Solutions for the Pharmaceutical Industry

For over a decade, Turck is your trusted partner for the pharmaceutical industry. Our customers around the globe benefit from industry-specific automation solutions in the areas of sensors, fieldbus, connection and I/O technology as well as RFID solutions – from pharmaceutical companies, architectural and engineering

Our support ranges from worldwide project management to the

Whether it is new greenfield construction or expansion or modernization of existing production facilities, the Turck pharmaceutical team will be happy to assist you with providing application spe-

cific solutions for your projects in many fields: Fermenter control, mixing & batching, water and clean steam production and distribution, filtration, and chromotology, the handling of solvents etc.

firms and super skid suppliers to system integrators and electrical application-specific advice on site. From planning to commissioning, we will guide you in all phases of the project.



28 subsidiaries and over 60 representations worldwide!



Identification of portable tanks

Easy connection of field devices

and splitter boxes reduces cabling

Efficient and failsafe connection of field devices

realized with our quick disconnect connectors

Comprehensive portfolio with connectors, cables

Flexible and highly chemical-resistant PVC cables

Shielded twisted pair cables for analog and HART®

thanks to the process wiring connection technology

- The RFID system BL ident ® ensures increased plant efficiency and traceability of the production processes through the reliable detection of mobile
- Application-optimized data carriers, even for direct mounting on stainless steel, and for use in the pharmaceutical production





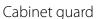
- Comprehensive know-how on fieldbus technology for pharmaceutical applications with solutions for Foundation Fieldbus, PROFIBUS, Profibus-PA, Ethernet, DeviceNet[™] and AS-i
- Comprehensive portfolio of fieldbus solutions for systems and control cabinets
- Application and customer-optimized device selection for super skid suppliers



Remote signal I/O

- The modular I/O systems excom® and BL20 support application-optimized signal processing
- Use in the non-Ex and Ex areas in zones 1 and 2, as well as 21 and 22
- High system availability through redundant communication and power supply
- Support of all standard fieldbus protocols





- Monitoring of the door as well as exceedance of temperature and interior
- Applicable up to zone 1



Coupling stations/Elbow distributors

- The inductive uprox®+ WD sensors with terminal chamber are easily commissioned and maintained
- Tightly sealed housings that are resistant to
- Same increased switching distance on all metals Version with M12 connector and ATEX approval for



Monitoring of quarter turn actuators

- The inductive DSU35 dual sensors capture the valve
- position of quarter turn actuators Easiest assembly and adjustment
- Detergent-resistant plastic housing
- Analogue output option
- Various electrical output signals: Intrinsically safe, AC/DC 2-wire, DC 3-wire, NAMUR, AS-i, DeviceNet™





Solutions for the Pharmaceutical Industry







Collect Precisely

Linear position sensors and encoders

- Contactless measuring system
- Easiest assembly and adjustment
- i. a. ATEX approval for zones 1 and 21

Flow sensors

Measurement and monitoring of flow rates

Pressure and temperature sensors

Many different process connections Parametrizable via standard interfaces

Many different process connections

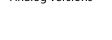
Simple operation

Robust design

Different compact designs



- Position feedback of fittings
- Optimum connection possibilities thanks to the compact design
- Comprehensive range of accessories
- Easily mounted on all standard rotary
- actuators SIL versions
- Analog versions





- Available in many different designs, sizes and housing materials
- Inductive, capacitive ultrasonic and mag-
- Ex approvals and SIL certification
- Wash down

Connect Reliably

Cable and connectors

- Connectors different types and designs
- Ready-made or customizable
- Different cable materials for every application







Foundation™ fieldbus/Profibus-PA

- Multibarriers, junction boxes in IP67 and IP20, ready-made cables and many Rugged and space-saving designs for
- harsh environments
- Suitable for FISCO applications

Interface devices

- For separation, supply, conversion and protection tasks
- Available in modular housing for DIN rail mounting, as backplane solution or as cartridge in IP67 housing
- Many different input and output signals



Communicate Effectively

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

- HART® and NAMUR signals
- High availability through redundant communication and power supply
- Integration in conventional control systems
- FDT technology for easy operation





BL20 I/O System

- HART® and NAMUR signals
- Connection to different control systems
- ATEX approval for zone 2
- Redundant power supply, optional

Diagnostic Power Conditioner DPC

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



Automate Efficiently

RFID system BL ident®

- Compact IP67 solution for different
- HF/UHF mixed operation possible, UHF read/write heads acc. to ISO 18000 6C Application-optimized data carriers and
- read/write heads for Ex and dust-Ex areas
- Connection to different control systems



Cabinet Guard IMX12-CCM

- Efficient condition monitoring for cabi-
- nets and protective housings
- Continuous monitoring of temperature, interior humidity and improperly closed
- Data recording
- Intrinsically safe 2-wire transducer power source for use in hazardous areas



Visual-SPS-Lösung VT

- SPS, HMI and Fieldbus-Master
- Programming mit CODESYS, Visualization with QViS
- PROFIBUS-DP Master, Modbus RTU Master/Slave













- netic field sensors