

Pyramid Series Proximity™ Readers

The Pyramid Series Proximity line of OEM Proximity Readers can be used with virtually any manufacturer's access panel because the readers produce industry standard pass-through Wiegand (26-bit or custom formats) or magnetic stripe output. Readers can be configured to work with access panels using either single or dual LED control lines.

Optionally, Pyramid Series readers can be configured in the factory to read standard formatted HID credentials¹. Pyramid Series readers are able to read the following Pyramid Series credentials.

- PSC-1 Standard Light Proximity Cards
- PSM-2 Multi Technology Cards
- PSK-3 Proximity Key Tags

When a card or tag is read, a Pyramid Series reader immediately responds with a beep and an LED flash². The access panel then handles subsequent LED and beeper responses. Both the beep and the flash in this "Beep-n-Flash" feature can be disabled. Pyramid Series readers also feature built-in diagnostics: a start-up self test to ensure reader functionality and a data line test to ensure reader/access panel communication.

The Pyramid Series features five readers, each with its own unique characteristics, to meet virtually any requirements an end-user may have.

- The **P-300 Cascade Proximity Reader** is intended for installation on a window mullion or a door frame, in proximity applications where an unobtrusive reader is required. It can be mounted on metal or non-metal surfaces without loss of read range.
- The **P-400 Gibraltar Proximity Reader** is intended for mounting on a flat surface or a solid metal surface, in proximity applications where a vandal-resistant reader is required.
- The **P-500 Alps Proximity Reader** is intended for mounting on a flat non-metal surface or on a standard U.S. single-gang electrical box (if the electrical box is metal, the provided standoff must be used).
- The **P-600 Rocky Proximity Reader and Keypad** combines a Pyramid Series reader and a stainless steel Essex Keypad™ into one attractive package. The P-600 reader can be used in applications requiring single verification, either via proximity access or PIN, but it is typically used in applications requiring dual verification - an individual requesting access to a secure area must have both a valid proximity access credential and a valid Personal Identification Number (PIN). To use the P-600 reader for dual verification the access panel must be capable of handling the Wiegand format for the proximity section and either the 8-bit burst or 26-bit Wiegand format for the keypad section. The P-600 is designed for mounting on a flat, non-metal surface or on a standard U.S. single-gang electrical box.
- The **P-700 Yukon Reader** is intended for mounting where a longer read range contributes to the convenience of the access system; such as parking lots, employee entrances, and physically challenged (ADA requirement) access applications. Due to the reader's longer read range, care must be taken in mounting the reader in environments where metal and sources of electromagnetic or radio frequency interference is present.

1. See Section 1.0 [HID Compatibility](#) for more information.

2. The P-400 Gibraltar Proximity Reader does not have an LED to maximize its vandal resistance.



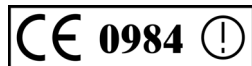
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The electronics for the P-300, P-500, P-600, and P-700 readers is housed in a weatherproof, shock resistant package. This package is mounted to the installation surface. An attractive, snap-on, scratch-resistant, black or off-white front cover hides the electronics package and installation mounting hardware providing an extra level of security.

The electronics for the P-400 reader is housed in a stainless steel package, designed to be weather, vandal, and bullet resistant.

All Pyramid Series readers are compliant with the following organizations:

- FCC



- (see Footnote ¹)



1.0 HID Compatibility

Pyramid Series readers can be configured in the factory to read HID's standard proximity access control cards, including the ProxCard II, ISOProx II, and ProxKey II in 26-bit and other Wiegand formats, as well as all Pyramid Series credentials. Readers configured to be HID compatible, an optional feature, will have the following sticker on the back side of the reader. When ordering readers that are HID compatible, the letter "H" will be added to the reader name identifying it as HID compatible. For example, the P-300 reader that is HID compatible will be called P-300H.



HID compatible Pyramid Series Readers do not require any special wiring connections. There might be read range differences between HID cards and Pyramid Series credentials. The reader will beep and flash twice to indicate it has read a non standard HID card.

NOTE: If you are enrolling cards for a "hybrid" site (one using both Pyramid series and HID credentials), it is possible to have duplicate card coding (i.e. identical format, facility code, and ID number).

1. This product can be used without license conditions or restrictions in all European Union member countries including Austria, Belgium, Denmark, Finland, France, Germany, Greece, Ireland, Italy, Luxembourg, The Netherlands, Portugal, Spain, Sweden, The United Kingdom, as well as other non-EU countries including Iceland, Norway, and Switzerland.

