

OBID i-scan[®] UHF

UHF Long Range Reader ID ISC.LRU1002



SPECIAL FEATURES

- Robust metal housing for use in industrial environment
- 2 Watt Output Power
- High Receive Sensitivity
- Read Range up to 8 m (26 ft)
- 4 Antenna ports (internal Multiplexer)
- 4 Inputs / Outputs suit industrial needs
- Output of RSSI values
- 16 LEDs for easy diagnostic and analysis of the operating state
- Low price



OBID[®] – RFID by FEIG ELECTRONIC

Description

The UHF Long Range Reader ID ISC.LRU1002 can be used in different kind of applications and is a cost effective alternative to powerful high performance readers. The ID ISC.LRU1002 is licensed according to ETSI, FCC and IC and presents itself with its general features as a future trend development towards the ID ISC.MRU200. The reader is characterized by the following features:

- High receiver sensitivity cares for an enlarged and at the same time homogeneous tag detection range
- Possible read range of up to 8 m *
- Support of Transponders according to EPC Class1 Gen2 and ISO 18000-6-C
- Reader protection against fault conditions like antenna shortcut, antenna mismatching and electrostatic discharge
- Robust aluminum die case housing for usage in rough and industrial environments
- Increase of enclosure rating to IP 64 due to optional available connector sealing cap for the connector block
- Quick installation due to easy access to interfaces and antenna ports
- 1 Input and 3 outputs suit industrial needs and allow control of external components and signalization of different events
- Antenna Port Indication: Display of active antennas (green), read events (blue) and possible antenna mismatching (red) via 4 separate LED's
- Various configuration options for software and hardware
- 3 hardware interface ports: Ethernet, RS232, and USB
- Support of EPCglobal™ Low Level Reader Protocol with special LLRP Library
- Readout of RSSI data for localization of identified transponders
- High Read Rate for fast and reliable identification of transponders in Dense Reader Mode

* The maximum Read Range is depending on the used antenna, the antenna cable, the used transponder and the environmental conditions.

Typical Application

- Vehicle Access Control
- Logistics
- Installation on a forklift
- Industry
- Automotive
- Traffic Monitoring
- Traffic management systems
- Parking slot management
- Laundry services
- Waste management



Note:
FEIG ELECTRONIC reserves the right to change specification without notice at any time.
Stand of information: October 2013

Technical Data

Mechanical Data

Housing	Aluminum, powder coated
Dimensions	260 mm x 157 mm x 65 mm (10.23 x 6.18 x 2.56 inch)
Weight	1.800 g
Protection Class	IP 53, IP 64 (with protection cap)*
Color	RAL9003 Signal-White

Electrical Data

Power Supply	24 V DC (± 10 %)
Power Consumption	max. 18 VA
Operating Frequencies	
- Version EU:	865 MHz to 868 MHz
- Version FCC:	902 MHz to 928 MHz
Output Power	100 mW to max. 2 W configurable in steps of 100 mW Tolerance: ± 3 dB
Antenna Connector	4 x SMA-Female (50 Ohm); integrated Multiplexer
RF-Diagnosis	RF-channel monitoring Antenna SWR control internal overheating control
Outputs	
- 2 Optocoupler	max. 24 V DC / 30 mA
- 1 Relay	max. 24 V DC / 1 A switching current, 2 A permanent current
Inputs	
- 1 Optocoupler	max. 24 V DC / 20 mA
Interfaces	RS232, Ethernet, USB, Wiegand (Scan Mode Interface)
Protocol-Modes	ISO Host Mode, Scan Mode (HID), Notification Mode, Buffered Read Mode

Features

Supported transponder types	EPC Class1 Gen2 ISO 18000-6-C (Upgrade Code)
Signaler	16 LEDs for diagnosis of reader operation and antenna status
Other Features	Anti-Collision RSSI

Environmental Conditions

Temperature	
- Operation	-25 °C to 55 °C
- Storage	-25 °C to 85 °C
Humidity	5 % to 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

Applicable Standards

Radio Regulation	
- 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

* Optionally a connector sealing cap is available which covers the connectors, offers a pull relief for the connected cables and guarantees enclosure rate IP 64.

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