



1W-H0-06 BZ M12 MS

RFID reader | 13.56 MHz | Multi System

FCC ID: 2BEXQ1WH006BZM12MS1

Made in Poland

Product Card



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1W-H0-06 BZ M12 MS – Product Card

06-02-2024

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 making an order, please contact with us to determine the details.

General information

The RFID reader **1W-H0-06 BZ M12 MS** reads identification data (UID) wireless of passive transponders (cards, tags, etc.) compatible with ISO/IEC14443-3-A (e.g. MIFARE cards), ISO/IEC14443-3-B, ISO 15659, Felica, iClass, ISO 18092.

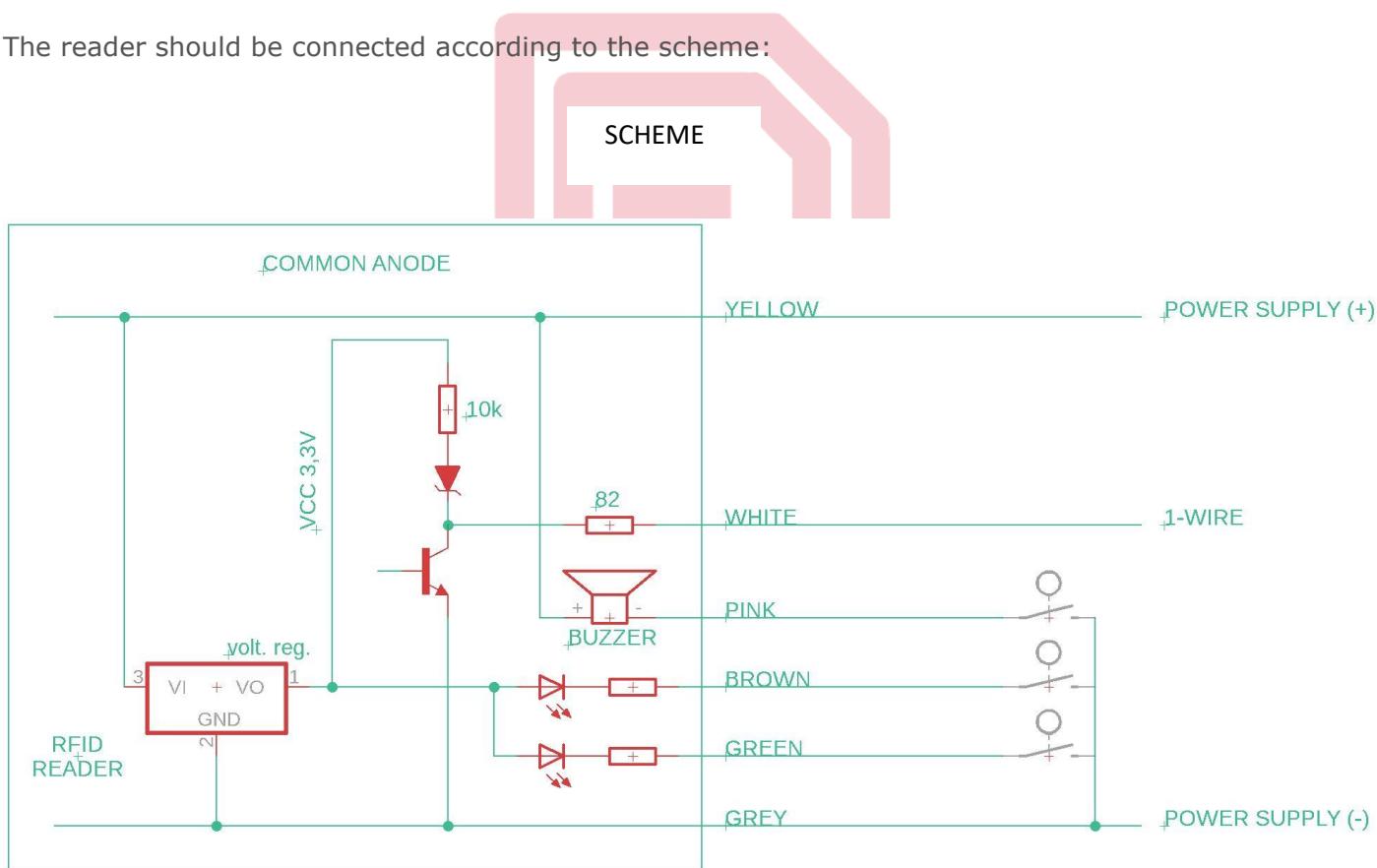
The built-in two-color LED and Buzzer for any use.