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2.0 Reader Specifications

Table 1: Reader Specifications

	P-300	P-400	P-500	P-600	P-700
Dimensions	3.0" H x 1.5" W x 0.5" D	5.25" H x 2" W x 0.75" D	4.5" H x 3" W x 0.4" D	4.4" H x 3.9" W x 0.95" D	8.5" H x 6.0" W x 1.0" D
	76 mm H x 38 mm W x 12 mm D	133.5 mm H x 51 mm W x 19 mm D	114 mm H x 76 mm W x 10 mm D	112 mm H x 99 mm W x 24 mm D	216 mm H x 152 mm W x 25.5 mm D
Operating Voltage^a	5 to 14 VDC @	5 to 14 VDC @	5 to 14 VDC @	5 to 14 VDC @	5 to 14 VDC @
Current Draw	80 mA nominal	90 mA nominal	80 mA nominal	100 mA nominal	285 mA nominal
Operating Temperature	- 40°C to +65°C (- 40°F to +150°F)	- 40°C to +65°C (- 40°F to +150°F)	- 40°C to +65°C (- 40°F to +150°F)	- 40°C to +65°C (- 40°F to +150°F)	- 40°C to +65°C (- 40°F to +150°F)
Frequency	125 KHz excitation	125 KHz excitation	125 KHz excitation	125 KHz excitation	125 KHz excitation
Audio Tone	standard	standard	standard	standard	standard
LED Indicator	4-state: Red, Green, Amber, Off	not applicable	4-state: Red, Green, Amber, Off	4-state: Red, Green, Amber, Off	4-state: Red, Green, Amber, Off
Front Cover Colors^b	Black or Off-White	Stainless Steel & Fiber-Tex®	Black or Off-White	Black or Off-White	Black or Off-White

a. A supply voltage of 12 VDC at the reader is recommended for best operation.

b. Except for the P-400 reader, all readers ship with both black and off-white front covers.



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3.3 P-500 Alps Reader Mounting Instructions

Three holes need to be drilled to mount the P-500 Reader's electronics package (see Figure 3). One large hole (7/8 inch - 22 mm) accommodates the beeper and the reader cable. Two small pilot holes for a #6 screw (1/8 inch - 3 mm) are for mounting the electronics package on a wall surface. Drilling is not required if the reader is to be mounted to a standard U.S. single gang electrical box - the electronics package is mounted directly to the box.

When mounting to a single gang electrical box, if the box is made of plastic, the electronics package can be mounted directly to the box. If the box is made of metal, a 1/2 inch thick, plastic spacer is necessary to prevent the metal of the box from interfering with the reader's read range.

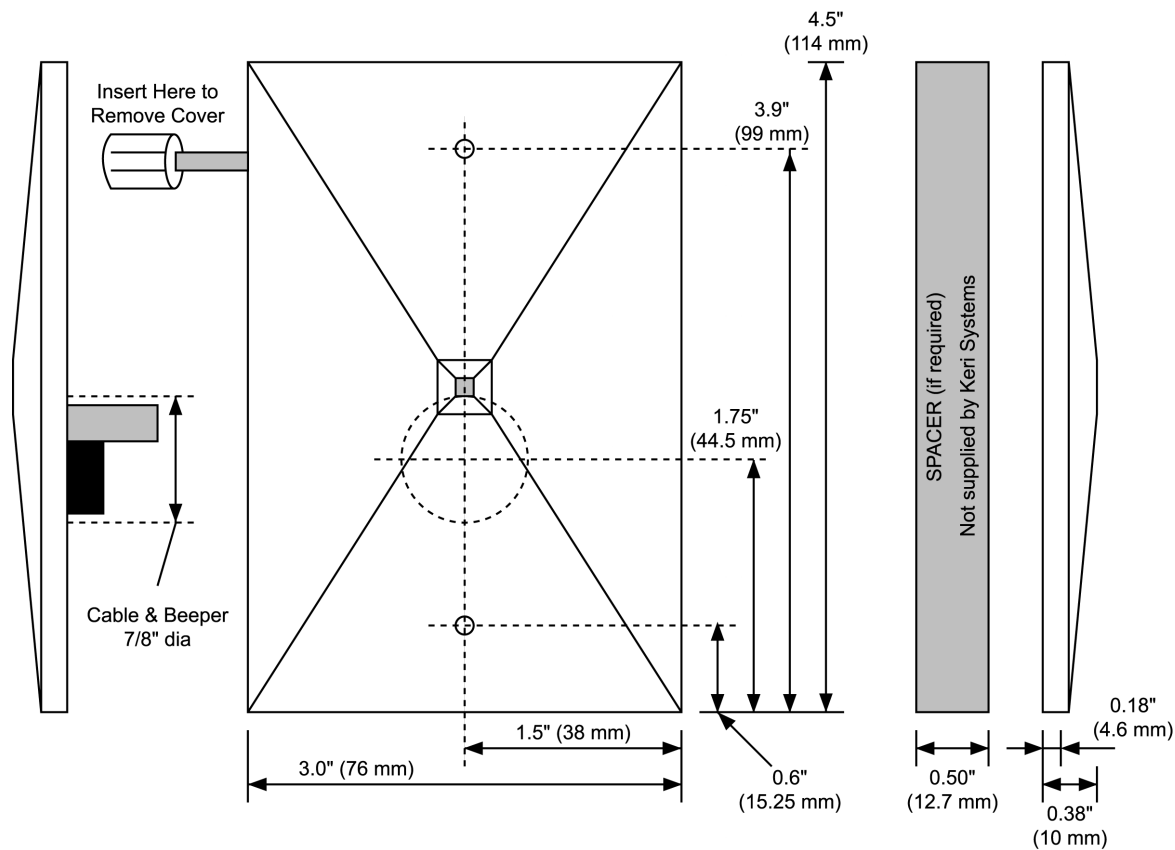


Figure 3: P-500 Mounting Diagram