1W-H3J-05

RFID reader | 125 kHz |

JABLOTRON

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Product Card

DREXIA Tomasz Wojtasik
Regatowa 19a
93-482 Lodz, Poland
www.drexia.pl
biuro@drexia.pl

1W-H3J-05 – Product Card

24-07-2018

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.

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biuro@drexia.pl   **1W-H3J-05 – Product Card**   **24-07-2018**
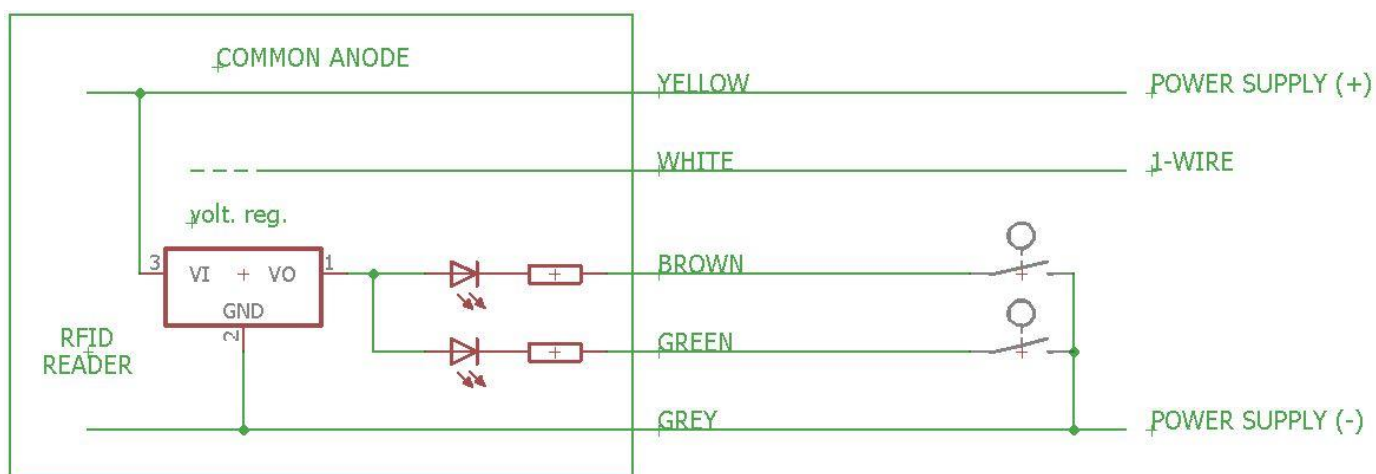
General information

The RFID reader **1W-H3J-05** reads identification data wireless of passive transponders (cards, tags, etc.) compatible with standard JABLOTRON JA-192J. The built-in two-color LED for any use.

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.
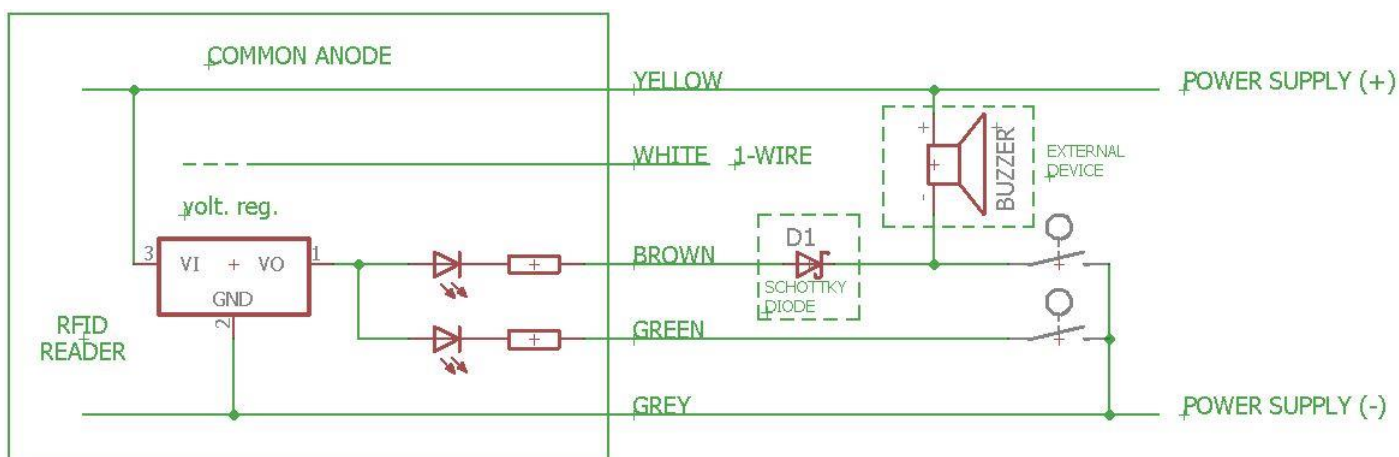
The reader should be connected according to the scheme "A". In case of necessity of simultaneous control of LED and other devices (e.g. Buzzer) connect the reader according to the scheme "B":

