



Identification systems



RFID antenna with a 200 mm range and diagnostic LED



RFID 13.56 MHz



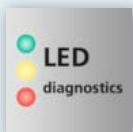
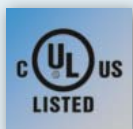
Diagnostic and display LEDs for easy set-up

Communication to the PLC via DTE10x evaluation unit

Connection with rotatable M12 connector for standard cables of up to 20 m

Adjustable transmitting power

Extensive range of mounting accessories



A multitude of applications with long ranges

The ANT600 antenna is ideal for long writing / reading distances.

A typical application is product tracking in the production process. The ANT600 may be used for storing e.g. production data or quality parameters on the ID tags.

In material logistics, the RFID system can easily determine whether the material and quantity of material match the production order.

In plant control, product-specific machine parameters can be read from the ID tag attached to the product.

The transmitting power can be adjusted in order to define different ranges.



Advantages of ifm's RFID solutions:

Connection to the RFID evaluation units of the DTE10x series.

The RFID antennas are designed for connection to the compact ifm evaluation unit DTE10x. This unit offers four M12 sockets for connection of up to four RFID antennas. Optionally, unused RFID inputs can also be used for the control of outputs or the detection of digital input signals.

Two digital sensors can be connected to each socket set as an input; and an actuator to each output.

For communication to the higher-level controller, the DTE10x has an EtherCAT, Profibus, Ethernet TCP/IP, EtherNet/IP or PROFINET interface, depending on the design.

The robust design with protection rating IP 67 permits use in harsh industrial environments.


Application example: RFID for detection of material during manufacture and of inflow and outflow in high-bay storage facilities

The ifm RFID solution with connection to a Siemens PLC is used as a system. The ifm components DTE 100, ANT600 and the RFID tag E80383 are used. The task consists of identifying an article marked with a 14-digit variable code and an order number.









Benefit for the customer: the indication and booking of the material inflow / outflow in real time closes the gap between the material stock in the warehouse and the stock indicated in the customer's software system. The system knows at all times the location and number of products of all types. No need for complex documentation. Lost paperwork is a thing of the past.

The transponder is firmly connected to the tank. Long distances are no problem thanks to the 200 mm writing / reading range of the RFID antenna.

Products

Description	Order no.
RFID evaluation unit	
 RFID evaluation unit, Profibus DP interface	DTE100
RFID evaluation unit, PROFINET interface	DTE101
RFID evaluation unit, EtherNet/IP interface	DTE102
RFID evaluation unit, EtherCAT interface	DTE103
RFID evaluation unit, Ethernet TCP/IP interface	DTE104

Products

Description	Order no.
RFID antenna ANT600	
RFID antenna 13.56 MHz, M12 plug	ANT600
Mounting accessories for: ANT600	
Bracket fixture	E80335
Perforated sheet fixture	E80336
Bracket rod fixture	E80337
RFID antennas	
 RFID antenna 13.56 MHz, M12 design, flush	ANT410
RFID antenna 13.56 MHz, M12 design, non-flush	ANT411
 RFID antenna 13.56 MHz, M18 design, flush	ANT420
RFID antenna 13.56 MHz, M18 design, non-flush	ANT421
 RFID antenna 13.56 MHz, M30 design, flush	ANT430
RFID antenna 13.56 MHz, M30 design, non-flush	ANT431
 RFID antenna 125 KHz	ANT512
RFID antenna 13.56 MHz, ISO 15693	ANT513
 RFID antenna 13.56 MHz, 1 m cable, M12 plug	ANT515
RFID antenna 13.56 MHz, 2 m cable, M12 plug	ANT516
Antenna adapters	
 Adapter to increase the ranges for RFID antenna type M18	E80390
 Adapter to increase the ranges for RFID antenna type KQ	E80391
 Antenna adapter for a wider sensing field for RFID antenna type KQ	E80392
RFID transponders for: ANT410, ANT411, ANT420, ANT421, ANT430, ANT431, ANT513, ANT515, ANT516, ANT600	
ID tag/51x51/06 – 13.56 MHz, 10 pcs	E80400
ID tag holder for ID tag E80400	E80401
ID tag/M5x16.5/06 – 13.56 MHz, 10 pcs	E80347
Tag fixture for workpiece carriers with ID tag E80345, 13.56 MHz, 896 bits	E80348
ID tag/34X6.0/06 – 13.56 MHz, 1024 bits, 10 pcs	E80342
ID tag/90X34x7/06 – 13.56 MHz, 896 bits, 5 pcs	E80343
ID tag/16X3/06 – 13.56 MHz, 896 bits, 10 pcs	E80344

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