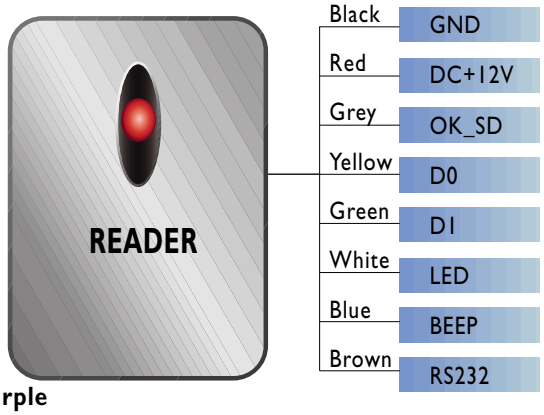
EM9916 READER

INTRODUCTION

EM9916 is a GK4001-Reader unit that can read codes from Goldkey GK4001(ready only) and H4100 H4102 GK4011(read/write) tags which is a major component of RFID (Radio Frequency Identification) Reader system.
It can be deploued in applications such as office/home security, personal identification, animal transponder, anti-forgery, interactive toy, manufacturing and control systems.
EM9916 Reader is a contactless card reader, based on matured RFID technology, that allows it to read RFID transponder without making contacts (in the proximity) .
Each RFID transponder is manufactured with a unique code during the manufacturing process.
This code is the identification of each card.

UNIT

This reader comes with 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 processing the output data format.



A 18 Pin microcontroller is used to convert input pulse signals to Manchester code, check input data code and process 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 then 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
104.62mm X 65.80mm
(not including connected pin)

APPLICATIONS

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