Your Global Automation Partner

TURCK

Products and Solutions
for Efficient Automation

Detect Precisely

Inductive uprox3 sensors

- Highest switching distances and factor 1 for all metals
- Excellent EMC properties and magnetic-field resistance
- Many installation options

Cabinet Guard

- Continuously detects environment variables in cabinets and protective housings and monitors their protection grade
- Integrated sensors to measure temperature, humidity and correct door closing
- Easy to install and retrofittable condition monitoring

Ultrasonic sensors

- Large measuring ranges up to 6000 mm
- Robust mechanics and front-flush membrane
- Simple operation due to Easy Teach

Photoelectric sensors

- Miniature and compact types, available in all operating modes
- Laser class 1 or 2
- Measuring and inspection tasks, personnel safety (categories 2 and 4)

Capacitive sensors

- Compact design
- Failsafe operation
- Resistant to mechanical and chemical stress

NAMUR sensors

- Available in many different designs, sizes and housing materials
- Inductive, capacitive and magnetic field sensors
- Ex approvals and SIL certification

Magnetic field sensors

- Fit on all types and brands of pneumatic cylinders
- Securely mounted
- Miniature designs

Encoders

- Extensive portfolio of standard devices
- Highest accuracy and interference immunity
- QR24 devices operate contactless and wear-free

Inductive linear position and angle sensors

- Measurement ranges 25 to 1000 mm/ 0 to 360°
- Magnet-free resonator principle for failsafe detection of signals; contactless and wear-free operation
- Different outputs (U/I, SSI, IO-Link, CANopen)

Vision sensors iVu

- Compact image processing solution for inspection tasks and code reading
- Integrated or external display
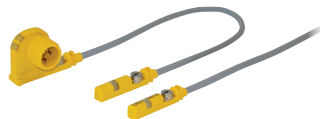- Direct teaching and operation of devices without PC

Pressure, temperature, flow sensors

- Different designs, measuring principles, and process connections
- Easy handling and mounting
- Highest accuracy and safety also available as Ex-i devices

Connect Reliably

Cable and connectors

- Connectors — different types and designs: more than 115.000 products available worldwide
- Overmolded or fieldwirable
- Different cable materials for every application

Passive junction

- Signal transfer and voltage distribution
- Different wirings
- Different designs

Inductive coupler

- Contactless transmission of data and power
- Large transmission distance up to 7 mm
- High power transmission (up to 12 W)
- Wear-free transmission of PNP and IO-Link signals

Interface modules and power supply units

- Modules to isolate, convert, process and transduce analog and digital signals
- Available in different standard designs and in various widths
- Innovative accessories: Power supply units in protection class IP67 and IP20, removable terminals, programming adapters

Communicate Effectively

EtherNet/IP™   PROFIBUS®   CANopen   Modbus   PROFINET®   DeviceNet™   Fieldbus Foundation

Compact I/O modules in IP67 and IP20

- Multiprotocol technology for use with PROFINET, EtherNet/IP and Modbus TCP
- Fully potted electronics (IP65/IP67/IP69K), vibration and shock proof
- Different variants with 4 to16 I/O channels , analog signal, IO-Link Master
- ARGEE browser-based programming enviorment converts Turck´s Ethernet block-I/Os into FLC compact controllers (Field Logic Controller)
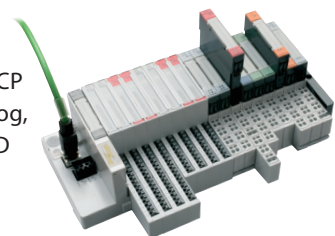
Industrial Ethernet switches in IP67

- Managed and unmanaged
- Fast Ethernet with 100 Mbps and Gigabit Ethernet
- Firewall, NAT, VLAN, network load monitoring
- Multicast support
- Profinet, Ethernet/IP, Modbus TCP

