Motor Encoder

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The new motorized Proximity Card Feeder was developed for secure transactions on proximity chip cards such as Mifare®.

Due to a clear defined stop position of the card below the antenna, all transactions are performed without any errors.

The feeder is controlled by a microprocessor, which takes advantage of three micro switches to detect the card position and movement. Once a card is inserted into the front, the microcontroller moves the card to the antenna position.

To interface the chip, a standard serial port (RS.232) is available. If a non proximity card is used, the controller will eject the card at the front after a timeout. If reading or writing is finished, the card can be moved either to the front or it can be swallowed (output at the back). If a card is inside the reader and the user tries to insert a second card, the microcontroller rejects both cards at the front. The movement of the card is controlled via an I2C Bus or with digital signals.

All movement controls as well as the status signals of the switches a supplied via the 8 Bit digital I/O port.

Upon request, the serial interface to the reader can be used to control the card movement.

The frame is made of stainless steel to ensure a durable operation even in harsh environments. All rubber parts a made of a long life and durable material.

The motor encoder is operated by a single voltage.

Features:

- stainless steel frame
- durable rubber rollers
- long life motor with planet gearing
- Single Voltage Operation
- standard RS.232 communication port to Mifare® readermovement control by I2C Bus or digital I/O

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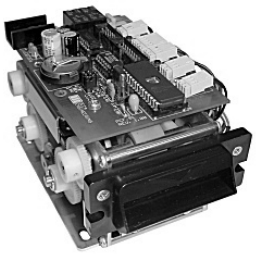
Technical Specifications

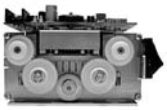


Supported Transponders	ISO 15693	I.CODE.SL2 Tag-it HFI ™ my-d vicinity STM LRI512
	ISO 14443 A und B	MIFARE® Standard MIFARE® Ultra Light my-d proximity STM SR176
	Philips Semiconductors	I.CODE.SL1
Security Features	MIFARE	integrated
	my-d	optional

Antenna	Integrated	Onboard
Reading Distance	ISO 15693-Transponder	90 mm
	ISO 14443-Transponder	40 mm
Operating Frequency	13,56 MHz	

RF-Transmission Power	250 mW	
Host Interface	Reader Data	RS.232
	Motor Unit	I2C Bus
		Digital I/O

User Interface	2 Switches	Feed IN/OUT
Memory Reader	EEPROM	1 kB (10.000 WriteCycles)
	FLASH	64 kB



Environment	Temperature	Operating	+0° - +70° C
		Storage	-40° - +85° C
	Humidity	Operating	20% - 80% non condensing
		Storage	20% - 90% non condensing
	Dimensions		100mm x 85mm x 140mm (W x H x D)
	Weight		850 gr
Power	Operating Voltage		12 V DC +5%/-1%
	Operating Current		950 mA max.
Standards	RF	Europe	EN 300 330
		USA	FCC 47 CFR Part 15
	EMV	Europe	EN 301 489
	Security	Europe	EN 60950

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