RS-H3-06 BZ

RFID reader | 125 kHz | Unique

_____

Product Card

DREXIA Tomasz Wojtasik
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Before use…

Please do not open the reader and do not make any changes. This results in loss of warranty.

In case of any questions please contact with us. We certainly answer to all questions and solve possible problems.

Please carefully read the following information before connecting the reader.

Please keep in mind, that there are factors as metal surfaces, which can affect on radio communication and correct reader operation. It is advisable to consult the mounting conditions before use with our staff.

Please contact with us before sending damaged products.

We offer possibility to change cable length and terminate it with a plug. Before make an order please contact with us to determine the details.

DREXIA Tomasz Wojtasik
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biuro@drexia.pl   **RS-H3-06 BZ – Product Card**   **18-12-2018**

The RFID reader **RS-H3-06 BZ** reads identification data wireless of passive transponders (cards, tags, etc.) compatible with UNIQUE standard. The built-in two-color LED and Buzzer for any use. The red LED cannot be used to indicate failure or danger.

LEDs are powered by internal voltage regulator via built-in resistors. The light is on when the appropriate LED is connected to the minus of power supply.

BUZZER is activated when appropriate BUZZER output is connected to the minus of power supply.

Grey	–	power supply (-)
Yellow	–	power supply (+)
Green	–	green LED
Brown	–	red LED
White	–	TX
Pink	–	Buzzer

The reader should be connected according to the scheme "A".

SCHEME A
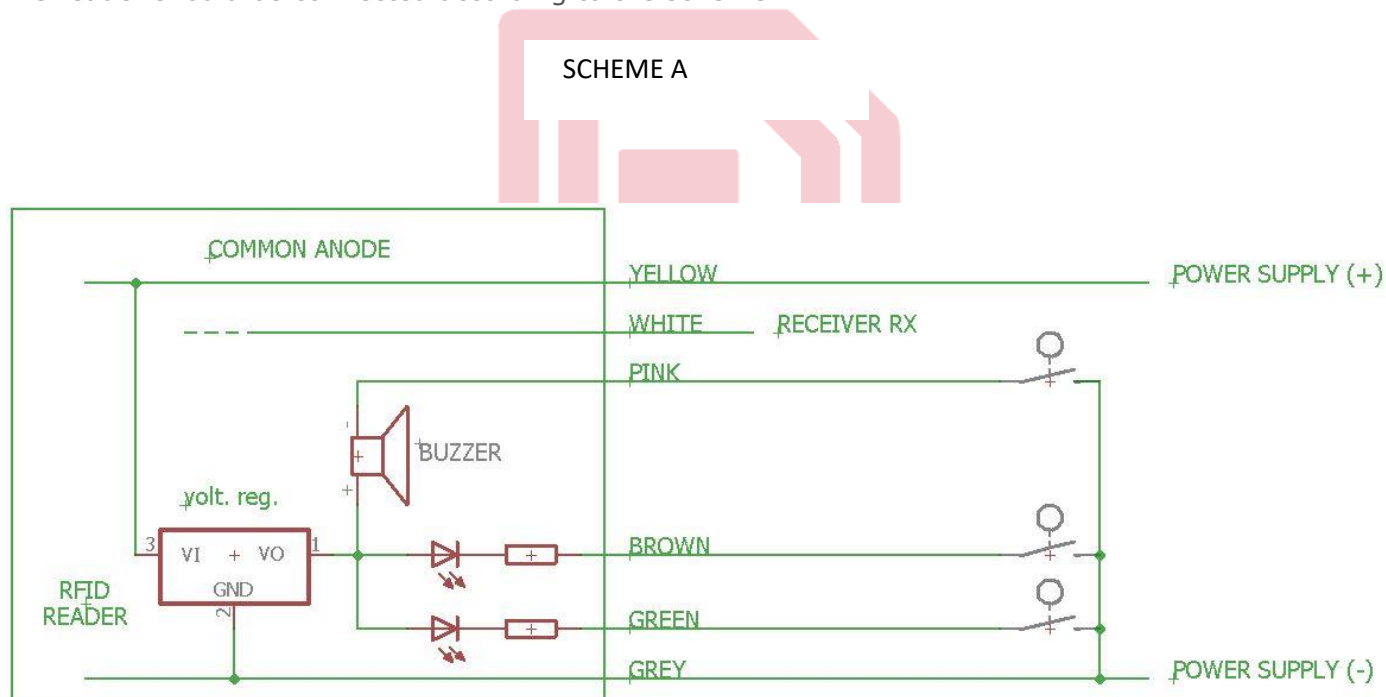
The read data (manufacturer code and serial number) after the correct parity bit check is sent as a 14-byte ASCII string via the RS-232 TTL open collector interface.

START	manufacturer code ID		serial number SN		checksum CRC		STOP
0x0A	2 ASCII signs		8 ASCII signs		2 ASCII signs		0x0D
	MSB	LSB	MSB	LSB	MSB	LSB	

