OBID

Advanced reader technologies

i-*scan*® *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*® 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

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Short description and technical data

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Just as any device of the OBID i-*scan*® *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 - storage	 -25°C up to 60°C -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 - USA	 EN 300 330 FCC 47 CFR Part 15
EMC	EN 301 489
Safety - Human Exposure	EN 60950 EN 50364

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