

Slimline *Dual*PROX™ Reader

The *Dual*PROX reader reads both old PAC and new 125 kHz type cards and tokens. It also has TWO SIMULTANEOUS data outputs AND TWO selectable Wiegand data output formats.

The reader will output card or token numbers in standard Wiegand 26-bit or 44-bit as well as PAC (and Easikey) compatible serial data. As an installer or system integrator this allows you to easily integrate with many different types of host system controllers and that you only need to stock one item regardless of the system you intend to use with the reader.

Please note that when using the PAC compatible serial data output the reader will output the same token code as PAC and Easikey readers but a different token code than KeyPAC readers

Specification

<i>Size:</i>	116 mm High x 40 mm Wide x 17 mm Deep
<i>Colour:</i>	Black (White and Grey available on request)
<i>Material:</i>	ABS Plastic – Stabilised against Ultra Violet light
<i>Reading range:</i>	Up to 80 mm dependant on the type of token or card
<i>Operating Temperature:</i>	-30 °C to + 50 °C Ambient
<i>Rating:</i>	IP 66 - suitable for outdoor and indoor use
<i>Supply voltage:</i>	9 V dc to 24 V dc
<i>Total supply current:</i>	< 110 mA
<i>Data Outputs:</i>	Selectable 26-bit or 44-bit Wiegand AND PAC Compatible Serial Data
<i>Cable length supplied:</i>	flying lead of 0.5 metres
<i>Connections:</i>	8 core screened
<i>Cable lead gauge:</i>	7/0.2, 0.22 mm ² stranded

Wiring connections

Core Colour	Function
Red	+V
Black	0V
White	Data 1
Green	Data 0
Blue	PAC Signal Data
Yellow	LED
Orange	Wiegand Format Select Wiegand 26-bit (to 0V) or 44-bit Data Output (to +V)
Brown	Buzzer

Reader Operation

Normal State:

When powered the reader will have its Red LED lit. When a token or card is presented to the reader the Green LED will blink and the buzzer will sound to indicate that the reader has read the token or card and passed the information on to the host controller. An identification device will only be read once while it remains in the field of the reader. It must leave the reader field for at least 2 seconds before it will be read again.

LED Control:

When the LED line (yellow lead) is held at 0V the Red LED will go out and the Green LED will light for as long as the line is held at 0V.

Buzzer Control:

The Buzzer will sound when its line (brown lead) is held at 0V. A short beep is also produced when any recognized identification device is read.

Wiegand Format Select:

The DP2200 reader has two selectable Wiegand data outputs. 26-bit Wiegand is selected when the Wiegand Select line is left floating or is tied to 0V. 44-bit Wiegand is selected when the Wiegand Select Line is tied to +V.

NOTE: The Wiegand Output lines of the reader are fed by an open collector transistor – a biasing resistor may be required on some host controllers for correct operation. Please refer to the controller reference documentation.

Installation

The reader should be mounted at an appropriate height for all users. This is usually at around door handle height. The reading range of the *DualPROX™* Reader may reduce slightly if it is mounted directly on to a metallic surface.

Do not mount readers directly beside each other or back to back; ensure a separation of not less than 1.0 metre. The mounting holes of the reader are 80 mm apart. Use No. 6 screws with appropriate fixings for the mounting surface.

The reader is provided with a flying lead, 0.5 metres in length. Connections should be made directly to the host controller or when necessary the cable should be jointed and extended. The joints should be made in a suitable location preferably internal to the building or enclosure. All connections made externally must be sealed with a suitable silicone sealant to prevent corrosion of the terminals and connections.

Lock Suppression

To prevent damage to the reader, an appropriate back EMF suppression device should be fitted to the cables feeding power to any electric or magnetic locking device connected to the system. This will suppress the back EMF spike returning to the host controller when power is removed from the lock. The suppression device should be fitted as close as possible to the electric or magnetic lock.