Modular I/O system BL20

- Gateways for many different fieldbuses and Ethernet, also available as programmable versions with CODESYS V3
- Multiprotocol technology for PROFINET, EtherNet/IP and Modbus TCP
- I/O modules available as: digital, analog, temperature, RS232/485/422, SSI, RFID
- Economy gateways and I/O modules

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Communicate Effectively

EtherNet/IP™   PROFIBUS®   CANopen   Modbus   PROFINET®   DeviceNet™   Fieldbus Foundation

Wireless system DX

- Flexible network modules for radio transmission of sensor signals
- Point-to-Point connection, star topology, multi-hop repeater network
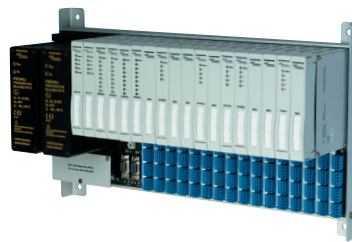- Configuration software

Modular I/O system BL67

- Gateways for many different fieldbuses and Ethernet, also available as programmable versions with CODESYS V3
- Multiprotocol technology for PROFINET, EtherNet/IP and Modbus TCP
- I/O modules available as: digital, analog, temperature, RS232/485/422, SSI, RFID, valve manifolds
- Connectivity: M8, M12, M23 and 7/8"

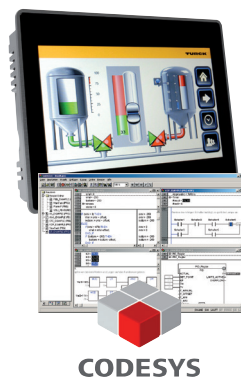## Remote I/O excom for zones 1, 2 and non-Ex area

- High system availability through redundant communication and power supply
- Integration in conventional control systems
- FDT technology for easy operation
- Consistant HART-communication for parameterization, diagnostics and process values

Automate Efficiently

HMI panel with CODESYS PLC

- Easy programming of control and visualization functions with CODESYS V3
- Can be flexibly used as a PROFINET master, EtherNet/IP scanner, Modbus TCP/RTU master or Modbus TCP/RTU slave
- Brilliant 4 to 21-inch TFT displays, TX7-series thanks to multitouch with gesture-control
- Pure HMI without controlfunction by TX1-series

CODESYS

Peripheral control

- CODESYS-programmable gateways for the I/O systems BL67 and BL20
- CODESYS-programmable BLOCK-I/O-PLC modules in IP65/IP67/IP69K

Cloud solutions

- Access to machine data at any time from anywhere
- Functions such as monitoring, alarmmessaging, reports already included
- Secure communication protocol, also via WIFI an telecommunication
- Easy and quick integration, in existing architectures as well
- Different variants of hosting, either hostet by Turck or as on-premise installation

Image processing systems

- Intelligent camera systems for numerous fields of application
- Integrated or external processing unit, IP68 rated types
- Standard and special lighting in all variances

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Automate Efficiently

Safety technology

- Space-saving hybrid module in IP67 for safety and standard I/Os with IO-Link
- IP67 block I/O modules with 8 safe inputs and outputs
- Profisafe and CIP Safety up to SIL3/PLe
- Safety light curtains, laser scanners, two-hand buttons
- Safety controller with connection to standard field buses

Compact LED signal indication

- Durable LED technology, made for continuous use 100,000 h (11 years)
- Insensitive to shock, impact, vibration and EMI
- IP67 rated, water and oil-tight, for direct installation in the system

Pick-to-Light system

- Optical user guidance for manual installation and commissioning processes
- Contactless pick-up alert
- Easy integration into systems via BL20 and BL67 I/O systems

