

UHF-R-G2-232 /UHF-R-18-232

Long range embedded UHF RFID read only reader

General Description

This is a long range UHF embedded RFID read only reader is designed to read and identify most passive tags, such as Philips in ISO-18000-6B / ePC standard. It is embedded into antenna housing which gives easy and quick installation and maintenance. This reader system is ideal for applications where long range or high-speed object identification is required:

- Traffic Management
- Toll Gate Payment
- Vehicle Parking Management
- Security Access Management
- Production Line Management

Specifications

- Reading range : 3-5m (depending on the tag)
- Read single Tag ID only / without write function
- Communication protocol : ISO-18000-6B or EPC
- Microwave Output Power : 1W
- Interface : RS232
- Frequency range: 902-928MHz at ISM band
- Antenna : Build-in circular polarization antenna
- Operating temperature: -20°C To +50°C
- Storage temperature: -40°C To +80°C
- Waterproof moisture-proof case
- Power supply: +9 VDC @3A
- Dimension: 220 X 220 X 50 mm
- Weight : 1.5 kg



Ordering part No

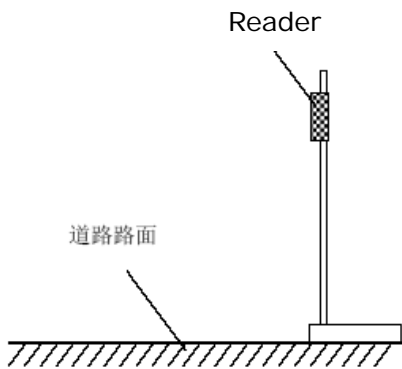
UHF-R-G2-232	EPC G2 UHF embedded RFID reader with RS232 interface
UHF-R-18-232	ISO18000-6B UHF embedded RFID reader with RS232 interface

Wire assignment

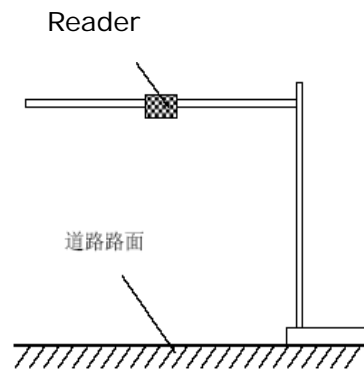
Reader wires Color	Pin assignment	RS232 connector
Red	+9Vdc (power)	NC
Black	-ve (power)	NC
White	RS232 TX	Pin 2
purple	RS232 RX	Pin 3
Black	RS232 GND	Pin 5



Antenna installation

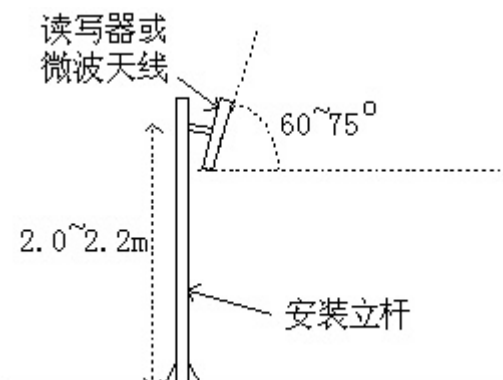


Vertical installation



Horizontal Installation

Adjust the reader to get the best detection performance



When measuring or testing the reader's read range, make sure that the tag is properly oriented to the reader antenna, and for optimum performance, be sure the operator's finger is not within three inches of the tag's antenna surface.

Environment Interference will affect the reading distance.