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.

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

The reader should be connected according to the scheme:



DS1990A emulation

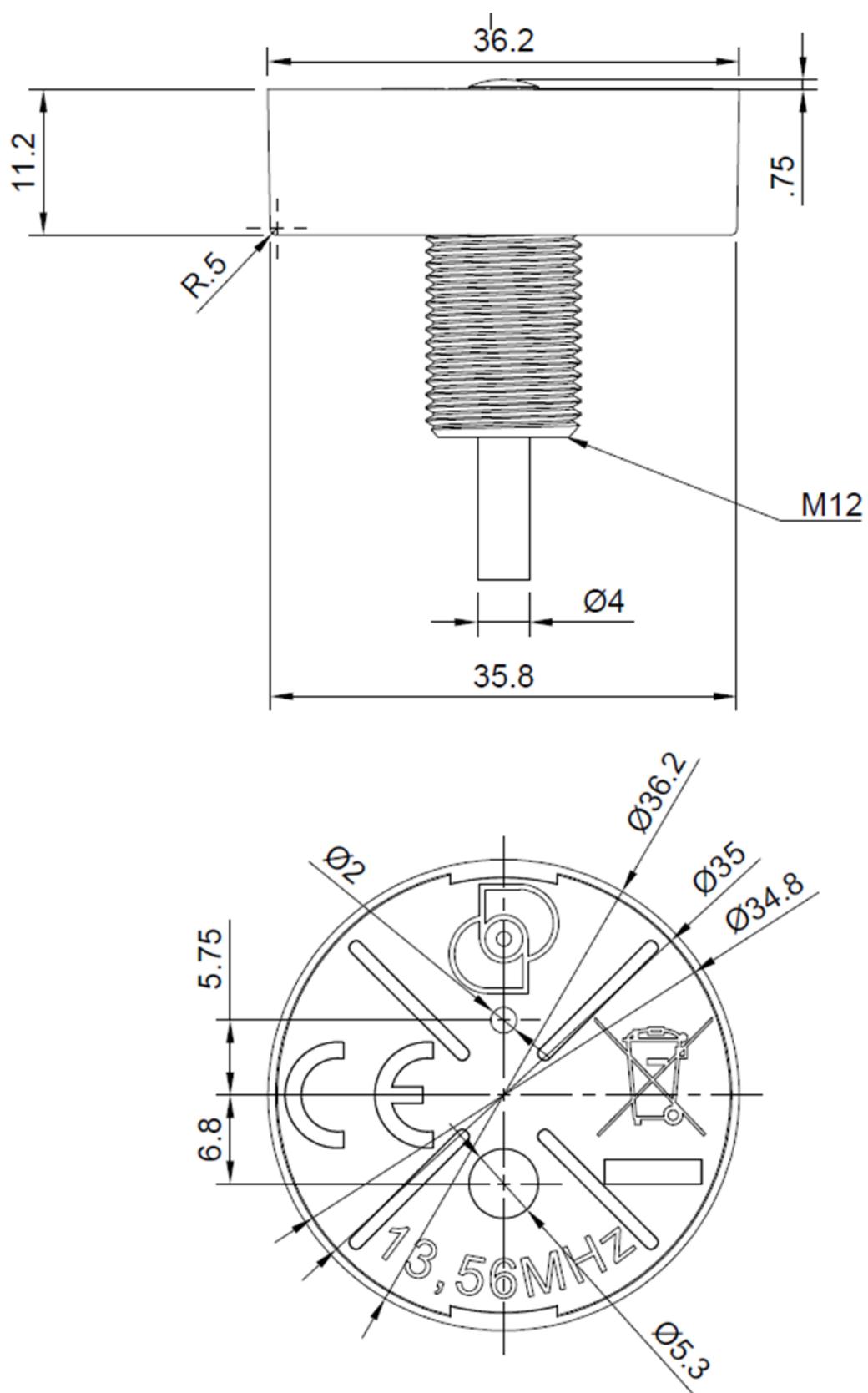
The reader sends the read UID data of the token via the 1-Wire interface, emulating the DS1990A identifier from Maxim (Dallas). In the DS1990A chip from Maxim (Dallas), 6 bytes of UID are allocated for the identifier. Therefore, for tokens with a UID longer than 6 bytes, the 6 least significant bytes of the UID are sent. In the case of tokens with a UID shorter than 6 bytes, the missing (most significant) bytes of the identifier are filled with zeros.

