Reader **1W-H0-05 M12** is a reader dedicated for contactless read-out of identification data (UID) from transponders (cards, keyrings, etc.) compatible with ISO/IEC14443-3-A (for example MIFARE CARDS) . The device has a built-in bicolour LED for multipurpose adaptation.

The read-out UID data are sent through 1-wire bus, emulating Maxim (Dallas) 1990A iButton. In case of transponders with UID longer than 4 bytes, the oldest 2 bytes UID[4] and UID[5] are sent as 0x00 (zero). Whereas for UID with length of 7 or 10 bytes are truncated to the 6 least significant UID bytes.

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

The bicolour LED diode is powered by inner stabilizer through a build-in resistors. The diode starts to shine after connecting a proper cathode wire to the ground of a power supply.

Technical data:

1.	Supply voltages	5V-16V DC
2.	Average reciver current	15mA (without LED)
3.	Maximum reciver current	45mA (without LED)
4.	Green LED current	7mA
5.	Red LED current	7mA
6.	Frequency	13.56 MHz
7.	Transponder type	ISO/IEC14443-3-A
8.	Reading distance	~ 4cm
9.	Read-out frequency of a transponder	6/s for identification 2/s if transponder remains within the reading range.

10. Colour scheme:

- yellow power supply (+)
- gray power supply (-)
- white 1-Wire
- green cathode LED green
- brown cathode LED red