



Advanced reader technologies

i-scan[®] HF

(13.56 MHz)

Long Range Reader
ID ISC.LR2000-A

Long Range
Reader Unit
ID ISC.LRM2000-A



Multi-tag Long Range Reader for identification of 13.56 MHz transponders in retail, industry and logistics

Features:

- Various antenna conceptions with reading ranges up to 2 meters
- Anti-collision and BRM (Buffered Read Mode)
- Multi-tag Reader (ISO 15693, ISO 18000-3 and EPC HF) Optional further tag protocols are available
- Interfaces: RS232, RS485, Ethernet, WLAN
- Interface compatibility to all OBID i-scan[®] Readers
- OBID i-scan[®] ISO Host Mode
- Also available as Reader unit

Short description

As any device of the OBID *i-scan*[®] HF product family, the Long Range Reader ID ISC.LR2000-A resp. the Long Range Reader unit ID ISC.LRM2000-A identifies transponders with an operating frequency of 13.56 MHz.

Due to the used antennas, the readers have a maximum reading/writing distance of up to 2 meters. So they are suitable outstandingly to be used in fields of application like retail, logistics and industry which call for great reading ranges and anti-collision function.

The reader's anti-collision function facilitates simultaneous identification of up to 100 transponders per second even through packagings.

Beside the housing variant ID ISC.LR2000-A there are two reader units available.

The unit variant ID ISC.LRM2000-A has exactly the same features like the housing variant. The second unit variant ID ISC.LRM2000-B possesses no second digital board and so no BRM function, Ethernet- and WLAN interface.

Technical data ID ISC.LR2000-A

Housing	Plastic (black)
Dimensions (WxHxD)	180 x 320 x 110 mm
Weight	1,9 kg
Protection class	IP 54
Power supply	24 V DC +/- 15%
Power consumption	max. 32 VA
Operating frequency	13.56 MHz
Transmitting power	4-12 W (adjustable via Software in 0.25 W increments)
Modulation	10% - 30% and 100% (adjustable via Software)
Antenna connection	1x SMA connector (50 Ohm)
DC power on RF line	8V DC max. 150 mA
RF Diagnostics	internal SWR-Meter and internal overheating control
Outputs	
- 1 Optocoupler	24V DC / 30 mA
- 1 Differential output	Reader synchronisation
- 1 Relay (NO/NC)	24V DC / 2 A
Inputs	
- 1 Optocoupler	24V DC / 20 mA
- 1 Differential input	Reader synchronisation
Interfaces	RS232 and RS485 Ethernet (TCP/IP) Compact Flash-II (WLAN)
Protocols	FEIG ISO Host and BRM (Data filtering and buffering)
Processable transponders	•CODE1, ISO 15693, ISO 18000-3-A, EPC HF
Signal generator	6 LED's
Temperature range	
- operation	-20°C up to 55°C
- storage	-25°C up to 85°C
Moisture	5-80% (nicht condensing)

Standard conformity

Radio license	
- Europe	EN 300 330
- USA	FCC 47 CFR Part 15
EMC	ETSI EN 301 489
Safety	EN 60950
Vibration	EN 60068-2-6 10 Hz to 150 Hz: 0,075 mm / 1g
Shock	EN 60068-2-27 Acceleration: 30 g

The unit variant **ID ISC.LRM2000-A** has the same features like the housing reader ID ISC.LR2000-A. The second unit variant **ID ISC.LRM2000-B** has no BRM function and is only available with serial interfaces (RS232 and RS485). Both units weight is about 600g with the dimensions 120 x 160 x 45 mm.

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