FEIG ELECTRONIC

ID LRU500i

UHF Compact Reader

- UHF Long Range Reader with integrated antenna
- Circular-polarized antenna for any transponder orientation
- Antenna port for additional external antenna
- Up to 10 m read range for Automatic Vehicle Identification (AVI)
- Robust and compact housing for outdoor use (IP67)
- Integrated signal light (red/green)
- Secure Key Storage for application keys
- Fast and easy mounting and installation
- Up to 2 W ERP transmitting power

Top Performance

The Compact Reader is ideal for vehicle identification and parking access control applications in airports, universities, gated communities and others.

This small vehicle access control reader is installed next to the barrier, gate or bollard, allowing vehicles to conveniently enter the parking area without the need of stopping at the entry.

UHF Compact Reader with integrated antenna and signal light

Small and powerful UHF RAIN RFID Long Range Reader for Automatic Vehicle Identification (AVI).

Product Details	ID LRU500i

Mechanical Data

Housing	Plastic (ASA-PC), Aluminium
Dimensions	290 mm x 290 mm x 100 mm (11.4 x 11.4 x 3.9 inch)
Weight	2.800 g
Mounting	VESA FDMI MIS-D 100 mm x 100 mm
Protection Class	IP 67
Colour	Anthracite, translucent

Electrical Data

Power Supply	12...24 V DC (±10%), PoE+
Power Consumption	typical 16 W (22 W with PoE+)
Operating Frequency	
- Variant EU:	865 MHz up to 868 MHz
- Variant FCC:	902 MHz up to 928 MHz
Output Power	
- Radiated (int. antenna)	max. 2 W ERP
- Conducted (ext.antenna)	max. 1 W, configurable in steps of 100 mW
Antenna Connector for external antenna	1x R-TNC-Jack (50 Ω) (Reverse-TNC)
RF-Diagnosis	RF-channel monitoring, Antenna SWR control, Internal Overheating Protection
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
Interfaces	
- Variant BD:	Wiegand, RS485, USB (On-The-Go)
- Variant PoE:	Ethernet, USB (On-The-Go)
Protocol-Modes	ISO Host Mode, Scan Mode, Notification Mode, Buffered Read Mode

* Only applies to variant PoE.
Variant BD offers no optocoupler output and only one relay output.

Features

Supported transponder types	RAIN RFID EPC Class1 Gen2 EPC Class1 Gen2 V2 ISO 18000-6-C ISO 18000-63
Indicator	Signal light with red/green/blue 10 LEDs to indicate operation and antenna state
Network Services	TCP/IP, DHCP
Other Features	Anti-Collision, Output of RSSI values and phase angle, Battery-assisted real-time clock, Supports encrypted transponder communication, Secure Key Storage, Config Cloning function

Environmental Conditions

Temperature range	
- Operation	-25° C up to 55° C
- Storage	-25° C up to 85° C
Humidity	5% to 95% (non-condensing)
Vibration	EN 60068-2-6 10 Hz to 150 Hz: 0,075 mm / 1g
Shock	EN 60068-2-27 Acceleration: 30 g

Applicable Standards

Radio Regulation	
- Europe	EN 302 208
- USA	FCC 47 CFR Part 15
- Canada	IC RSS-GEN, RSS-210
- India	BIS IS 13252 Part 1
EMC	EN 301 489
Safety	
- Low Voltage	EN 62368
- Human Exposure	EN 50364
Others	RoHS, WEEE

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