VersaReel® Blue

Manual

CONDUCTIX wampfler

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SECTION 1 - SAFETY

Safety Information Responsibility

All owner, operator, and maintenance personnel must read and understand all manuals associated with this product before installation, operation, or maintenance.

The manual provides information on the recommended installation, operation, and maintenance of this product. Failure to read and follow the information provided could cause harm to yourself or others and/or cause product damage. No one should install, operate, or attempt maintenance of this product prior to familiarizing themselves with the information in this manual.

Product Warranty Information

Tampering with the VersaReel Blue in any fashion will automatically void the warranty. Additionally, tampering with the reel can result in a shock hazard.

Safety Messages

The following safety messages are used in this manual to alert you to specific and important safety related information.

CAUTION

CAUTION indicates unsafe actions or situations that have the potential to cause injury, and/or minor equipment or property damage.

DANGER

DANGER indicates hazards that have the potential to cause severe personal injury or death.

WARNING

WARNING indicates unsafe actions or situations that have the potential to cause severe injury, death, and/or major equipment or property damage.

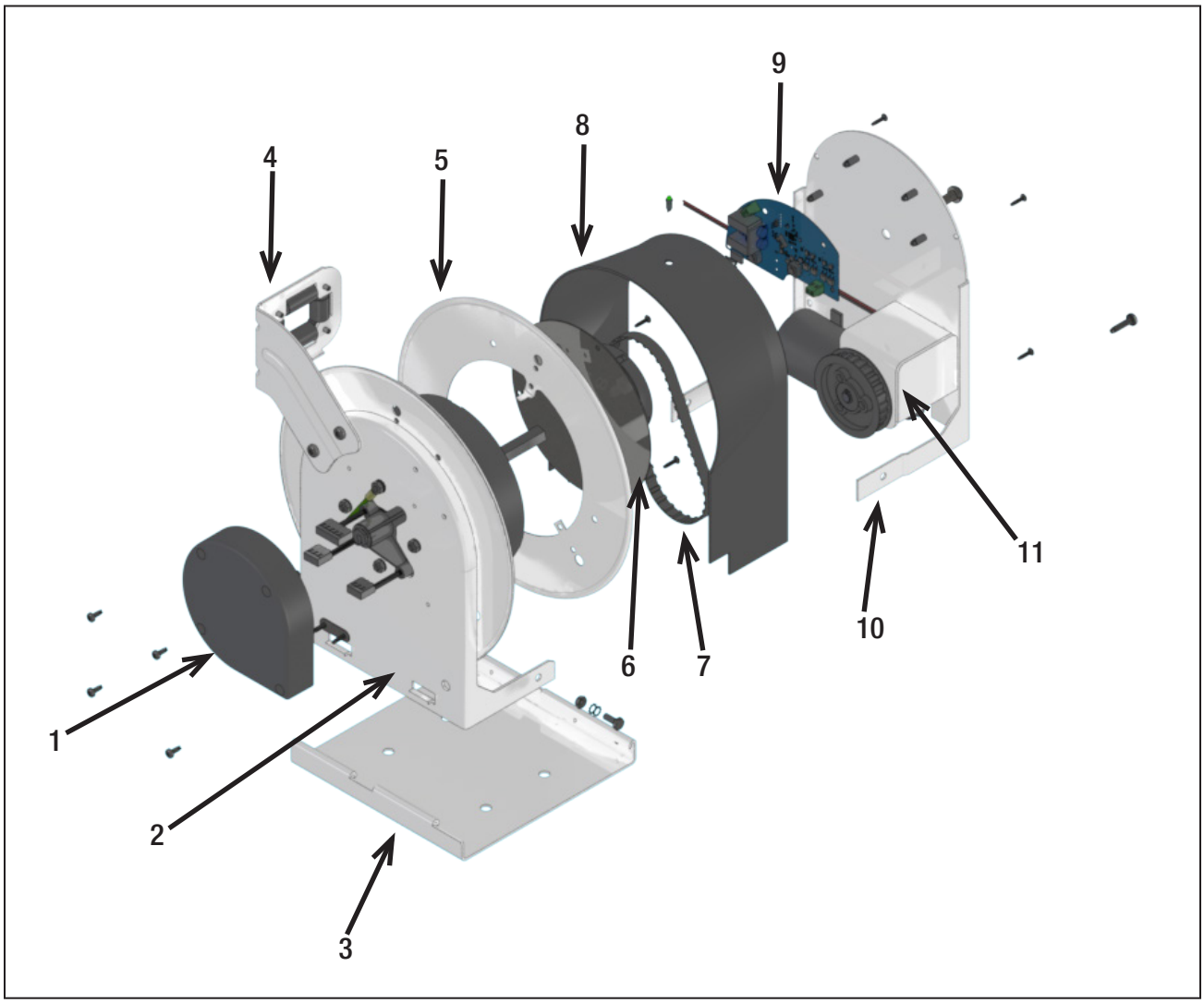
NOTE

NOTE is used to alert you to installation, operation, programming, or maintenance information that is important, but not hazard related.

