



Advanced reader technologies

**i-scan<sup>®</sup> HF**

(13.56 MHz)

Midrange Reader  
ID ISC.MR101-A/  
-USB



ID ISC.MR101-USB

Multi-tag Reader for identification of ISO transponders in fields of application like retail, industry, logistics, libraries etc.

### Features:

- Anti-collision function
- Different antenna types are available
- Multi-tag Reader (ISO 15693- and ISO 18000-3 tags)
- 2 operation modes: FEIG ISO HOST & Scan-Mode

## Short description and technical data

### Short description

Just as any device of the OBID *i-scan*<sup>®</sup> HF product family, the Mid Range Reader ID ISC.MR101-A/-USB identifies transponders with an operating frequency of 13.56 MHz.

Depending on the used antenna, the reader has a maximum reading distance of up to 40 cm.

The elegant Pad Antenna ID ISC.ANT340/240 reaches distances of up to 30 cm and is above all suitable for desk-applications including the identification of files or documents, registration of the lending and return of goods or books etc.

The more rugged antenna type ID ISC.ANT300/300 is mainly used for applications in industrial surroundings.

The reader's anti-collision function facilitates simultaneous identification of several objects even when these are wrapped.



Antennas for ISC.MR101-A/-USB:  
ID ISC.ANT340/240 (left) and  
ID ISC.ANT300/300 (right)

### Technical data

Housing	Plastic ABS
Colour	Papyrus white RAL 9018
Dimensions (WxLxH)	85 x 145 x 31 mm (3.35 x 4.72 x 1.77 inch)
Protection class	IP 30
Weight	200 g (0.44 lb)
Supply voltage	typical 12 V DC max. 12 - 24 V DC +/- 15%
Current draw	max. 0.5 A
Power consumption	max. 8 VA
Operating frequency	13.56 MHz
Transmitting power	1 W +/- 2dB
Antenna connection	SMA plug (50 Ohm)
Reading distance	max. 40 cm with ID ISC.ANT300/300
Interfaces	RS232 / RS485 (configurable) or USB (12 Mbit)
Signal generator	1 LED (multicoloured; red/green)
Protocol modes	ISO HOST Mode, Scan Mode
Supported transponders	- ISO15693, ISO18000-Mode1 (EM HF ISO chips, Fujitsu HF ISO chips, KSW Sensor chips, Infineon my-d, NXP I-Code, STM LRI ISO chips, TI Tag-it)  - NXP I-Code1, I-Code UID, I-Code EPC
Address setting for interface	Software (up to 254 addresses)
- variant -A (RS232/RS485)	
- variant -USB	Devise ID of the reader
Temperature range	
- operation	-25°C to 60°C (-13°F to 140°F)
- storage	-25°C to 70°C (-13°F to 185°F)
Humidity	5 - 95% (non condensing)

### Standard conformity

RF approval	
- Europe	EN 300 330
- USA	FCC 47 CFR Part 15
- Canada	RSS-Gen Issue1 RSS-210 Issue6
EMC	
	EN 301 489
Safety	
- Low voltage	EN 60950
- Human Exposure	EN 50364

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