

PANEL READER RFID MC-K

APPLICATIONS

- Automation
- Industry 4.0
- Supply Chain

FEATURES

- RFID Panel Reader with holder for RFID Keyfobs
- USB VCP or RS232 Interface
- IP65 Protection Class
- 5 V Power Supply
- Integrated Antenna

RFID OPTIONS

- HF | NFC (ISO 14443A/B, ISO 15693)
- ISO 18000-3M3/EPC HF Gen2
- HID iClass

PRODUCT DESCRIPTION

The RFID MC-K Reader is designed for integration in switch panels or cabinets.

It has an integrated Antenna and can achieve reading distances of up to 2 centimeters within industrial environments. This device features IP65 protection class.

The device comes with a USB VCP or RS232 interface and a power supply of 5 Vdc.

iDTRONIC's hardware comes with a useful SDK for the development of controller, Linux or Windows based applications. Beside the documentation, command protocols, the SDK includes a Windows based demo application with full functionality over all supported HF RFID standards.

TECHNICAL DATA

ELECTRICAL SPECIFICATIONS

Power Supply	5 Vdc via USB or RS232
Power Consumption	100 mA, standby current < 1 mA (low power mode)
Operating Frequency	HF NFC: 13.56 MHz
Reading Distance	up to 2 cm*
Reader IC	CL 663
RF TX Speed	up to 848 kBd
Antenna	Integrated*
Antenna Baudrate	9600...115200 bit/s, 115.200 bits/s default
Connectors	USB VCP, RS232
Protection Class	IP65
Operating Modes	Cyclic transmission with individual transmission (continuous operation) or manual transmission (on/off)
LED	Status Indication

PHYSICAL SPECIFICATIONS

Dimensions	Panel cut-out: \varnothing 22.3 mm Cable Length: 80 cm (other lengths on request)
Colours	silver-coloured, stainless steel, polished, black
Weight	35 g
Material	ABS

USER ENVIRONMENT

Operating Temperature	-20 °C to +60 °C
Storage Temperature	-20 °C to +70 °C
Humidity	5 % - 95 % RH (Non-condensing)
MTBF	200'000 h

*Reading distance depends on tag, antenna and environmental conditions

SUPPORTED STANDARDS | TAGS

ISO 14443 A and compatible	Read/Write: MIFARE® Classic Mini / 1K /4K, MIFARE Ultralight®, MIFARE Ultralight® C, MIFARE® DESFire® EV1, MIFARE® Smart MX, MIFARE® Plus S / X, MIFARE® Pro X, NTAG 21x
ISO 14443 B and compatible	Read UID only: Read UID only of all other ISO14443A RFID tags
ISO 15693 and compatible	SRI4K, SR1X4K, AT88RF020, 66CL160S, SR176
ISO 18000-3M3/EPC HF Gen2	EM4135, EM4043, EM4x33, EM4x35, I-Code SLI / SLIX, M24LR16/64, TI Tag-it HF-I, SRF55Vxx (my-d vicinity)
HID iClass	I-Code ILT-M
	Read UID

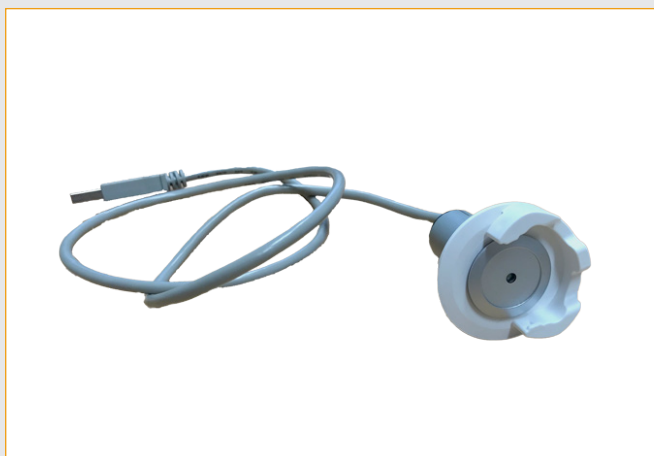
APPLICABLE STANDARDS

EMC	EN 301489-1:2012-04 (v1.9.21) EN 301489-3:2013-12 (V1.6.1)
Radio Regulation	EN 300330-1:2015-08 (V1.8.1) EN 300330-2:2015-08 (V1.6.1)
Safety	EN 60950-1:2014-08 EN 62369-1:2010-03 EN 50364:2010-11
RoHS	EC Guideline 2011/65/EU and amendment 2015/863 EN 50581:2012 (valid till 2024-07-07) EN 63000:2018
REACH	EU Guideline 1907/2006, updated by 2018/2005/EU

SDK INFORMATION

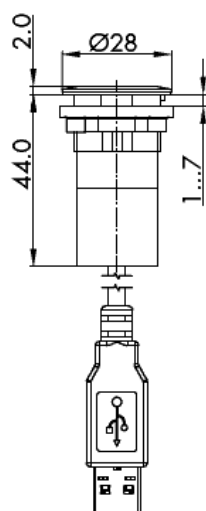
Supported OS by Silabs USB VCP Driver	Windows 7/8/8.1/10 (v6.7.3) Windows XP/Server 2003/Vista/7/8/8.1 (v6.7) Windows 2K (v6.3a) WinCE (5.0, 6.0) Macintosh OSX (v4) Linux (3.x.x., 2.6.x) Android 4.2
Supported Languages	Binary ASCII command protocol, VS2005 C++Library
Demo Software	Windows

PRODUCT PICTURES

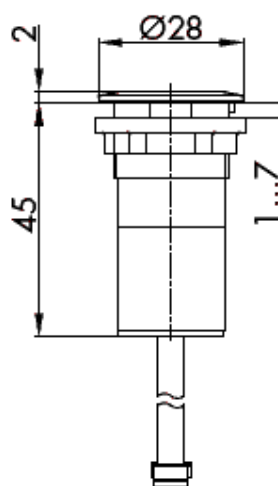


MECHANICAL VIEW

USB VCP



RS232



ORDER CODES

VERSIONS	ORDER CODES
MC-K Reader USB	R-IN-DES-PAN-USB
MC-K Reader RS232	R-IN-DES-PAN-RS232

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