



Advanced reader technologies

i-scan[®] HF

(13.56 MHz)

Long Range Reader
ID ISC.LR2000-A



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

Features:

- Various antenna configurations with reading ranges up to 2 meters
- Buffered Read Mode, Notification Mode, Scan Mode
- Multi-tag Reader (ISO 15693, ISO 18000-3 and EPC HF)
Optional further tag protocols are available
- Interfaces: RS232, RS485, LAN, 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 identifies transponders with an operating frequency of 13.56 MHz. Due to the used antennas, the reader has a maximum reading/writing distance of up to 2 meters. So it is 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, LAN- and WLAN interface. (Please have a look at the data sheet ID ISC.LRM2000-A/B)

Standard conformity

RF approval - Europe - USA	EN 300 330 FCC 47 CFR Part 15
EMC	EN 301 489
Safety - Low voltage directive - Human exposure	EN 60950 EN 50364
Vibration	EN 60068-2-6 10 Hz to 150 Hz: 0,075 mm / 1g
Shock	EN 60068-2-27 Acceleration: 30 g

Technical data

Housing	Plastic (black)
Dimensions (WxHxD)	180 x 330 x 120 mm (7.09 x 12.99 x 4.72 inch)
Weight	approx. 2,4 kg (5.29 lb)
Protection class	IP 54
Power supply	24 V DC +/- 15% Noise Ripple: max. 150 mV
Power consumption	max. 32 VA
Operating frequency	13.56 MHz
Transmit power	2 W - 12 W (0.25 W steps, Software configurable)
Modulation	10% - 30% and 100% (Software configurable)
Antenna connection	1x SMA jack (50 Ohm)
DC Supply at antenna connector	8V DC max. 150 mA
Diagnostic options	internal VSWR-Meter internal temperature monitoring
Outputs	
- 1 Optocoupler	24V DC / 30 mA
- 1 Differential output	Reader synchronisation
- 1 Relay (1xChangeover)	24V DC / 2 A
Inputs	
- 1 Optocoupler	max. 24V DC / 20 mA
- 1 Differential input	Reader synchronisation
Interfaces	RS232 and RS485 / RS422 LAN (802.3) WLAN (802.11b)
Protocol modes	FEIG ISO Host, Scan Mode, BRM (Data filtering and data buffering), Notification Mode
Supported transponders	- ISO15693, ISO18000-3-A (EM HF ISO chips, Fujitsu HF ISO chips, KSW sensor chips, Infineon my-d, NXP I-Code, STM ISO chips, TI Tag-it) - NXP I-Code 1, I-Code UID, I-Code EPC
Signal generator	6 LED's for operating status diagnostics
Temperature range	
- operating	-20°C to 55°C (-4°F to 131°F)
- storage	-25°C to 85°C (-13°F to 185°F)
Humidity	5-80% (no condensation)

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