

i-scan[®] UHF

Compact RFID UHF
Mid Range Reader
with integrated
antennas

ID ISC.MRU200i-USB
USB Variant

ID ISC.MRU200i-E
LAN Variant



RFID Multi Protocol Mid Range Reader for identification of UHF transponders (865-928 MHz) especially in process control and automation

Features:

- 2 integrated antennas (Near Field and Far Field); Parallel use is possible by multiplexer on board
- Low Power Mode for limitation of reading range
- Multi-tag Reader (EPC Gen2, optional ISO18000-B/-C) with several interface options
- High speed anti-collision function identifies large quantity of tags. Buffered Read Mode and notification channel function provides data filtering and buffering
- Available as ETSI- or FCC variants
- Host protocol compatible with OBID i-scan[®] HF reader family

Description

Compact UHF Mid Range Reader with integrated antennas ID ISC.MRU200i-USB /-E

With two integrated antennas (Near Field and Far Field), the new Compact UHF Mid Range Reader ID ISC.MRU200i can be used for automation and at workstations, where single tagged products were identified.

So the reader is suitable to be operated for example in the textile industry or pharmaceutical industry.

Specific feature of the ID ISC.MRU200i is the combination of two different functional principles, inductive coupling and backscatter coupling in one device.

The Near Field Antenna is necessary to identify midget UHF transponders, reducing negative influences of liquids by using backscatter coupling.

While the Near Field Antenna is suitable for identification of small objects, the Far Field Antenna will be used for process control within automation, especially.

The very directional electromagnetic field allows a very precise identification of objects.

Due to the so-called "Low Power Mode", the reading range can be limited, additionally.

So, only these objects will be identified which has to be identified at each reading point.

Unrequested identification of tags, for example at the neighboring conveyor belt will be avoided in that way.

Due to the integrated multiplexer, parallel operation of both antennas is possible.

The reader is offered in an elegant plastic housing as USB- and Ethernet variant and is available as ETSI- or FCC reader.

Both variants have a RS232 interface. The USB variant a RS485/RS422 interface, additionally.

The reader operates with EPC class 1 Gen 2 transponders ex stock;

firmware versions for ISO 18000-6-B transponders and further types are available.

Standard conformity

Radio authorization	
- Europe	EN 302 208
- USA	FCC 47 CFR Part 15
EMC	EN 301 489
Safety	
- Low voltage	EN 60950
- Human Exposure	EN 50364
Vibration	EN 60068-2-6 10...150 Hz : 0,075 mm / 1g
Shock Resistance	EN 60068-2-27; acceleration: 30g



Technical Data

Compact UHF Mid Range Reader with integrated antennas ID ISC.MRU200i-USB /-E

	ID ISC.MRU200i-USB	ID ISC.MRU200i-E
Housing	ABS plastic housing with lockable hinged cover	
Dimensions (WxHxD)	200 mm x 110 mm x 60 mm (7.87 inch x 4.33 inch x 2.36 inch)	
Weight	650 g	
Protective system	IP54	
Colour	RAL 7035 (similar light grey)	
Power supply	12 - 24 V DC +/- 5%; Noise Ripple: max. 150 mV	
Power consumption	max. 15 VA	
Operating frequency	865,6 - 867,6 MHz (EN 302 208) 902 - 928 MHz (FCC CFR 47 Part 15.247)	
Transmitting power	50...300 mW (adjustable via software) Low Power Mode	
Antennas	integrated Near Field Antenna integrated Far Field Antenna	
Outputs: - 2 Optocoupler - 1 Relay (1x NO/NC)	24 V DC / 30mA 24 V DC / 2 A	
Inputs: - 1 Optocoupler	max. 24 V DC / 20mA	
Interfaces	RS232 and RS485 USB	RS232 LAN (802.3)
Protocol-Modes	FEIG ISO HOST Buffered Read Mode Scan Mode	FEIG ISO HOST Buffered Read Mode Scan Mode
Supported Transponders	EPC class 1 Gen2; ISO18000-6-C (Upgrade Code mandatory)*	
Indicators	4 LED (for diagnosis of the operation status)	
Temperature range - operation - storage	-25°C up to +45°C -25°C up to +85°C	
Relative humidity	5-80% (non condensing)	

* ISO 18000-6-B only on request

©2008 FEIG ELECTRONIC reserves the right to change specification without notice at any time



FEIG ELECTRONIC GmbH

Lange Straße 4, D-35781 Weilburg
Tel.: +49 (0) 6471 / 3109-0, Fax: -99
E-mail: OBID@feig.de, www.feig.de

For more information, visit: www.rfidcanada.com

Email: info@rfidcanada.com

Canada and USA: 1 (877) 476-6760

Outside of North America: +1 905-513-8919 05/08