Seamless Traceability.

Four powerful antennas for reliable identification up to 12 m—in fractions of a second.

PEPPERL+FUCHS

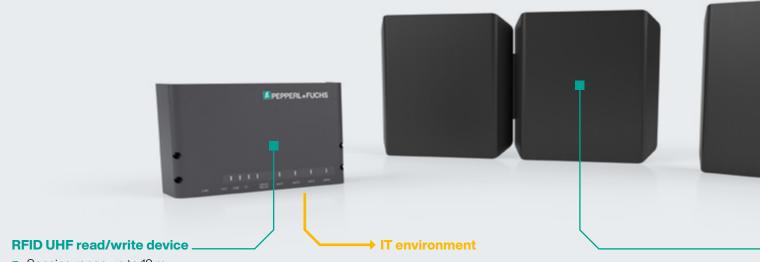F800 Series RFID UHF Read/Write Device for Gate Applications

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Full Transparency in One Pass

The powerful F800 RFID read/write device can detect a large number of tags simultaneously and in seconds. The reliable and seamless identification by means of RFID enables cost-efficient, fully automated data acquisition for the optimization of logistics processes.

RFID UHF read/write device

- Sensing range up to 12 m
- Up to 4 antennas can be connected
- 8 status LEDs for easy diagnosis
- Serial and Ethernet interfaces

IT environment

High Sensitivity, Reliable Detection

Up to four antennas can be connected to detect objects with RFID tags, such as reusable containers, from different directions and over long distances of up to 12 m. The reliable identification of all tags is ensured by the high reception sensitivity and the high output power of 2 W. The read/write device can detect a very large number of tags simultaneously and provide valid data even in time-critical applications. Eight LED lights provide permanent feedback on the status and function of the device and enable quick diagnosis.

Rugged Technology, Easy Operation

The RFID system is designed for industrial use and functions perfectly even in harsh environments. The UHF read/write device is accommodated in a rugged diecast aluminum housing. A previously used configuration can be easily transferred from one device to another via a USB stick using the configuration cloning function. This makes it easy to replace devices and minimizes downtime. The F800 series has serial and Ethernet interfaces and industrial M8 and M12 connectors. Various types of antennas are available for optimum adaptation to the operating location. Users also benefit from the comprehensive RFID portfolio from Pepperl+Fuchs, meaning they can obtain all devices and systems for their processes from a single source.

Antennas

- Circular polarization
- Rugged design (IP67 degree of protection)
- Different antenna types

Highlights

- Cost-effective RFID gate solution for logistics applications
- Powerful UHF read/write device with up to four external antennas
- High reception sensitivity and high output power ensure reliable tag detection
- Fast reading of large UHF tag populations—even in time-critical applications

Extract from technical data	IUR-F800* read/write device
Sensing range	Up to 12 m
Output power	100 mW … 2 W
Interfaces	Ethernet, RS232, USB
Temperature range	−40 °C … +70 °C
Operating frequency	865 MHz … 868 MHz, 902 MHz … 928 MHz, others on request

Antenna type	IUA-F830*	IUA-F860*
Opening angle	65° × 65°	30° × 65°
Gain	9 dBic	11 dBic
Polarization	Circular	Circular

For more information, visit
pepperl-fuchs.com/px-F800

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- Signal Conditioners
- FieldConnex® Fieldbus Infrastructure
- Remote I/O Systems
- Electrical Explosion Protection Equipment
- Purge and Pressurization Systems
- HMI Systems
- Mobile Computing and Communications
- HART Interface Solutions
- Surge Protection
- Wireless Solutions
- Level Measurement

Industrial Sensors

- Proximity Sensors
- Photoelectric Sensors
- Industrial Vision
- Ultrasonic Sensors
- Rotary Encoders
- Positioning Systems
- Inclination and Acceleration Sensors
- Industrial Ethernet
- AS-Interface
- IO-Link
- Identification Systems
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