



# IMPROX SKA

## ImproX (SKA) 125 kHz SupaGate Keypad Antenna Reader INSTALLATION MANUAL

### SPECIFICATIONS

<b>Working Environment</b> .....	Designed to work in an indoor or outdoor environment similar to IP53. The ImproX SKA is, therefore, sealed (potted) against water.
<b>Buzzer</b> .....	Single tone, 4 kHz.
<b>Keypad</b> .....	12 Alphanumeric keys.
<b>Status Indicators</b>	
Status LED .....	Bi-coloured Red or Green.

### INSTALLATION INFORMATION

#### Accessories

Find the following when unpacking the Antenna Reader:

- An ImproX SKA Antenna Reader housed in a Black tinted, Polycarbonate Plastic Housing. The ImproX SKA consists of the Front Cover Antenna Reader Assembly (fully potted) and a Backing Plate. The Front Cover Antenna Reader Assembly includes a 2 m (7 ft) shielded multi-strand 3-pair twisted open-ended connection cable.
- An extra Serial Number Label.

#### General

Remember the following when installing the Antenna Reader:

#### Maximum Data Communications Distance

The ideal cable distance between the ImproX SupaGate Controller and the ImproX SKA ranges between 2 m to 16 m (7 ft to 53 ft). Optimal performance is not guaranteed outside of this range. Achieve optimal performance by using good quality screened, twisted pair cable.

Blank Space

## Cable Specifications

The cable specifications should be similar to the following:

Conductor Resistance:	< 2 ohms.
Capacitance, Core to Earth:	< 160 pF/m.
Capacitance, Core to Core:	< 100 pF/m.

## Distance between Antenna Readers from DIFFERENT SupaGate Controllers

To avoid mutual interference, install the Antenna Readers no closer than 500 mm (20 in) apart.

## Mounting the ImproX SKA

---

**CAUTION:** Once clipped together, separation of the Backing Plate and Front Cover is likely to cause damage to the Antenna Reader.

Select the mounting position of the ImproX SKA, considering accessibility, routing of wires and visibility of the Status LED.

Secure the ImproX SKA to the mounting surface, using suitable screws and wall plugs, nuts and bolts, rivets or double-sided adhesive tape.

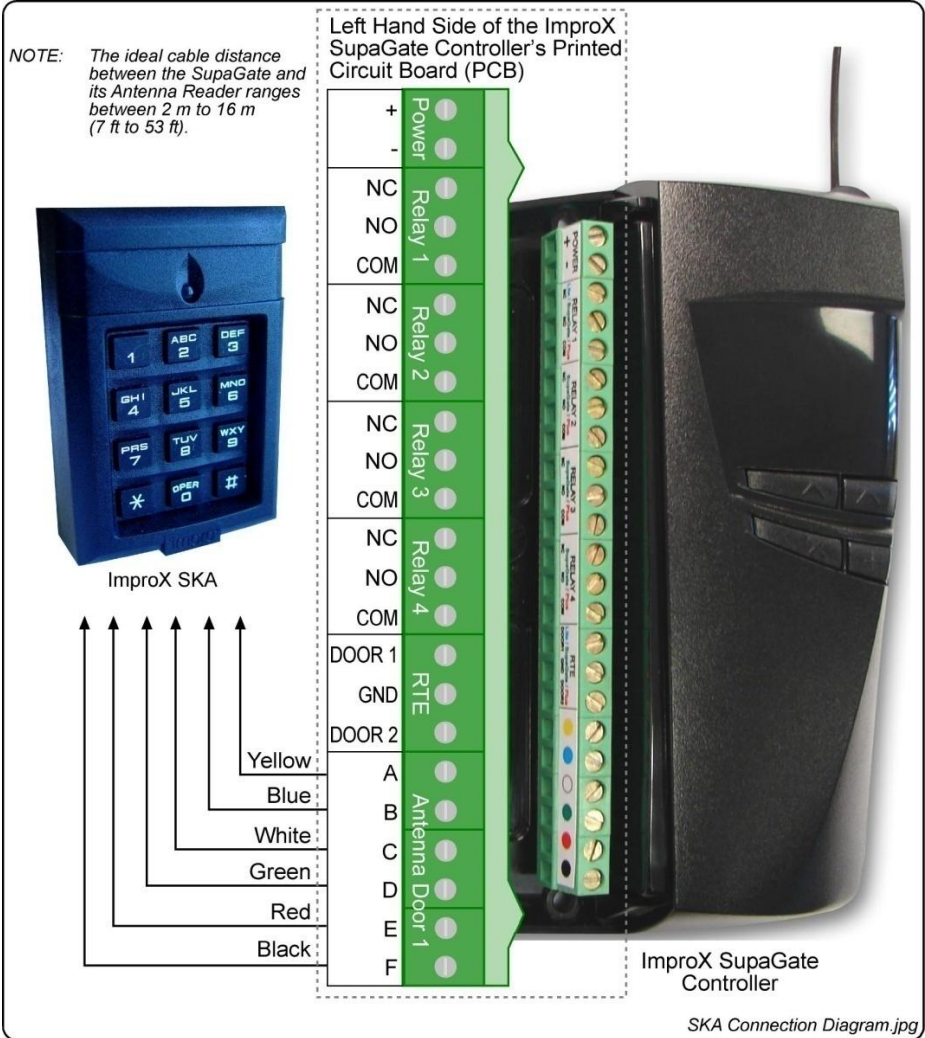
Blank Space

## Connecting the ImproX SKA

Figure 1 shows a detailed connection diagram for the ImproX SKA.

**CAUTION:** The ImproX SKA only connects to the ImproX SupaGate range of Controllers. The ImproX SKA will NOT operate with the ImproX IXP20, the ImproX IXP220, the ImproX (TT) Twin Antenna Terminal, the ImproX (ITT) Intelligent Twin Antenna Terminal, or the ImproX (MfT) Multi-function Terminal.

**NOTE:** The ideal cable distance between the SupaGate and its Antenna Reader ranges between 2 m to 16 m (7 ft to 53 ft).



**Figure 1: Typical ImproX SKA Electrical Connections**

**NOTE:** On powering up, the Antenna Reader will produce a beep sound and the Status LED will illuminate solid Red.

## GUARANTEE OR WARRANTY

This product conforms to our Guarantee or Warranty details placed on our Web Site, to read further please go to [www.impro.net](http://www.impro.net).



This manual is applicable to the ImproX (SKA) 125 kHz SupaGate Keypad Antenna Reader, SGI913-1-0-GB-00.

(The last two digits of the Impro stock code indicate the issue status of the product).

SGI304-0-0-GB-06

Issue 07

Jun 2011

ImproX SKA\English Manuals\LATEST  
ISSUE\ImprXSKA-insm-en-07.docx