1W-H0-06P BZ

RFID reader | 13.56 MHz | Mifare

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Product Card

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1W-H0-06 BZ – Product Card

08-05-2018

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 input voltage range, cable length and terminate it with a plug. Before make an order please contact with us to determine the details.
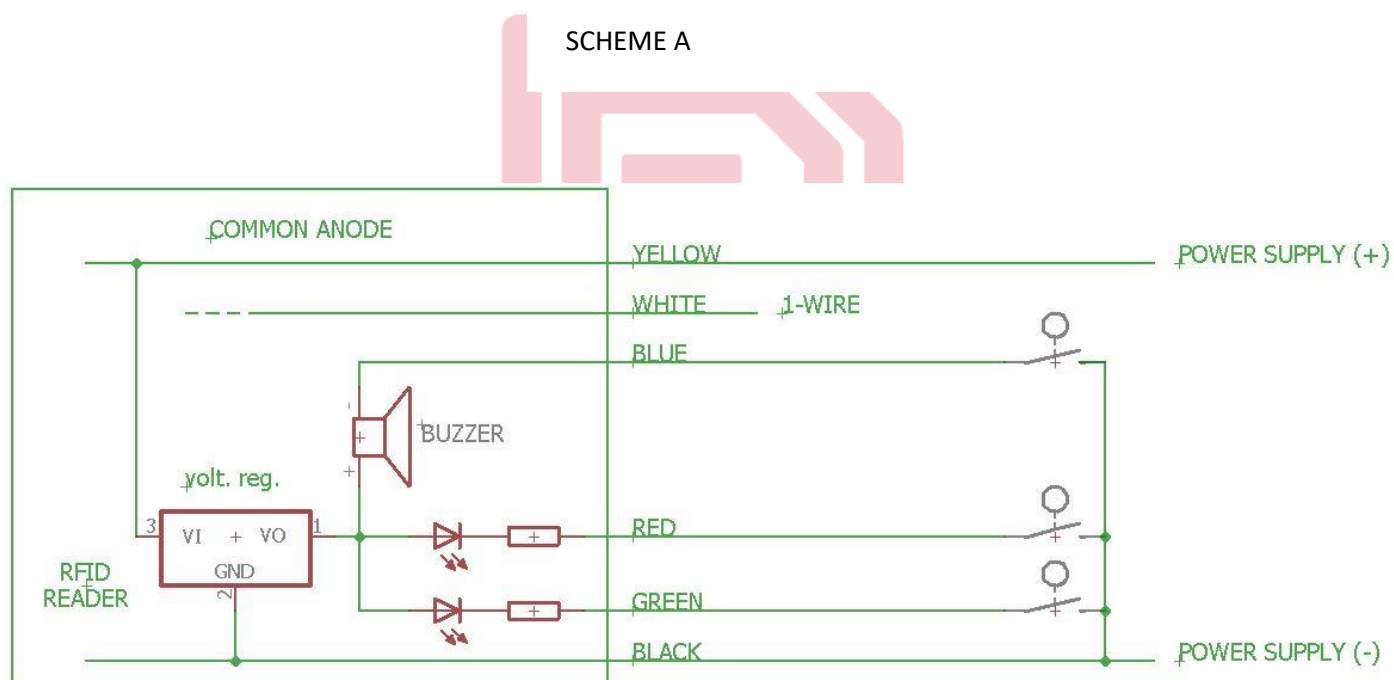
The RFID reader **1W-H0-06P BZ** reads identification data (UID) wireless of passive transponders (cards, tags, etc.) compatible with ISO/IEC14443-3-A (e.g. MIFARE cards). The built-in two-color LED and Buzzer for any use.

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.

