

# EM9926 READER

## INTRODUCTION

EM9926 is a GK4001-Reader unit that reads code from Goldkey GK4001(ready only) and H4100 H4102 tags, which is a major component in a RFID (Radio Frequency Identification) Reader system.

It can be used and deployed in application such as office/home security, personal identification, animal transponder, anti-forgery, interactive toy, manufacturing and other control systems.

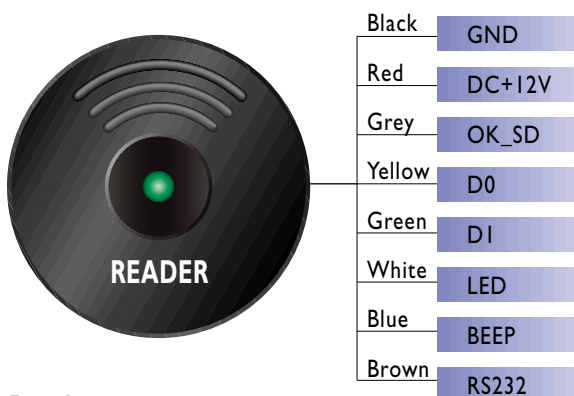
EM9926 Reader is a contactless card reader, based on matured RFID technology, which reads RFID transponder without making contacts (in the proximity) .

Each RFID transponder is embedded with a unique code during manufacturing process.

This code is the identification of each card.

## UNIT

This reader is comprised of a PCB containing RF circuits, an 8-bit microcontroller and data output connections. Its main functions are driving the antenna, sending demodulated data to microcontroller, checking the input data code and process the output data format.



## Purple

A 18 Pin microcontroller is used to convert input pulse signals to Manchester code, check the input data code and process the output data format.

## Data Connection of Reader

Number	Color	Name	Description
1	BLACK	GND	GND
2	RED	DC+12V	DC+12V POWER
3	GREY	OK_SD	INDICATION LINE FOR WIEGAND 26
4	YELLOW	D0	WEIGAND 26 DATA0
5	GREEN	D1	WEIGAD 26 DATA1
6	WHITE	LED	LED Control line, the green light is on while LED pulled low
7	BLUE	BEEP	Buzzer Control line, the buzzer beep while BEEP pulled low
8	BROWN	RS232	RS232 Data TXD

## FEATURES

- Read RFID transponders, such as contactless chip cards and tags
- RS-232 interface & weigand 26 Format
- Read cards and tags contactlessly
- LED indicator to show operation status
- Audible beeper to show reading status.

## SPECIFICATIONS

- Power requirement: DC12V, 200mA
- Reading range:12-15CM
- Reading speed:less than 70mS
- Frequency: 125KHz carrier frequency
- Operating Temperature: 0 to 55 Deg.C
- Storage Temperature: -25 to 65 Deg.C
- Humidity:5-95%RH

## AVAILABLE VERSION

- RS-232 interface, 9600 baud, n, 8,1 & weigand 26 Format.

## DIMENSION

Two levels  
78.08mm X 78.08mm  
(not including connected pin)



## APPLICATIONS

- Access controls
- Personal identification
- Parking systems
- POS systems
- Security systems
- Access systems