RFID-System BL ident

- Flexible and easy integration into systems, thanks to a big variation of communication modules in IP67 and IP20
- Many application possibilities thanks to mixed HF and UHF operation
- Application-optimized data carriers and read/write heads, also for use in Ex areas
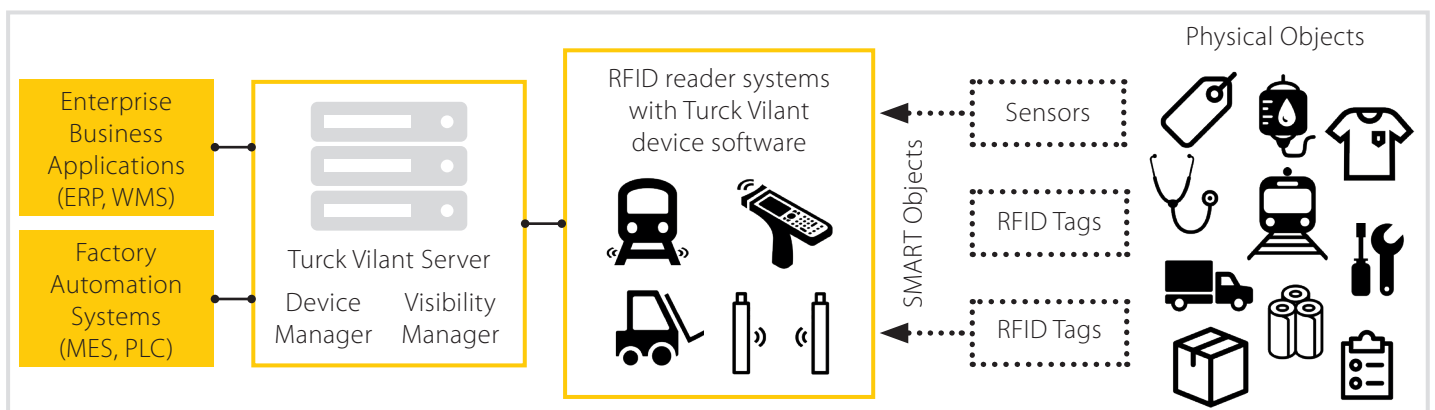
IO-Link

- Fieldbus-neutral communication standard for sensors and actuators
- Largest integrated IO-Link portfolio - from the sensor to the master
- Simple device configuration via control system or FDT/DTM
- Passive safety functions via IO-Link

Identify Reliably

Turck Vilant Systems

- Turnkey RFID solutions for production, logistics and more
- Data is collected with proprietary client-server applications on selected RFID hardware
- Device Manager manages RFID readers and reads, Visibility Manager compiles data for customer applications

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Your Global Automation Partner

Turck is the global partner for factory, process and logistics automation in numerous industries. With its digitally networkable solutions for efficient automation systems, the company is one of the pioneers of Industry 4.0 and IIoT. As a specialist in smart sensor technology and decentralized automation, we bring intelligence to machines and ensure reliable detection, transmission and processing of relevant production data — from sensor to cloud — not only with robust I/O solutions in IP67, but also with user-friendly software and services.

Automation solutions from Turck increase the availability and efficiency of machines and plants in numerous industries and applications, from the food, pharmaceutical or chemical industry to the automotive industry and mobile machinery to intra-logistics and packaging. Industry-specific application knowledge gained from an intensive exchange with customers, combined with electronics development and production at the highest level, provides optimal solutions for customers' automation tasks.

More than 4,650 employees worldwide develop, produce and sell products and solutions from the areas of sensor, fieldbus, control, cloud, connection and interface technology as well as HMI and RFID. The worldwide production and sales network comprises more than 30 subsidiaries as well as agencies in another 60 countries. State-of-the-art production facilities in Germany, Switzerland, Poland, USA, Mexico and China enable us as an independent family-owned company to be flexible and to quickly meet the requirements of local markets at all times.

Based on over 50 years of experience and extensive know-how in the field of industrial automation, Turck supports its customers with efficient service, from a first analysis up to tailor-made solutions and commissioning. Turck aims at enhancing the efficiency and productivity of production processes and machines continuously. The excellent quality of products combined with outstanding support of Turck specialists and fast delivery service guarantee high system availability.

Over 30 subsidiaries and 60 representatives worldwide!