SECTION 2 - OVERVIEW

General Product Overview

The VersaReel® Blue is a Bluetooth-controlled motorized variant of the VersaReel product line. Extend and retract functions are controlled via Bluetooth application on a smartphone or tablet (a manual clutch also allows for extending by hand).



1. Feeder cord cover
2. Base assembly with drum
3. Quick mount base
4. Guide arm assembly
5. Flange
6. Clutch assembly
7. Belt
8. Cover
9. Circuit board control
10. Frame assembly
11. Motor

SECTION 3 - INSTALLATION

Mounting

The reel may be mounted by bolting the base to any flat surface which is structurally sound and can support the weight of the reel and the forces of winding and unwinding the reel (**Figure 3-1**). The spool must rotate on a horizontal axis for proper operation, and orients so the cable can extend perpendicular to the rotation of the spool. The total cable deflection should not exceed 30°.

While mounting the reel, the installer must always safely support the weight of the reel. The reel should not be left hanging unsupported without the base mounting hardware properly installed and torqued.

Unbolt the base hardware and remove the mounting base from the frame of the cord reel. See **Figure 3-1.**

Securely mount the base in the desired location, and insert the reel into the base. Per the base, the reel only installs in one direction. Re-install the base mounting hardware and torque hardware to 50 in-lbs.

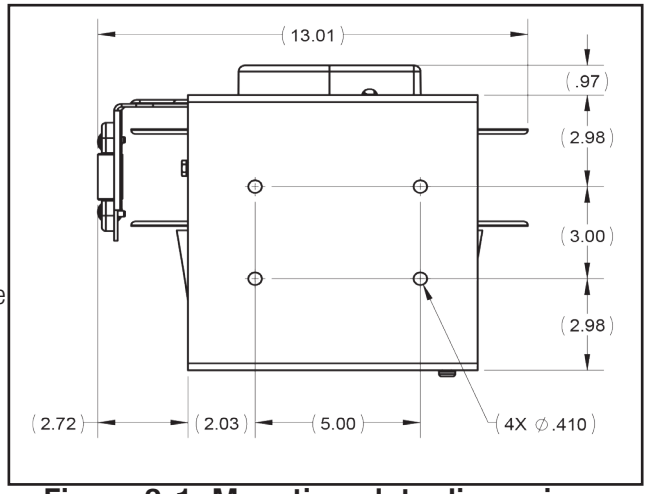


Figure 3-1: Mounting plate dimensions

Reel Deflection

If deflection is constant to either side of the reel and operation is impaired, re-mount the reel. We recommend a safety chain for all overhead installations. Attach the safety chain using the 0.39 hole provided in the base (see **Callout #1, Figure 3-2**).

