

## UHF Vehicle Access Control Reader ID MAX.U1002



### FEATURES

- Combination of RFID Reader and Access Controller with read ranges of up to 12 meters (40 ft)
- Management of nearly 9.000 vehicles
- Anti Passback
- Secure Key Store (Secure Element)
- Simultaneous monitoring of up to 2 lanes
- Quick and easy update of authorization data via Ethernet interface
- USB Service Interface
- Non-volatile event memory
- Buffered real time clock
- Teach-in-mode



## **SYSTEM DESCRIPTION**

ID MAX.U1002 is an UHF Vehicle Access Control Reader that combines the features of a RFID reader and an access controller in one device.

Place of use is everywhere where vehicles should be granted permanent access to employee parking lots, driveways to companies, authorities or other closed facilities (Perimeter Protection).

For identification of a vehicle in connection with the ID MAX.U1002 passive, maintenance-free UHF transponders are used, which can be stuck behind the windscreen of the vehicle. ID MAX.U1002 has a secure key store with full support of transponders with encryption techniques according to EPC Class 1 Gen 2 V2 specification like NXP UCODE DNA to provide maximum security of your application. This allows a secure authentication of detected transponders and prohibits access of transponders with cloned serial numbers.

With ID MAX.U1002 nearly 9.000 access permissions can be managed and approx. 3.000 access control events can be stored. Each user can be assigned to additional temporal access parameters. For this, there are 15 user-definable time zones available. Holidays and vacation days can be included, easily.

To monitor multiple lanes or the simultaneous checking of entry and exit, there are two antenna ports and two digital outputs available, alternatively two relays as signal transmitter for barrier- or gate control units.

### **Programming & Administration**

Using the free software myAXXESS Manager, user data and access parameters can be easily administrated on a PC and transferred to ID MAX.U1002 by using a temporary network connection. After the transfer of user data, the reader can run offline as a stand-alone device.

With the help of a USB stick, the event buffer as well as the entire configuration including the access authorization can be read out on the ID MAX.U1002. The simple "configuration cloning" allows this configuration to be conveniently copied to other devices by the same route.

The "Teach-In Mode" is used to teach the transponders to be accessed without the use of the software. If the reader is in this mode, all read transponders are automatically transferred to the access database.

### **Loop detectors and motion detectors as useful accessories**

Loop detectors and motion detectors as pulse for starting the identification process do not only ensure an energy efficient operation of ID MAX.U1002. They also guarantee that always the right barrier or door is opened when several lanes exist. For this ID MAX.U1002 offers a digital input.

Suitable loop detectors and motion detectors are available from FEIG ELECTRONIC.



Perimeter Protection:  
Fast and safe access to industrial plants etc.



Parking Management:  
Comfortable access without waiting

Note:  
FEIG ELECTRONIC reserves the right to change specification without notice at any time. State of information: May 2017.

## TECHNICAL DATA

### **ID MAX.U1002:**

System memory	Non-volatile event memory
- access permissions	up to 8.950
- access control events	up to 3.000
- time zones	maximum 15
Clock	Real time clock, buffered
Housing	Aluminium, powder coated
Dimensions (W x H x D)	260 mm x 157 mm x 65 mm (10.24 inch x 6.18 inch x 2.56 inch)
Weight	approx. 1.800 g
Protection class	IP 53 (IP 64 with protection cap*)
Color	RAL9003 Signal white
Operating frequency	
- Version EU	865 MHz up to 868 MHz
- Version FCC	902 MHz up to 928 MHz
Supply voltage	24 V DC +/- 10%
Current consumption	max. 24 VA
Output power	
- Version EU	max. 2 W ERP
- Version FCC	max. 4 W EIRP
Read range	up to 12 m (40 ft)
Antenna	Connection of max. 2 antennas (SMA female 50 Ohm)
RF-Diagnosis	RF-channel monitoring Antennen SWR control Internal overheating control
Outputs	
- 2 optocoupler	max. 24 V DC / 20 mA
- 2 relays	max. 24 V DC / 1 A switching current, 2 A permanent current
Inputs	2 optocoupler (max. 24 V DC / 20 mA)
Programming interfaces	Ethernet, USB Mini (On-the-go)
Supported transponders	EPC Class 1 Gen 2
Output signals	16 LEDs for diagnosis of reader operation and antenna status
Temperature range	
Operation	-25 °C up to 55 °C
Storage	-25 °C up to 85 °C
Relative humidity	5 % - 95 % (non-condensing)
Vibration	EN 60068-2-6 10 Hz to 150 Hz: 0,075 mm / 1 g
Shock	EN 60068-2-27 Acceleration: 30 g

## ORDER DESCRIPTION

**ID MAX.U1002-EU (Article number: 4292.001.00)**

**ID MAX.U1002-FCC (Article number: 4293.001.00)**

### **Available accessories:**

- Antenna ID ISC.ANT.U600/270-EU / -FCC
- Antenna ID ISC.ANT.U270/270-EU / -FCC
- Antenna ID ISC.ANT.U170/170-EU
- corresponding antenna mounting sets
- Antenna cable ID ISC.ANT.C2-A
- Antenna cable ID ISC.ANT.C6-A
  
- Windshield transponders ID CTF-U
  
- Mounting set for DIN rail systems  
ID ISC.LRU3x00/1002-MS
- Connector sealing cap ID ISC.LR.CSC-IP64

## STANDARD CONFORMITY

### Radio approval

- Europe EN 302 208
- USA FCC 47 CFR Part 15
- Canada IC RSS-GEN, RSS-210

### EMC

EN 301 489

### Safety

- Low Voltage EN 60950
- Human Exposure EN 50364

\*\*available for free when buying an ID MAX.U1002

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