Grey – power supply (-)
Yellow – power supply (+)
Green – green LED
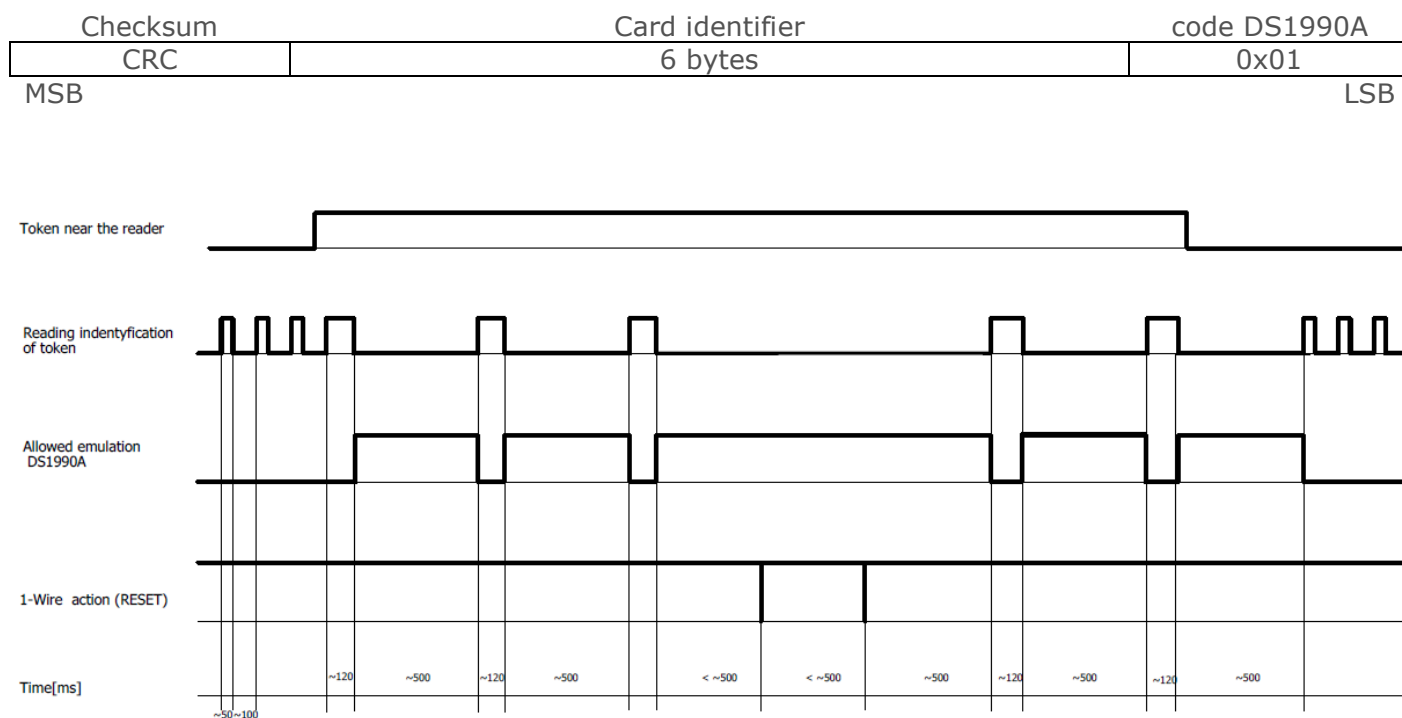**Brown** – red LED
White – 1-Wire

SCHEME A

SCHEME B

DS1990A emulation

After successful reading of the card identifier, collected data (manufacturer code and serial number) are sent via 1-Wire interface, emulating the MAXIM DS1990A.

