



ISRF-EMS1 RFID Proximity Card Reader



INTRODUCTION

ISRF-EMS1 RFID EM Proximity Card Reader utilizes 125Khz RFID technology to read ASK modulation contactless proximity cards. Contactless proximity cards are used for many different applications, such as access control, vending, toll roads, airline ticketing, banking cards, city cards, id cards, university cards, loyalty schemes, phone cards, parking & elevator control.



ISRF-EMS1

SPECIFICATIONS

Power Requirements

DC7-12V at 100mA. A linear regulator is recommended.

Interface

Standard wiegand 26 bits for connection to standard access control panels.
RS-232 interface -> baud rate : 9600, data bits : 8, stop bit : 1, parity : N for connection to PC's or dedicated microcontrollers.

Read Range

Read range for up to 10cm with ASK modulation contactless proximity card.

Response Time

Less than 0.1 second.

RF Frequency

125Khz standard.

Audio/visual Indication

Red, Green, LED and beeper indication.

Operating Temperature

-22° to 150° F (-30° to 65° C).

Operating Humidity

0-95% relative humidity non-condensing.

Dimensions

85 mm x 85 mm x 20 mm

Cable Distance

Wiegand interface: 500 feet (150 m)

RS232 interface: 50 feet (15 m)

Recommended cable is ALPHA 1295 (22 AWG) 5 conductor minimum stranded with overall shield or equivalent. Additional conductors may be required for LED or beeper control.

Wire Color		
1	6-12VDC	RED
2	GND	BLACK
3	BUZZER	YELLOW
4	GREEN LED	ORANGE
5	D1	WHITE
6	D0	GREEN
7	HOLD	BLUE
8	RX	-
9	GND	GREY
10	TX	BROWN
	RS232	9600,8,1,N