Byte START and byte STOP help us identify the string we are receiving. Checksum is calculated as the XOR function of data read from the transponder.
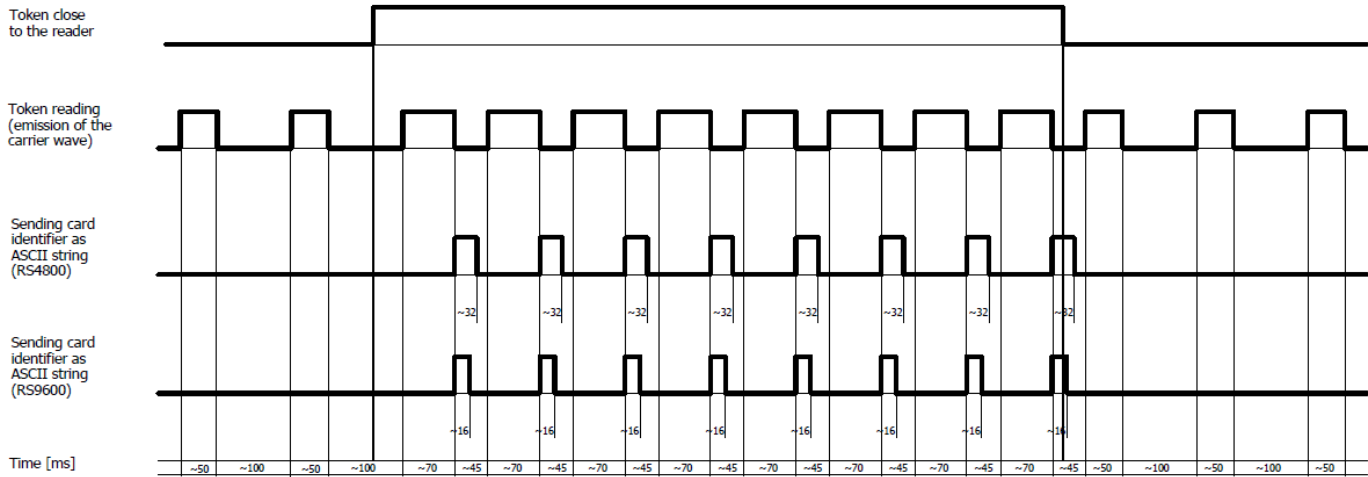
For example:

For code card ID = 54h i SN = 0025E588h

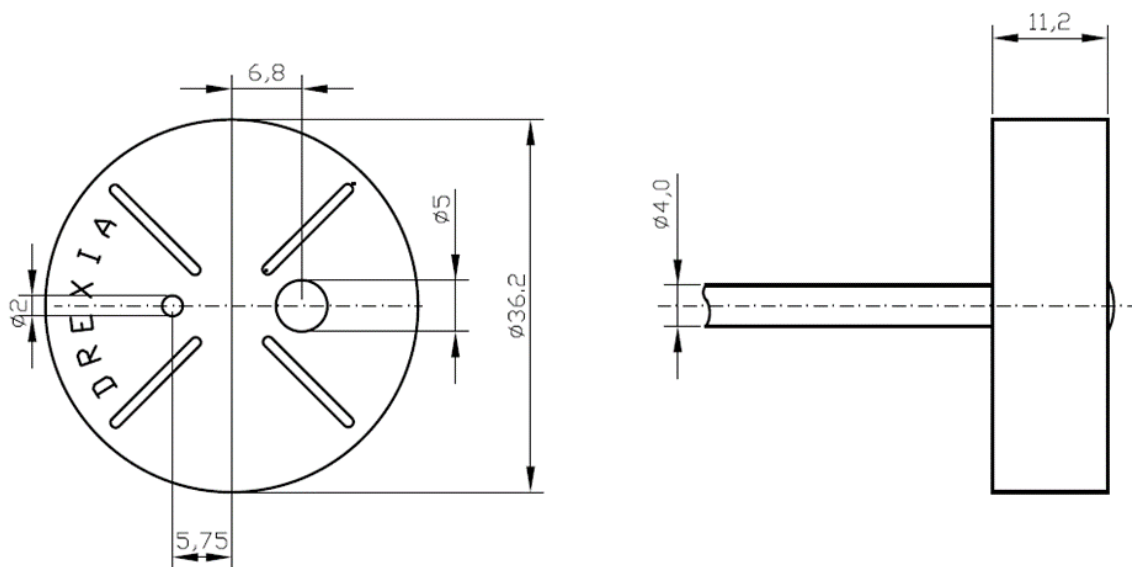CRC = (54h) XOR (00h) XOR (25h) XOR (E5h) XOR (88H) = 1Ch

The following string will be output:

0x0A, 0x35, 0x34, 0x30, 0x30, 0x32, 0x35, 0x45, 0x35, 0x38, 0x38, 0x31, 0x43, 0x0D

1. The reader is waiting for the proximity of the token (card) trying to read it at a frequency of about 6 times per second (~ 50 ms [checking the presence of the card] + ~ 100 ms [gap between successive checks]).

2. After the token is approached, its identifier is read (~ 70 ms) and it is sent as ASCII character strings, in subsequent sequences (~ 45 ms).

3. After dismiss the token, the reader returns to the original reading about 6 times per second, waiting for the token to be re-approached.

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Technical Data

Power supply	9,5-24V DC
Nominal power supply voltage	12 V DC
Peak current	160 mA
Receiver current	12 mA (without LED)
Green LED current	10 mA
Red LED current	10 mA
Buzzer current	50 mA
Frequency	125 kHz
Type of transponder	Manchester, 64 cycles per bit
Surface of the antenna	8,6 cm^2
Reading range	~4 cm
Frequency range of the reader	119-140 kHz
Nominal frequency of the reader	125 kHz
Reading frequency	6/s for identification 2/s when transponder is in range of the reader
RS232	TTL – open collector, active state 0, 4800 bps, 8 bits, without parity and 1 stop bit (8N1). Possibility of ordering 9600bps version.
Mounting method	tape, glue, etc.
Cable length	0,4 m
The maximum length of power and signal connections	2 m
Reader temperature	-20º C +55º C
ROHS	YES

The device cannot be powered from the DC network. It must be connected to the power supply via a 1A short-circuit protection.

The device marking is located on the bottom of the housing.

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