is done via IO-Link multiport I/O hubs. Variants are available for inputs, outputs and universal digital I/O's.

Wiring is Simple

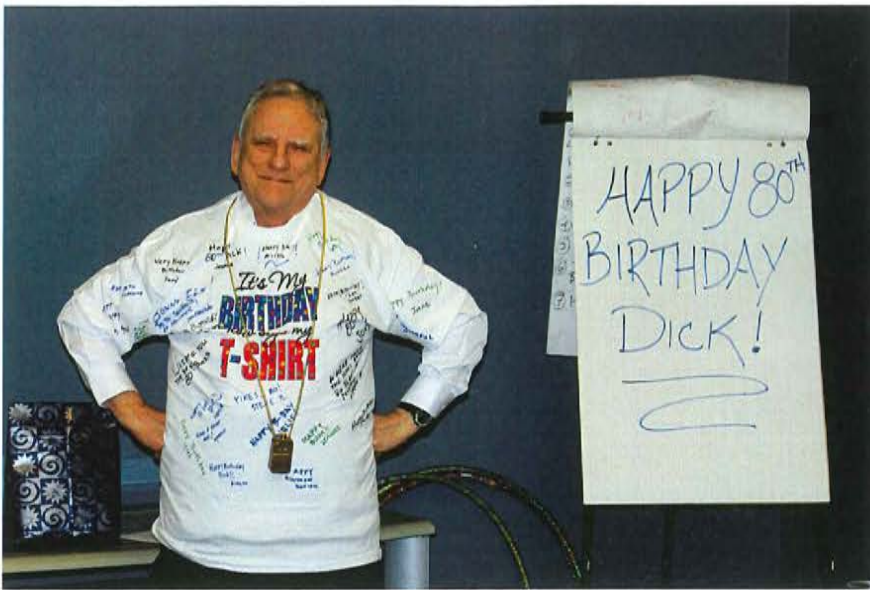
IO-Link uses the same standard unshielded 3-core cables with standard connectors used in conventional I/O. This eliminates problems with complex devices that follow different standards and are often hardwired through multipole connectors. This simple 3 wire cable can be up to 20 meters in length, giving the user the ability to locate sensors some distance away from the IO-Link Master.

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Suppliers





Dick turns 80!

TURCK Chartwell staff had the honour of celebrating Dick Ferguson's 80th birthday during a luncheon on Thursday April 2, 2015. Dick Ferguson has been with Chartwell since it was founded in 1983, and has helped grow and support the business ever since. Dick is an encouragement to all of our staff, as he is a dedicated, well appreciated and respected employee.

TURCK's New *extremelife*[™]-60 Cables Feature Unparalleled Durability for Cold Harsh Environments



- Designed with a specially engineered proprietary cable jacket material, cables remain flexible enough to work down to -40°C, and carry UL -60°C cold bend and UL/CSA -40°C cold impact listings, as well as an FT4 flame rating
- No other cable on the market combines these advantages in a single cable solution
- The *extremelife*[™]-60 cables are available in a wide variety of AWG sizes, constructions, conductor counts and cable jacket colors
- Cables have ITC and PLTC approval from UL, CIC approval from CSA, making these cables code compliant for NEC and CEC Class 1 Division 2 hazardous location applications
- Cables carry Oil Res I and Oil Res II approvals and are UL listed for exposed run (ER) and direct burial
- Cables pass the exacting crush and impact tests as metal clad cable, but without metal cladding
- UL/CSA listing and hazardous location rating.

TURCK's *extremelife*[™]-60 cables solve long-standing oil and gas installation challenges because they offer the rugged construction, approvals and flexible cable jacket required in these demanding environments. All of these attributes combine to bring a cable that will result in less downtime and more cost savings in a fully compliant offering.

LITERATURE REQUEST?

Visit chartwell.ca or email: sales@chartwell.ca