

## MD-12W/MD-12C OEM Proximity Reader



### GENERAL DESCRIPTION

Rosslare's MD-12W /MD-12C OEM proximity readers have been designed to easily integrate within existing products such as intercoms, time recording terminals and biometric devices.

The reader module requires no additional components as it incorporates a built-in antenna. It can be mounted directly onto a printed circuit board with both the Wiegand (MD-12W) and Clock and Data (MD-12C) variants utilising the same PIN outs.

The module is also epoxy potted making it vandal resistant and suitable for internal or external applications.

### FEATURES

- Typical Read Range Up to: 5cm
- Built-in antenna
- Wiegand 26 bit Output (MD-12W)
- Clock and Data Output (MD-12C)
- Smallest size available on the market
- Epoxy potted to seal out moisture
- 5V DC operation from controller
- Mounts directly to Printed Circuit Board with standard PIN Out
- Advanced ASK Technology
- CE, UL and FCC approved



Reader Options Ltd  
Unit D2, Spectrum Business Centre, Anthony's Way,  
Medway City Industrial Estate, Rochester, Kent, ME2 4NP.  
Tel 01634 711713 Fax 01634 715017  
Email [sales@readeroptions.com](mailto:sales@readeroptions.com) Web [www.readeroptions.co.uk](http://www.readeroptions.co.uk)

## Access Control

### Technical Specifications

#### Electrical Characteristics

Operating Voltage:  
4.75 – 5.00 V DC  
Linear Type Recommended

Current @ 5V DC:  
Standby: 35mA  
Read: 100mA

RF Modulation  
125 KHz, ASK

Compatible Cards  
All EM H4002 cards

#### Environmental Characteristics

Operating Temperature Range:  
-31° C to +63° C

Humidity:  
0 – 95% (non-condensing)

Dimensions:  
22mm diameter x 9.5mm height