



## 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
- OBID i-scan<sup>®</sup> ISO Host Mode
- Multi-tag Reader (ISO 15693- and ISO 18000-3 tags)  
Optional further tag protocols are available
- Different antenna types are available
- 2 operation modes: Scan-Mode / Polling-Mode

## 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.

## Technical data

|                            |                                                                  |
|----------------------------|------------------------------------------------------------------|
| Housing                    | Plastic ABS                                                      |
| Colour                     | Papyrus white RAL 9018                                           |
| Dimensions (WxLxH)         | 85 x 145 x 27 mm                                                 |
| Protection class           | IP 30                                                            |
| Weight                     | 200 g                                                            |
| Power supply               |                                                                  |
| - Variant -A (RS232/RS485) | 12 - 24 V DC +/- 15% with external power supply unit             |
| - Variant -USB             | 12 - 24 V DC +/- 15% with external power supply unit             |
| Power consumption          | approx. 8 VA                                                     |
| Operating frequency        | 13.56 MHz                                                        |
| Transmitting power         | 1 W +/- 2dB with external antenna                                |
| Modulation factor          | 10%                                                              |
| Antenna connection         | SMA plug (50 Ohm)                                                |
| Reading distance           | max. 40 cm with ID ISC.ANT300/300                                |
| Interfaces                 | RS232 / RS485 (switchable) or USB                                |
| Signal generator           | 1 LED (multicoloured; red/green)                                 |
| Processable transponders   | ISO 15693, ISO 18000-3, EPC optional: further tag types          |
| Temperature range          |                                                                  |
| - operation                | -25°C up to 60°C                                                 |
| - storage                  | -25°C up to 70°C                                                 |
| FLASH                      | Software may be updated via both, RS232/RS485 and USB interface) |



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

## Standard conformity

|                  |                    |
|------------------|--------------------|
| Radio license    |                    |
| - Europe         | EN 300 330         |
| - USA            | FCC 47 CFR Part 15 |
| EMC              | EN 301 489         |
| Safety           | EN 60950           |
| - Human Exposure | EN 50364           |

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