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

Black	–	power supply (-)
Yellow	–	power supply (+)
Green	–	green LED
Red	–	red LED
White	–	1-Wire
Blue	–	Buzzer

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

SCHEME A

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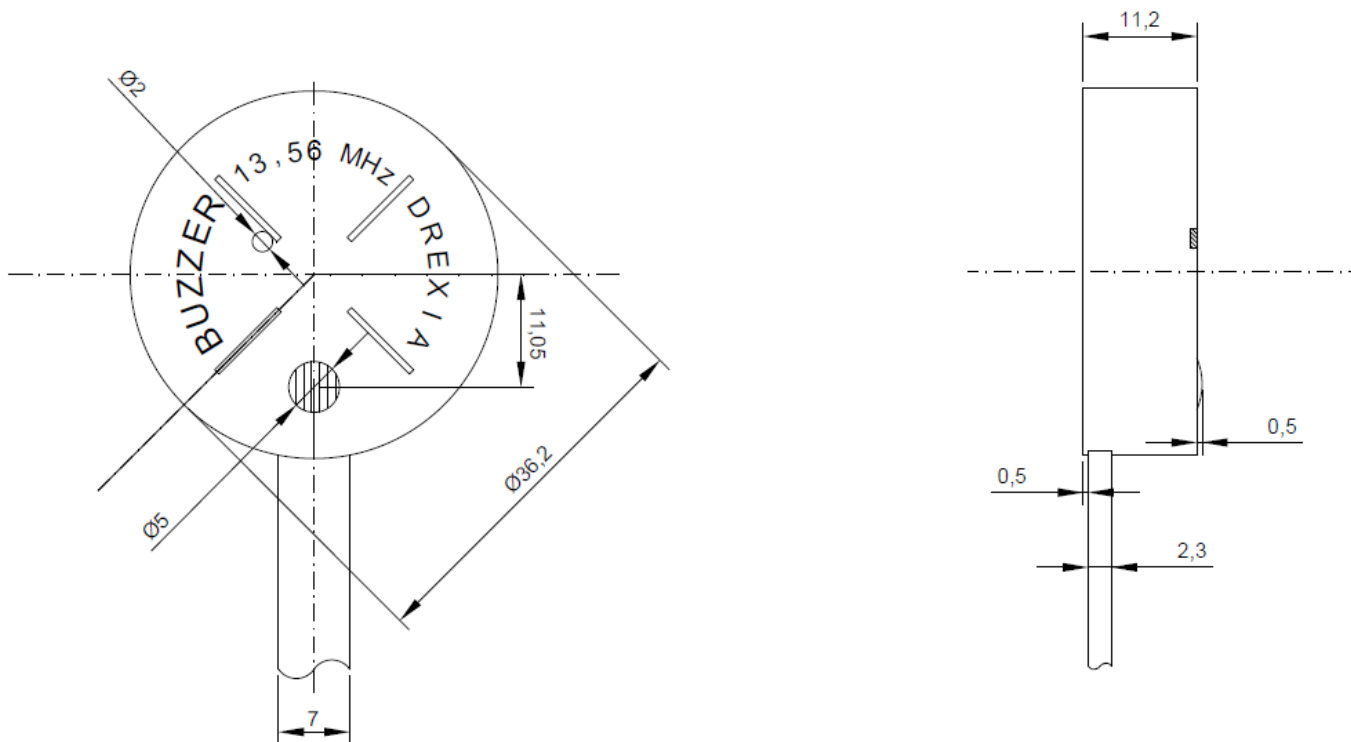
The read data are sent via 1-Wire interface, emulating the MAXIM DS1990A. For transponder UIDs of 4 bytes long, the oldest 2 bytes UIDs [4] and UID [5] are sent as 0x00 (zero) while, UIDs of 7 or 10 bytes are sent with 6 least significant UID bytes.

