OBID

Advanced reader technologies

i-*scan*® *HF*

(13.56 MHz)

Mid Range Reader
ID ISC.MR200-A/-E

Multi-tag Mid Range Reader for identification of 13.56 MHz-transponders in fields of application like retail, industry, logistics etc.

Features:

- LAN-interface (version ID ISC.MR200-E)
- Power of up to 1,75 W enables reading distances of up to 70 cm
- Aluminium housing (protection class IP 54)
- Multi-tag-reader (ISO 15693, ISO 18000-3, EPC)
- Anti-collision funktion
- FEIG ISO Host protocol, Buffered Read Mode, Notification Mode and Scan Mode

FEIG ELECTRONIC

Short description and technical data

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The reader ID ISC.MR200-A/-E is offered in an aluminium housing with the protection class IP 54; for this reason it is protected against dust, dirt and syringe water and can be used therefore in the industrial background.

Transmitting power of up to 1,75 watt enables reading ranges of up to 70 cm.

The reader has several i/o´s as well as a so-called antenna diagnosis function that indicates whether an antenna is not adjusted as required.

The reader version ID ISC.MR200-A has the serial interfaces RS232 and RS485 which can be adjusted by the software.

The version ID ISC.MR200-E has a RS232 and a LAN-interface.

Standard conformity

RF approval	
- Europe	EN 300 330
- USA	FCC 47 CFR Part 15
EMC	EN 301 489
Safety	
- Low voltage	EN 60950
- Human Exposure	EN 50364

Technical data

Housing	Die-case aluminium, powder coated, lockable hinged cover
Colour	RAL 7040
Dimensions (LxWxH)	200 x 110 x 60 mm (7.87 x 4.33 x 2.36 inch)
Weight	1.000 g (2.2 lb)
Protection class	IP 54
Supply voltage	12 - 24 V DC +/- 5%
Power consumption	max. 13 VA
Operating frequency	13.56 MHz
Transmitting power	1 W / 1.75 W +/- 1 dB
Degree of modulation	20% +/- 5% absolute
Antenna connection	SMA socket (50 Ohm)
Outputs - 2 optocouplers - 1 relay (1x changeover)	 24 V DC / 30 mA 24 V DC / 2 A
Inputs - 2 optocouplers	 max. 24 V DC / 20 mA
Interfaces - ID ISC.MR200-A - ID ISC.MR200-E	 RS232 and RS485 RS232 and LAN (802.3)
Operation modes	FEIG ISO Host Protocol, Buffered Read Mode (BRM), Notification Mode, Scan 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) - I-Code UID, I-Code EPC (optional)
EEPROM	10.000 write cycles
FLASH	Software update on interface
Address setting for interface	Software (up to 254 adresses) (ID ISC.MR200-A only)
Optical indicators	5 LED´s
Temperature range - operating - storage	 -20°C to 60°C (-4°F to 140°F) -25°C to 85°C (-13°F to 185°F)
Vibration	EN 60068-2-6 10 Hz - 150 Hz: 0,075 mm / 1g
Shock	EN 60068-2-27 acceleration: 30 g

FEIG ELECTRONIC GmbH
Lange Straße 4, D-35781 Weilburg
Tel.: +49 (0) 6471 / 3109-0, Fax: -99
Internet: http://www.feig.de
e-mail: OBID@feig.de