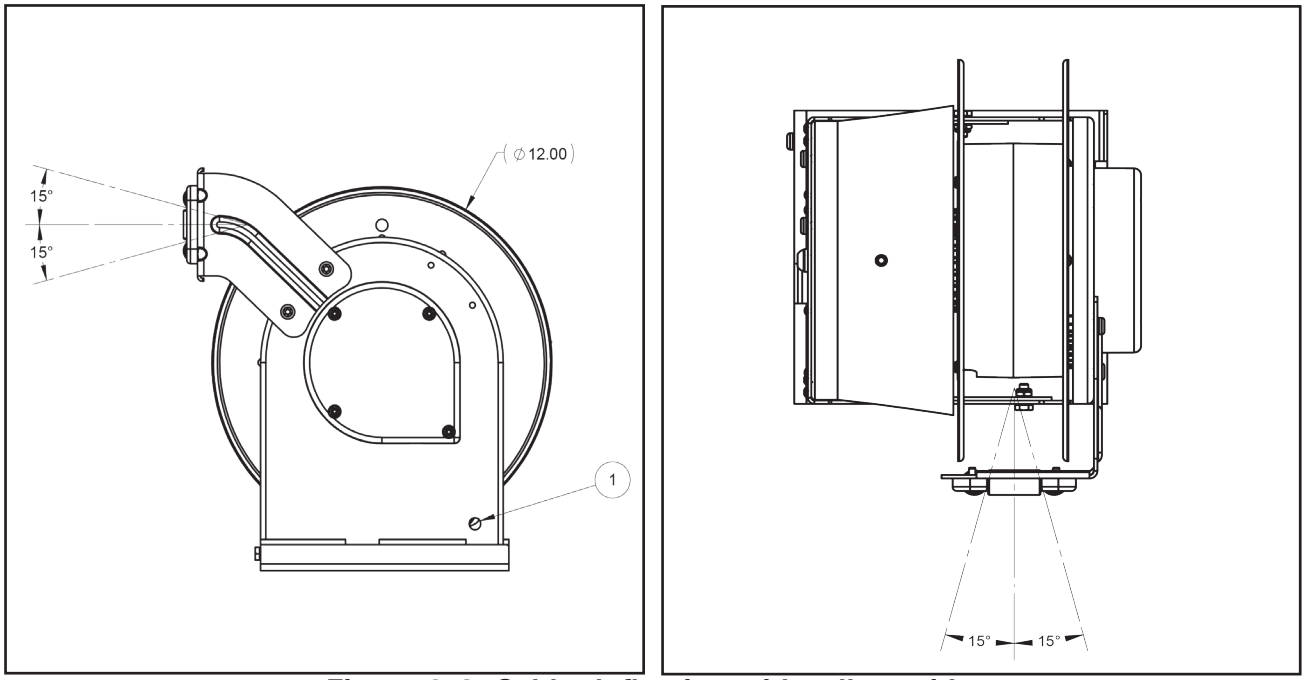


Figure 3-2: Cable deflection with roller guide

SECTION 3 - INSTALLATION

Guide Arm Position Adjustment

1. Slowly unspool a small amount of cable. It will click immediately upon extending to the set length.

2. Unscrew the two Phillips screws. See **Figure 3-3**.

3. Position the guide arm in the desired orientation and re-install the two Phillips screws.

NOTE

In Figure 3-3, Position 1 shows the correct position for a wall mount, and Position 2 is the correct position for a ceiling mount. If arm orientation isn't correct, the clutch will slip and the reel will be unable to retract the cable due to its weight.

4. Torque the screws to 18 in-lbs.

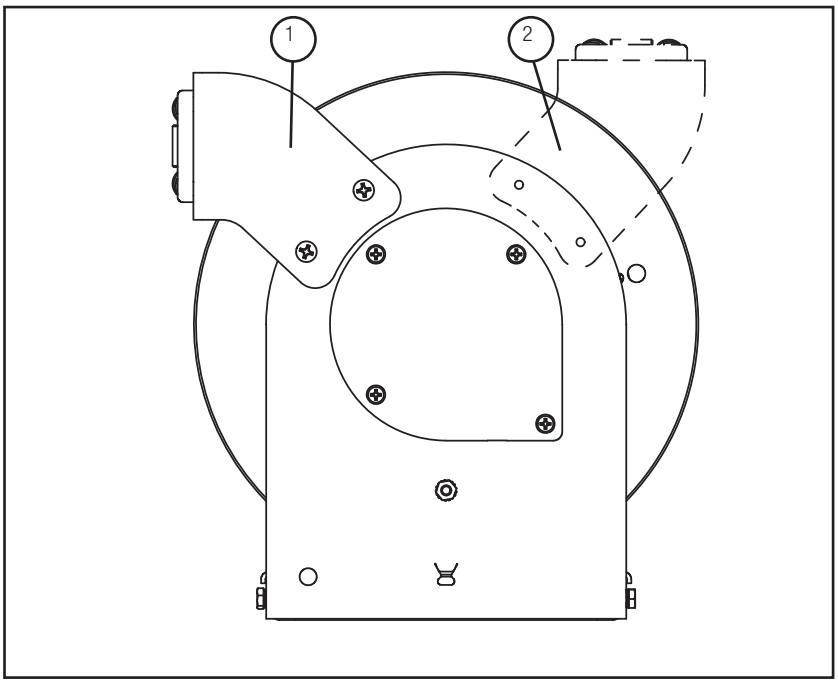


Figure 3-3: Guide arm positions

For More Information

Please contact the factory:

Phone +1-800-521-4888

Email info.us@conductix.com

SECTION 4 - SPECS

VersaReel Blue Specifications

- Cord lengths: 25, 35, 50 ft.
- Cord sizes: 12 or 16 gauge
- Max. reel weight: 29.8 lb.
- Max. suspended weight: 7 lb.
- Bluetooth profile: Bluetooth Low Energy 4.2
- OS minimum: Android 4.4; iOS 5
- Incoming voltage: 120VAC

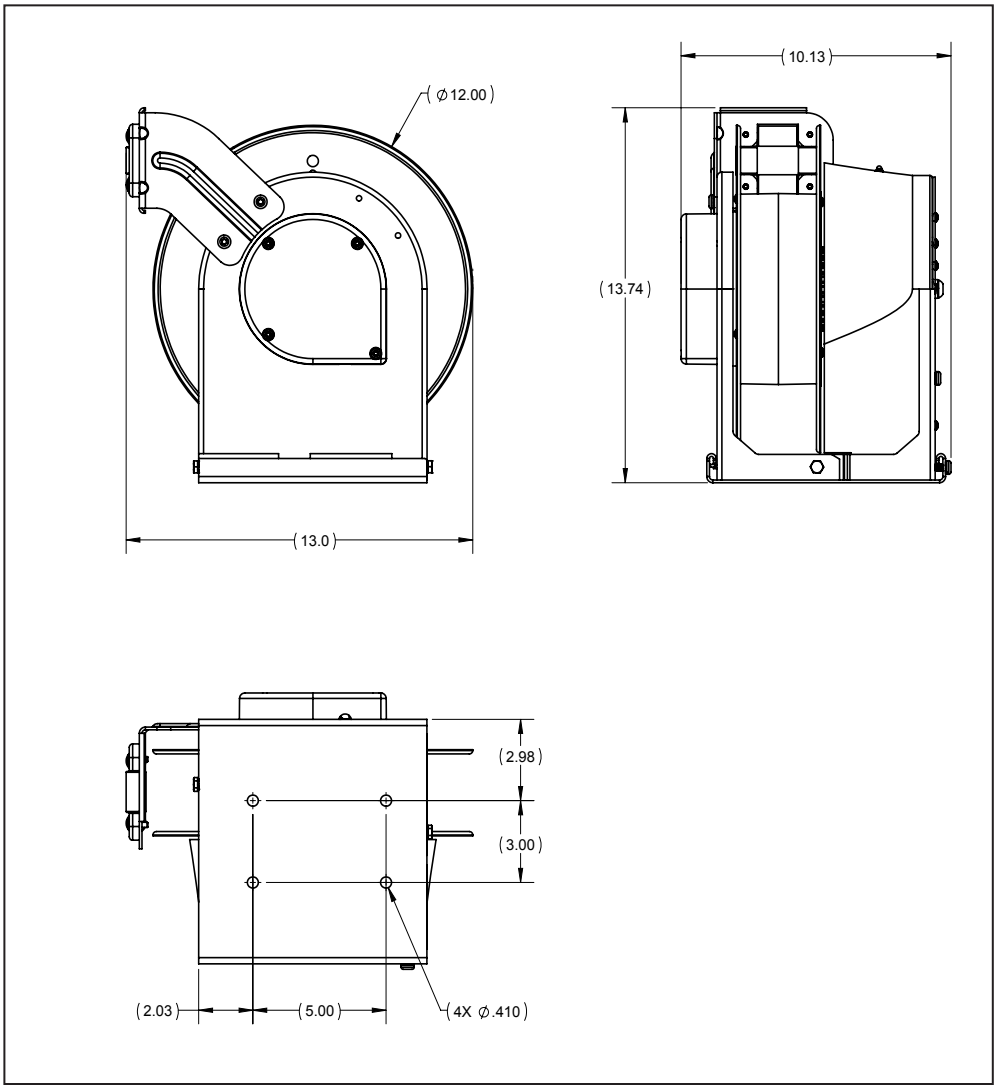


Figure 4-1: Reel dimensions

SECTION 5 - OPERATION

Overview

- Do not exceed the voltage or amperage rating of the reel. Overheating, fire, damage to equipment, or personal injury could result.
- Do not allow cable to retract without being in sight of the reel.
- Operate the reel within the operation range, cable size, and cable length for which it was intended.
- Keep the reel and cable clean to avoid excessive wear and damage.
- Discontinue use and arrange for maintenance service if damage is found on the cable or reel.