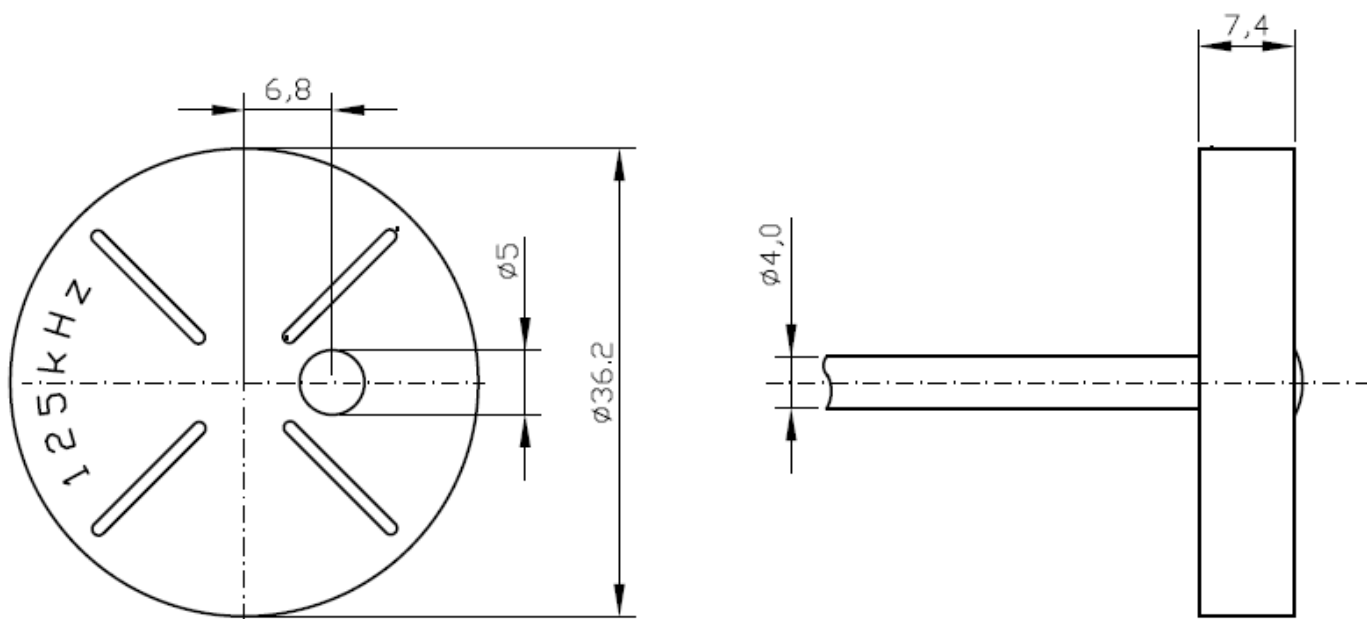| Checksum	Card identifier	code DS1990A
CRC	6 bytes	0x01
MSB		LSB

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 (~ 120 ms) and it is stored for a period of ~ 500 ms during which it is possible to emulate the read number as the MAXIM iButton DS1990A.

3. If during this ~ 500 ms on the 1-wire bus no RESET pulse initiating the transmission appears, the identifier is forgotten and the reading is repeated. Otherwise, the time of remember the identifier will be extended for another 500 ms from the moment of the RESET pulse.

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Power supply	6,5-30 V DC
Nominal power supply voltage	12 V DC
Power supply efficiency	1 A
Peak current	75 mA
Receiver current	25mA (without LED)
Green LED current	10mA
Red LED current	10 mA
Frequency	125 kHz
Type of transponder	JABLOTRON compatible with JA-192J
Surface of the antenna	6,8 cm^2
Reading range	~6cm
Reading frequency	6/s for identification 2/s when transporder is in range of the reader
Supported 1-Wire commands	0x33 (0x0F) - Read ROM 0xF0 - Search ROM
Mounting method	glue
Cable length	0,4 m
Reader temperature	-20º C +55º C
ROHS	YES

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