Heavy Duty Keypad/Card Access Control Reader

Built to Last
Essex Readers
secure
International
Airports
around the
World

PIEZOPROX® & iSMART™

Extreme Duty Keypad/Card Reader
Superior Vandal Resistance
All Weather IP66 Rated Design
Epoxy Encapsulated Electronics
Genuine HID Technology™
125kHz Proximity or 13.56MHz iCLASS®
Essex Piezoelectric Keypad
Laser Marked Keypad Graphics

Essex Electronics
1-800-KEYLESS  keyless.com
**Features**

**All Weather Design**
Epoxy encapsulated electronics in a weatherized enclosure provides superior performance in even the most extreme environment.

**Vandal Resistant Construction**
Stainless steel piezoelectric keypad and encapsulated card reader designed for vandal prone areas.

**Keypad Switch Technology**
Essex Piezoelectric Billion Cycle Switch Technology™

**Laser Marked Keypad Graphics**
Laser marked Stainless Steel withstands wear from frequent use and harsh environments. [i.e. JA Jetfuel, bleach]

**Mounting Method**
Mounts directly to a single gang switchbox or surface mount.

**Field Selectable Input Voltage**
Select either 5 or 12 volts during installation.

**Programmable Site Code (26 Bit Wiegand Keypad)**
Program a site code (000 to 255) in the field.

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**Specifications**

**Power Requirements**
5 or 12VDC Field Selectable

**Output**
Card Reader: Wiegand output interfaces with most access control systems.
Keypad: 26 Bit Wiegand or 8 Bit Word

**Transmit Frequency**
PiezoProx: 125kHz
iSMART: 13.56MHz

**Maximum Read Range**
PiezoProx: Up to 5" (12.7 cm)
iSMART: Up to 3" (7.6 cm)

**Keypad Switch Life**
> 1 Billion Cycles

**Current Draw**

<table>
<thead>
<tr>
<th>Current Draw</th>
<th>With LED</th>
<th>Without LED</th>
</tr>
</thead>
<tbody>
<tr>
<td>5 Volt</td>
<td>&lt; 50mA</td>
<td>&lt; 30mA</td>
</tr>
<tr>
<td>12 Volt</td>
<td>&lt; 80mA</td>
<td>&lt; 35mA</td>
</tr>
</tbody>
</table>

**Operating Environment**
IP66 Rated, -40°C to + 70°C (-40°F to + 160°F)
100% Relative Humidity

**Dimensions**

<table>
<thead>
<tr>
<th>Dimensions</th>
<th>Height</th>
<th>Width</th>
<th>Depth</th>
</tr>
</thead>
<tbody>
<tr>
<td>PiezoProx/iSMART</td>
<td>7 1/4&quot;</td>
<td>3 3/4&quot;</td>
<td>1 1/8&quot;</td>
</tr>
<tr>
<td>(18.4 cm)</td>
<td>(9.2 cm)</td>
<td>(3.8 cm)</td>
<td></td>
</tr>
</tbody>
</table>

**Weight**
25 oz (709 gm)

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**ORDERING GUIDE**

<table>
<thead>
<tr>
<th>Essex Part No.</th>
<th>Description</th>
</tr>
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<tbody>
<tr>
<td>PPH - 103 - SN</td>
<td>PiezoProx® Reader - HID Proximity w/ 26 Bit Wiegand Keypad, Stainless Bezel</td>
</tr>
<tr>
<td>PPH - 103 - KN</td>
<td>PiezoProx® Reader - HID Proximity w/ 26 Bit Wiegand Keypad, Black Bezel</td>
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<tr>
<td>PPH - 163 - SN</td>
<td>PiezoProx® Reader - HID Proximity w/ 8 Bit Word Keypad, Stainless Bezel</td>
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<td>PiezoProx® Reader - HID Proximity w/ 8 Bit Word Keypad, Black Bezel</td>
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<tr>
<td>ISH - 103 - SN</td>
<td>iSMART® Reader - HID iCLASS w/ 26 Bit Wiegand Keypad, Stainless Bezel</td>
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<td>FOB - 1346 - 50</td>
<td>50 ea. HID Prox Keyfobs [125kHz 26 Bit Proximity]</td>
</tr>
<tr>
<td>FOB - 2050 - 50</td>
<td>50 ea. HID iCLASS Keyfobs [13.56MHz 37 Bit iCLASS]</td>
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<tr>
<td>CARD - 1326 - 100</td>
<td>100 ea. HID Clamshell Prox Cards II [125kHz 26 Bit Proximity]</td>
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<tr>
<td>CARD - 2080 - 100</td>
<td>100 ea. HID Clamshell iCLASS Smart Cards [13.56MHz 37 Bit iCLASS]</td>
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