

# Wiegand Readers

# SECURITY



## Features

- Multiple Wiegand output formats (26-bit and 44-bit).
- Communications distance of up to 150 m (164 yd).
- Dual input voltage types supported (5 V DC and 12 V DC).
- Read capability from various tag types: Slim Tags, Omega Tags, Impro Trinary Tags (1074 and 2074) and HID Tags (H10301, H10302 and H10304).
- A single tri-coloured Red, Green or Amber Status LED.
- A 4 kHz single volume, single tone piezo-electric Buzzer.
- An external Wiegand communications bus interface.

## PHYSICAL SPECIFICATIONS

### WPR900 Wiegand Plastic Non-keypad Reader

Length	88 mm (3.46 in).
Width	54 mm (2.12 in).
Height	25 mm (0.98 in).
Approximate Weight	112 g (4 oz).
Housing Material	ABS Plastic.
Color	Dark Grey.

### WPK900 Wiegand Plastic Keypad Reader

Length	113 mm (4.44 in).
Width	81 mm (3.19 in).
Height	32 mm (1.26 in).
Approximate Weight	185 g (6.5 oz).
Housing Material	ABS Plastic.
Color	Dark Grey.

### WMR900 Wiegand Plastic Keypad Reader

Length	75 mm (2.95 in).
Width	72 mm (2.83 in).
Height	27 mm (1.06 in).
Approximate Weight	229 g (8 oz).
Housing Material	Die-cast Zinc Alloy.
Color	Satin Nickel powder coated.

### WMK900 Wiegand Metal Keypad Reader

Length	142 mm (5.59 in).
Width	76 mm (2.99 in).
Height	27 mm (1.06 in).
Approximate Weight	513 g (18 oz).
Housing Material	Die-cast Zinc Alloy.
Color	Satin Nickel powder coated.

### WJB900 Wiegand Junction Box

Length	120 mm (4.7 in).
Width	72 mm (2.8 in).
Height	19 mm (0.74 in).
Approximate Weight	144.8 g (5 oz).
Housing Material	ABS Plastic.
Color	Black.

## ENVIRONMENTAL SPECIFICATIONS

### All Wiegand Readers

Operating Temperature	-25°C to +60°C (-13°F to +140°F).
Storage Temperature	40°C to +80°C (-40°F to +176°F).
Humidity Range	0 to 95% relative humidity at +40°C (+104°F) non-condensing.
CE Approval	EN301 489-3, EN301 489-1 and EN300 330-1.
Drop Endurance	2 m (6.56 ft) drop (in packaging).

### WPR900 and WPK900

Dust & Splash Resistance	Designed to work in an indoor or outdoor environment similar to IP53.
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### WMR900 and WMK900

Dust & Splash Resistance	Designed to work in harsh (industrial) indoor or outdoor environments similar to IP53.
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### WJB900

Dust & Splash Resistance	Designed to work in an indoor or protected outdoor environment similar to IP54.
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## ELECTRICAL SPECIFICATIONS

### Power

Input Voltage Rating	5 V DC to 16 V DC, polarity sensitive.
Power Requirements Supply Voltage 5V DC all indicators on	50mA/0.25W
Power Requirements Supply Voltage 12V DC all indicators on	50mA/0.60W
Power Input Protection	Reverse polarity protection is provided on the Reader.

### Wiegand Bus

Electrical Interface	'0' and '1' data streams.
Tag Information Data Format	44-bit Wiegand or 26-bit Wiegand.
Key Information Data Format	26-bit Wiegand only.

### Inputs

Quantity	4
Type	Dry Contact.
Function	Operation of the Buzzer, LED and Scanner Inhibit.

## Make the Intelligent Choice

For more information about PM Tronics Security products, to see demonstrations, or to discuss your company's needs contact the PMT Security team at 727-786-1900.

## GENERAL SPECIFICATIONS

### User Interfaces

Buzzer Volume & Tone	4 kHz piezo-electric, single volume, single tone.
Keys (WPK900 and WMK900)	12 Alphanumeric keys.
Type	5 Digit codes in the range 00000 to 65535. 4 Digit codes in the range 0000# to 9999#.
Status LED	Tri-coloured Red, Green or Amber (Default) (externally visible).

### Miscellaneous

Factory Default Mode	44-bit Wiegand HID Normal Mode (2 Beeps).
Optical Anti-tamper (WJB900 Only)	Open Collector Output on Purple Line. GND reference on Grey Line.

### Ordering Information

WPR900-1-0-GB	Wiegand Plastic Non-keypad Reader.
WPK900-1-0-GB	Wiegand Plastic Keypad Reader.
HRW920-1-0-AC (Previously WMR900-1-0-GB)	Wiegand Metal Non-keypad Reader.
HRK920-1-0-AC (Previously WMK900-1-0-GB)	Wiegand Metal Keypad Reader.
WJB900-1-0-GB	Wiegand Junction Box Reader.

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