Maximum Transparency for the Processes

BL ident® Components

Read/write Heads
- Fully encapsulated, rugged HF read/write heads, rectangular and cylindrical design (M18, M30)
- UHF read/write heads designed for industrial use
- Read/write heads for the Turck RFID and fieldbus systems
- Modular interface module, up to four HF interfaces
- Small antenna lengths, one meter (M18) or several meters (M30), ensuring maximum data transmission

Tags
- EN50155-rated Ultra-high frequency (UHF) tags up to 90 m in high-speed and nearly error-free writing mode
- High temperature tags: -40 to +125 °C
- High data throughput, write cycles up to 10^8
- Tag for destination, production or services, data retention period up to 10 years
- Tag for consumption and use of the product, data retention period up to 10 years

RFID Interface and Connectivity
- RFID connections via the read/write heads to decentralized EDS-IFD, EDS-IFD Compact, TC-HA RFID, UL-BT “Boutonnet”, Ultranet and Ethernet
- Connection between modules: EN 60848 and EN 60 529
- Modules compatible with BL ident and UL BT
- Per standard terminal, connection and supply cables
- Cable length: no restriction based on up to 50 m

Accessories
- Expansion range of accessories for precise and easy mounting of read/write heads and tags
- Protective caps and housings for increased protection against welding splinters
- Mobile HF and UHF handhelds for reading and writing of mobile tags Available with touch screen, Bluetooth, WLAN, barcode scanner and application software

Efficient Parameterization
The BL ident® system can be parameterized via FDT/DTM technology via PACTware®. Write and read commands as well as diagnostic functions can also be executed without control. With the TBEN modules, commands and parameters can be set via the web server.

Easy Integration
Integrated with PLC systems can be implemented without separate configuration. From simple PLCs to fieldbus, the options are enormous. HF and UHF interfaces in the data bus can be used for information transmission. The necessary RFID functionality.

Easy System Integration

Bus Modul
- HF read module for operating up to 12 bus-capable HF read/write heads and for data access depending on the load requirement

System Overview

Your Global Automation Partner
www.turck.com

Over 30 subsidiaries and 60 representatives worldwide!
BL ident® – Modular RFID System for HF/UHF Operation

System Assembly

Each BL ident® system can be configured for various high-end applications like the HF-UHF system. Unibody models enable easy integration into existing systems. Additional sensors and actuators can be easily connected and operated at the same time. The modular technology concept and the control panel mounted on the DIN rail in the control cabinet. The Turck’s BL20 modular system for mounting the networks OPC UA, PROFINET, EtherNet/IP™, Modbus TCP, TCP/IP, PROFIBUS-DP, the hard-wired interface or the Ex-area.

Long ranges UHF technology in logistics

High performance UHF (13.56 MHz, ISO15693) and UHF technology (840…960 MHz, ISO 18000-6C/EPCglobal Class 1 Gen 2) in one identification solution. Tags can be read and written on many writing cycles, for example, up to 0.5 ms/byte. TF (840…960 MHz) and 12 V DC (90…135 kHz) are available for all standard fieldbus protocols. Tags can be read and written on many writing cycles, for example, up to 0.5 ms/byte. TF (840…960 MHz) and 12 V DC (90…135 kHz) are available for all standard fieldbus protocols.

RFID systems can be used in many various production environments and can be extended at any time. The RFID technology concept extends the service interface parameters which are available for the standard handhelds, SIMATIC, high-speed applications, as well as high-speed applications, as well as high-speed applications, as well as high-speed applications, as well as high-speed applications, as well as high-speed applications, as well as high-speed applications, as well as high-speed applications, as well as high-speed applications, as well as high-speed applications, as well as high-speed applications, as well as high-speed applications, as well as high-speed applications, as well as high-speed applications, as well as high-speed applications, as well as high-speed applications, as well as high-speed applications, as well as high-speed applications, as well as high-speed applications, as well as high-speed applications, as well as high-speed applications, as well as high-speed applications, as well as high-speed applications, as well as high-speed applications, as well as high-speed applications, as well as high-speed applications, as well as high-speed applications, as well as high-speed applications, as well as high-speed applications, as well as high-speed applications, as well as high-speed applications, as well as high-speed applications, as well as high-speed applications, as well as high-speed applications, as well as high-speed applications, as well as high-speed applications, as well as high-speed applications, as well as high-speed applications, as well as high-speed applications, as well as high-speed applications, as well as high-speed applications, as well as high-speed applications, as well as high-speed applications, as well as high-speed applications, as well as high-speed applications, as well as high-speed applications, as well as high-speed applications, as well as high-speed applications, as well as high-speed applications, as well as high-speed applications, as well as high-speed applications, as well as high-speed applications, as well as high-speed applications, as well as high-speed applications, as well as high-speed applications, as well as high-speed applications, as well as high-speed applications, as well as high-speed applications, as well as high-speed applications, as well as high-speed applications, as well as high-speed applications, as well as high-speed applications, as well as high-speed applications, as well as high-speed applica...