

WHAT'S NEW?



Business News

IO-Link?



Turck IO-Link is designed to facilitate communication between sensors/actuators from different manufacturers and higher-level systems. Broad support by leading manufacturers is the first step toward creating a standard.

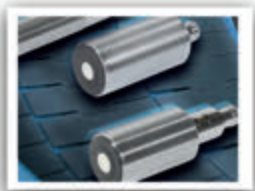
The requirements for production automation are continually rising. It takes flexible production lines, detailed product tracking or close cooperation between man and machine to open up the last meters to the sensors and actuators for continuous communication. The fieldbus-independent communication interface IO-Link now offers a uniform standard that applies to all manufacturers.



Read "IO-LINK: Intelligent Down to the Last Meter" pdf for more information, by scanning the QR code or typing the link in your browser:
http://www.turck.de/en/articles_pdf/10705e.pdf



Featured inside:



ULTRASONIC SENSORS



JUNCTION BOXES



INDUCTIVE ENCODER



READ/WRITE HEAD



RFID BROCHURE

TURCK

IO-Link Products

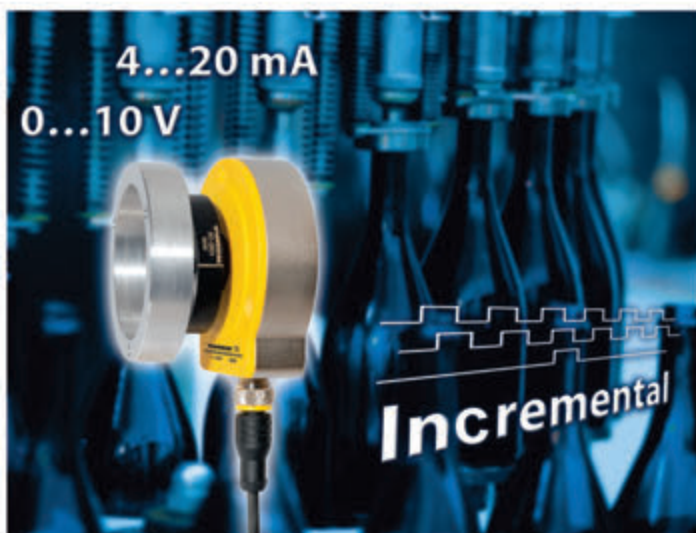


New Ultrasonic Sensor Series

- Enables user to cover large sensing ranges 40-300cm with fewer sensor variants
- Enables user to set diffuse mode and opposed mode operation as NC and NO switching outputs with a teach adapter
- Standard sensor versions also enable the setting of switch windows and two separate switching points with short blind zone
- High-end versions can be operated as a switch or as an analog sensor
- Different operating modes, temperature compensation or output function can be set via IO-Link

New Series of Passive Junction Boxes

- 4, 6 and 8 input connectors and a multi-pole cable output, two active IO-Link variants
- IO-Link junction boxes combine 16 switching status elements in a 16-bit IO-Link signal
- IO-Link junction box only require a single standard M12 cable
- Signals can come from proximity switches, pushbutton actuators, optical switches or temperature sensors with a switch output
- IO-Link junctions are provided with LEDs
- Can be connected to PNP or NPN LED circuits
- Available with a straight female connector, side female connector or fixed cable output in 2 or 10m lengths



QR24 Inductive Encoder

- Two more output signal variants to its RI360P-QR24 contactless inductive encoder series
- An economical alternative to more expensive optical or vision-based systems, IO-Link compatible
- High resolution, wear-free and magnetic field resistant encoders, withstands vibration or shocks
- Sensor and positioning element of encoder is fully encapsulated and designed as two independent and fully sealed units RI360P-QR24
- IP69K encoders can be fitted on all standard shafts with diameters up to 20 millimeters
- Encoder as a multiturn or singleturn version offered with SSI output

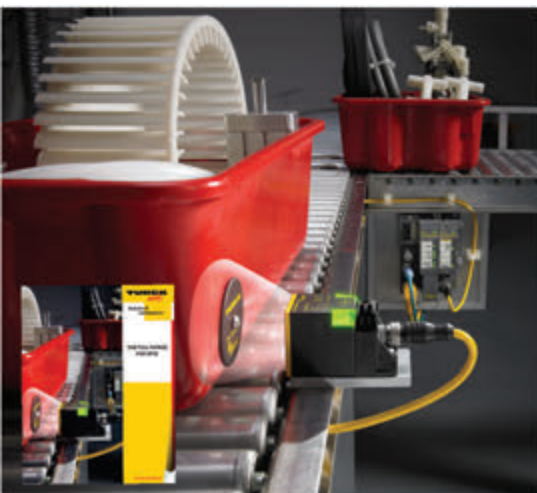
TURCK

Network Products



Q120 Read/Write Head

- IP67 aluminum housing
- Q120 combines a circular polarized antenna and the entire electronics in one
- Smaller than a 1 litre milk carton, suitable for applications with restricted mounting space
- Used for close and medium UHF range
- Q120 can be operated on all RFID modules of the Turck fieldbus systems – if necessary, also in parallel with HF components if required
- UHF reader measures 130 x 120 x 60 mm and supports the ISO 18000-6C and EPCglobal Gen2 standards



New TURCK Brochure Highlighting Full Line for RFID

The Full range for RFID Brochure serves as an overview of TURCK's BL ident® system. RFID handheld and other accessories such as power supplies and fieldbus connectivity are highlighted in brochure as well.



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Suppliers



Chartwell Case Study

Safe Level Measurement in Hazardous Locations



Recently, a large Canadian grain terminal was looking to improve the level monitoring inside their silos. Since this is considered a hazardous location, the challenge was finding a suitable solution while paying attention to initial costs as well as future costs. The solution would have to meet Canadian approvals for a Class 2, Div. 1, Group G environment.

The Terminal had already seen the benefits of an Intrinsically Safe (IS) approach to hazardous locations. They preferred the simplicity of IS, when compared to explosion-proof equipment and wiring methods.

The Turck Excom IS remote I/O is rated for use in a hazardous location, without the need for an explosion-proof enclosure and has a Profibus-DP gateway. With a small footprint and an open protocol like Profibus DP, Excom became an easy choice for the Terminal.

The traditional approach, would have seen a sensor cable wired to an IS isolator or barrier, then, wired to the PLC I/O. This would virtually double the number of connection points, conductors and panel space when compared to an Excom remote I/O installation. Excom would also allow direct access to sensor diagnostics over the Profibus Network, allowing personnel to quickly troubleshoot any issues before they became larger problems.

All of the Excom modules, including the power supply and gateway, are hot swappable and there are redundant capabilities for mission critical installations.

Since Turck offered both traditional IS and ExCom IS solutions, the Terminal was able to weigh the pros and cons of each approach and select the best solution for their project. In addition to the remote I/O, Turck created two custom products specifically for their project. The first was a custom made cable which was required to cope with existing (small diameter) conduits. The second, was a 12-wire armoured cable with blue IS jacket which engineering calculated was ideal for current needs and future expansion.

Various wiring methods including conduit and armoured cable had to be considered. It was important for installation to be rodent-proof. Conduit proved too costly. Furthermore, the Terminal wanted a continuous blue cable to indicate IS wiring as per the CEC.

In conclusion, the project procurement, installation, and commissioning went smoothly. Turck was able to listen to their customer's needs, combining existing products and custom products, tailoring a solution for the project.

What can Turck do for you to make your next project a success?



- Ivo Kokan
Chartwell Automation Vancouver



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