

Your Global Automation Partner



The Company

Turck is one of the leading manufacturers in industrial automation. With more than 4.800 employees in over 30 subsidiaries as well as sales partners in further 60 countries, the family-owned company is always close to its customers. As a specialist in sensor, fieldbus, connection and interface technology and also RFID systems, Turck offers efficient solutions for factory and process automation. With their data and communication solutions, they are among the pioneers of the Industrial Industry of Things IIoT. State-of-the-art production facilities in Germany, Switzerland, the USA, Mexico and China enable the company to react quickly and flexibly to the demands of local markets.

The Industries

No matter if applied in machine and plant construction, in the sectors of automotive, mobile equipment, transport and handling, food and packaging or in the chemical or pharmaceutical industry, automation solutions and products by Turck increase the availability and efficiency of machines and plants. Moreover, customers also lower costs for purchase, storage, installation and operational safety through effective standardization. Industry-specific knowledge, gained through intensive dialog with customers paired with electronics development and production on highest level, ensure optimal solutions for customer's automation tasks.

The Service

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!

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Your Global Automation Partner

Products and Solutions for Efficient Automation



Collect Precisely

Inductive uprox®3 sensors

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



Capacitive sensors

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



Ultrasonic sensors

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



Encoders

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



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



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



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 3)



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)



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
- Vermolded 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, removable terminals, programming adapters



Communicate Effectively

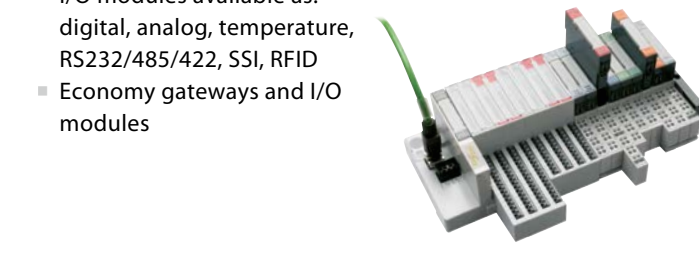
Compact I/O modules in IP67 and IP20

- 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 to 16 I/O channels, analog-signal, IO-Link Master
- ARGEE browser-based programming environment converts Turck's Ethernet block-I/Os into FLC compact controllers (Field Logic Controller)



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



Diagnostic Power Conditioner DPC

- FOUNDATION™ fieldbus modular power supply for simple and redundant applications
- Excellent efficiency and high output power (28 V at 800 mA)
- Network diagnostic for commissioning support and long-term monitoring via FF-HSE, DTM and web interface



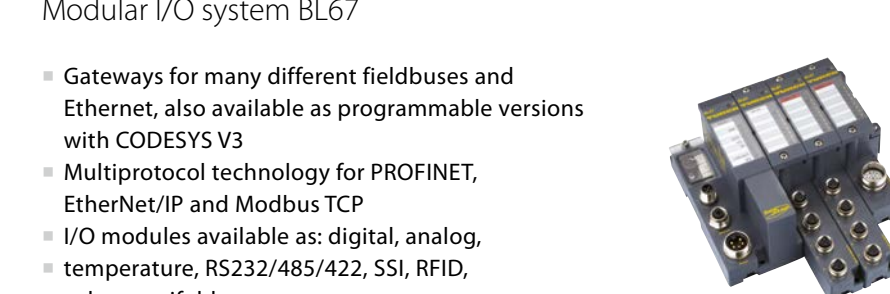
Hybrid safety I/O module TBPn and TBIP

- Rugged IP65/67/69K module for PROFINET and CIPsafe
- Flexible use through safety and standard I/Os, as well as IO-Link in one device
- Variably expandable via I/O hubs with up to 32 standard I/Os
- Safety logic in the module



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"



Wireless system DX

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



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
- Constant HART®-communication for parameterisation, 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

Peripheral control

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



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



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



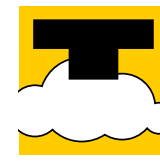
Pick-to-Light system

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



Cloud Solutions

- Access to machine data at any time from anywhere
- Functions such as monitoring, alarm-messaging, reports already included
- Secure communication protocol and different variants of hosting
- Easy and quick integration, in existing architectures as well



Safety Technology

- Space-saving PROFINET/PROFINET-safe hybrid module for safety and standard I/Os with IO-Link
- Safety light screens, laser scanners, two-hand buttons
- Safety controller



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