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

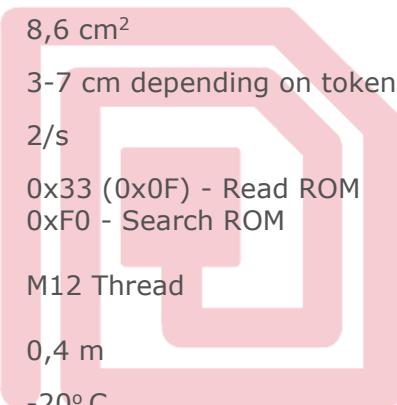
To read the UID of the token, bring the token closer to the RFID reader. Token UID readings are performed cyclically every 500 ms. After correct reading of the identifier, the DS1990A system from Maxim (Dallas) is emulated through the 1-Wire interface.



External dimensions



Power supply	12 V DC (8-16 VDC) and 24V DC (20-30 VDC)
Power supply efficiency	1 A
Peak current	150 mA
Average receiver current	30 mA (without LED)
Peak receiver current	50 mA
Green LED current	6 mA
Red LED current	6 mA
Buzzer current	35 mA
Peak Buzzer current	70 mA
Frequency	13,56 MHz
Type of transponder	ISO/IEC14443-3-A, ISO/IEC14443-3-B, ISO 15693, Felica, iClass, ISO 18092
Surface of the antenna	8,6 cm ²
Reading range	3-7 cm depending on token
Reading frequency	2/s
Supported 1-Wire commands	0x33 (0x0F) - Read ROM 0xF0 - Search ROM
Mounting method	M12 Thread
Cable length	0,4 m
Reader temperature	-20° C +55° C
ROHS	YES



FCC Radio Product Manual

FCC Information

This device complies with Part 15 of the FCC Results. Operation is subject to the following two conditions:

(1) This Device may not cause harmful interface, and

(2) This Device must accept any interference received, including interference that may cause undesired operation.

Note : This equipment has been tested and found to comply with the limits for CLASS B digital device, pursuant to Part 15 FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try correct the interference by one or more of the following measures ;

1.1. Reorient or relocate the receiving antenna.

1.2. Increase the separation between the equipment and receiver.

1.3. Connect the equipment into an outlet on a circuit different from that to which receiver is connected.

1.4. Consult the dealer or experienced radio/TV technician for help.

WARNING

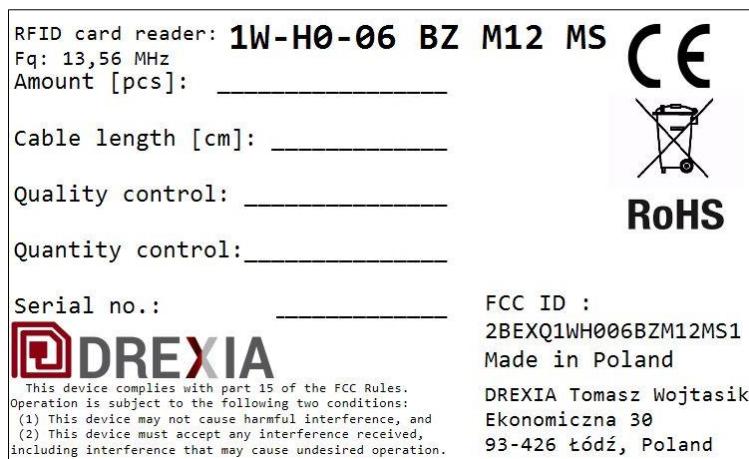
Changes or modifications not expressly approved by the manufacturer could void the user's authority to operate the equipment.

CAUTION : Exposure to Radio Frequency Radiation.(If not subject to measurement SAR)

To comply with FCC's RF exposure limits for general population / uncontrolled exposure, the antenna(s) used for this transmitter must be installed to provide a separation distance of at least 20cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter.

LABEL

The following label was attached to collective packaging for many pieces of RFID readers:



The following label was attached to product:



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