

# 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



SEOS

**Essex  
Electronics**  
1-800-KEYLESS [keyless.com](http://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.



PiezoProx® w/ Stainless Bezel

**Specifications**

**Power Requirements**

5 or 12VDC Field Selectable

**Output**

Card Reader: Wiegand output interfaces with most access control systems.

Keypad: **Field Programmable Multi Format (26 bit, 8 bit)**

**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**

With LED

Without LED

5 Volt < 50mA < 30mA

12 Volt < 80mA < 35mA

**Operating Environment**

IP66 Rated, -40°C to + 70°C (-40°F to + 160°F)

100% Relative Humidity

**Dimensions**

Height

Width

Depth

PiezoProx/iSMART

7¼"

3⅝"

1½"

[18.4 cm]

[9.2 cm]

[3.8 cm]

**Weight**

25 oz (709 gm)



**ORDERING GUIDE**

**Essex Part No.**

PPH - 103 - SN

PPH - 103 - KN

PPH - 163 - SN

PPH - 163 - KN

ISH - 34 - SN

ISH - 34 - KN

**Description**

PiezoProx® Reader- HID Proximity w/26 Bit Wiegand Keypad, Stainless Bezel

PiezoProx® Reader- HID Proximity w/26 Bit Wiegand Keypad, Black Bezel

PiezoProx® Reader- HID Proximity w/8 Bit Word Keypad, Stainless Bezel

PiezoProx® Reader- HID Proximity w/8 Bit Word Keypad, Black Bezel

iSMART SE™ Reader - HID iCLASS SE® w/K1 Series Keypad, Stainless Bezel

iSMART SE™ Reader - HID iCLASS SE® w/K1 Series Keypad, Black Bezel



LPiezoProx/iSMART.0720.R1

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