checksum	UID			code DS1990A
CRC	UID[5]	...	UID[0]	0x01

MSB   LSB
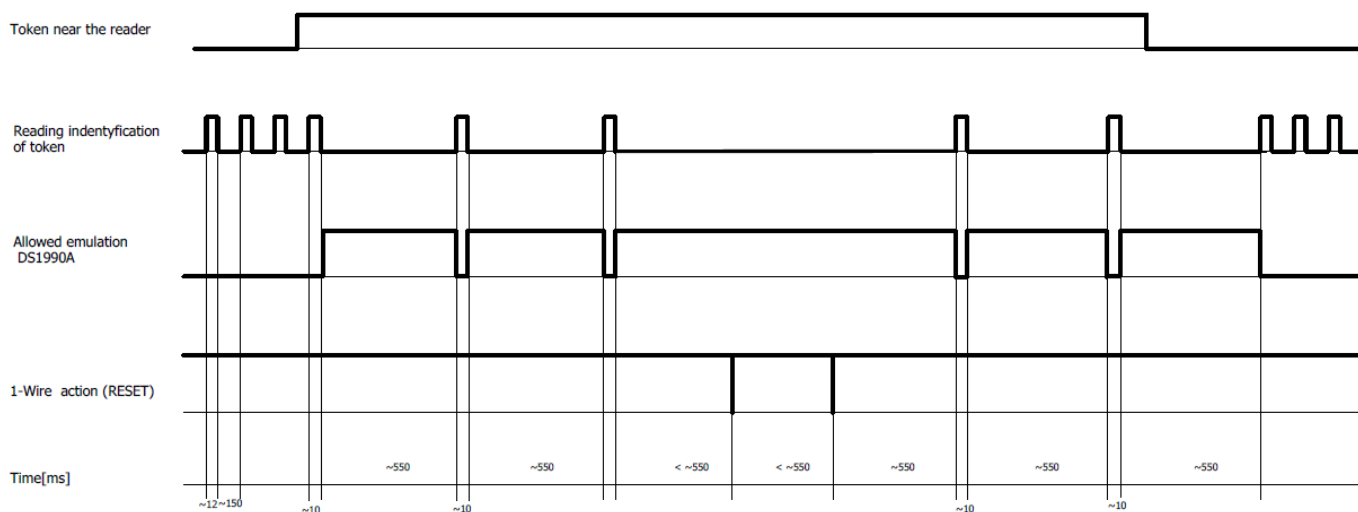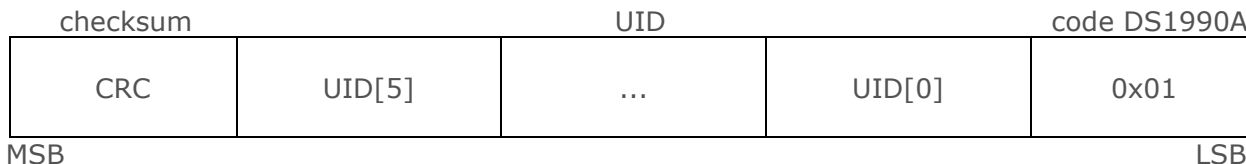
1. The reader is waiting for the proximity of the token (card) trying to read it at a frequency of about 6 times per second. (~ 12 ms [checking the presence of the card] + ~ 150 ms [gap between successive checks]).

2. After the token is approached, its identifier is read (~ 10 ms) and it is stored for a period of ~ 550 ms during which it is possible to emulate the read number as the MAXIM iButton DS1990A.

3. If during this ~ 550 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 550 ms from the moment of the RESET pulse.

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Power supply	6,5-30 V DC (5-15V DC to order)
Nominal power supply voltage	12 V DC
Power supply efficiency	1 A
Peak current	160 mA
Average receiver current	15 mA (without LED)
Peak receiver current	45 mA
Green LED current	7 mA
Red LED current	7 mA
Buzzer current	50 mA
Frequency	13,56 MHz
Type of transponder	ISO/IEC14443-3-A
Surface of the antenna	8,6 cm^2
Reading range	~4cm
Reading frequency	6/s for identification 2/s when transponder is in range of the reader
Supported 1-Wire commands	0x33 (0x0F) - Read ROM 0xF0 - Search ROM
Mounting method	tape, glue, etc.
Cable length	0,4 m (flat cable)
Reader temperature	-20º C +55º C
ROHS	YES