Quick Guide

- The VersaReel Blue is able to connect to all Bluetooth-enabled Apple and Android devices.
- Optimal range to use the VersaReel Blue is up to 100 feet.
- As a safety feature, Bluetooth connection from the app to the reel will terminate when the screen is locked, or goes into sleep mode. The user will need to reconnect the app to the reel at this point.

SECTION 6 - GETTING STARTED

App Download

1. On an Apple iPhone or iPad, go to the App Store; on an Android OS phone or tablet, go to the Google Play Store.
2. In the search field, type in “versareelblue”. Tap the **VersaReelBlue** app to open.
3. Tap **Install** in Google Play Store for Android version; tap in Apple Store for iOS version.
4. Once install is complete, tap **Open** to open the app.

Device Safety Features

- If the user taps the **Up** or **Down** buttons more than three times consecutively within 0.5 seconds of each other, all reel function stops and a warning appears. The user must press “**Got It**” to continue.
- Holding the **Up** or **Down** buttons for 25 seconds, regardless of the reel speed, will cause all motor operation to stop.

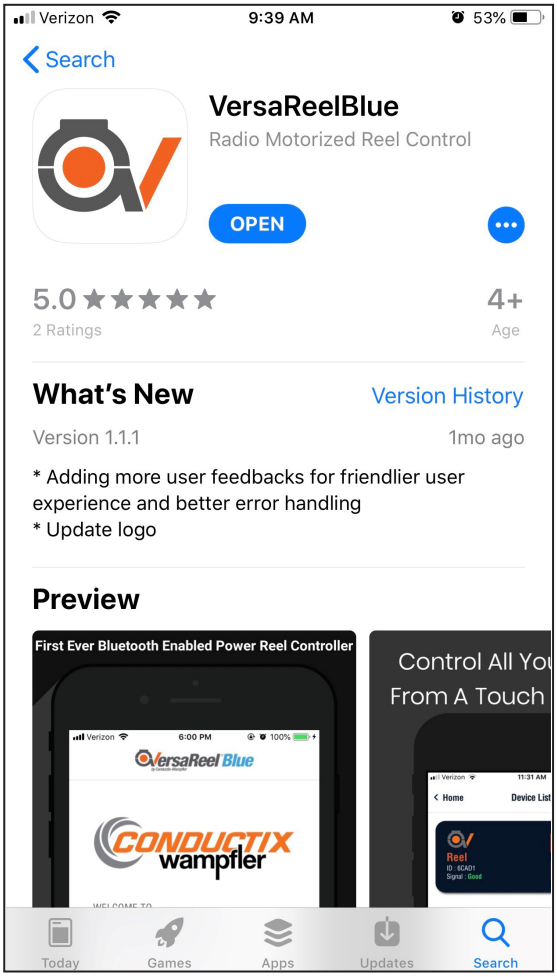


Figure 6-1: App download screen (Apple OS)

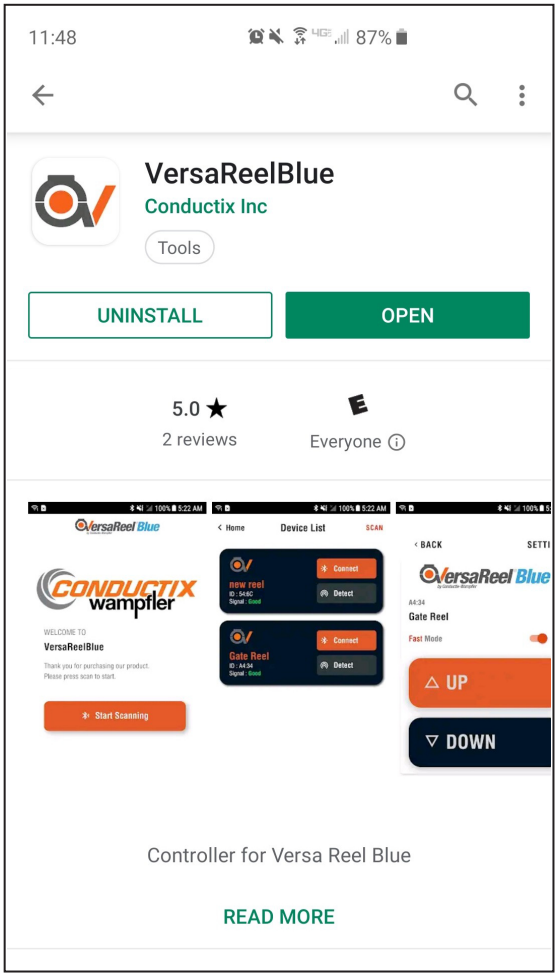
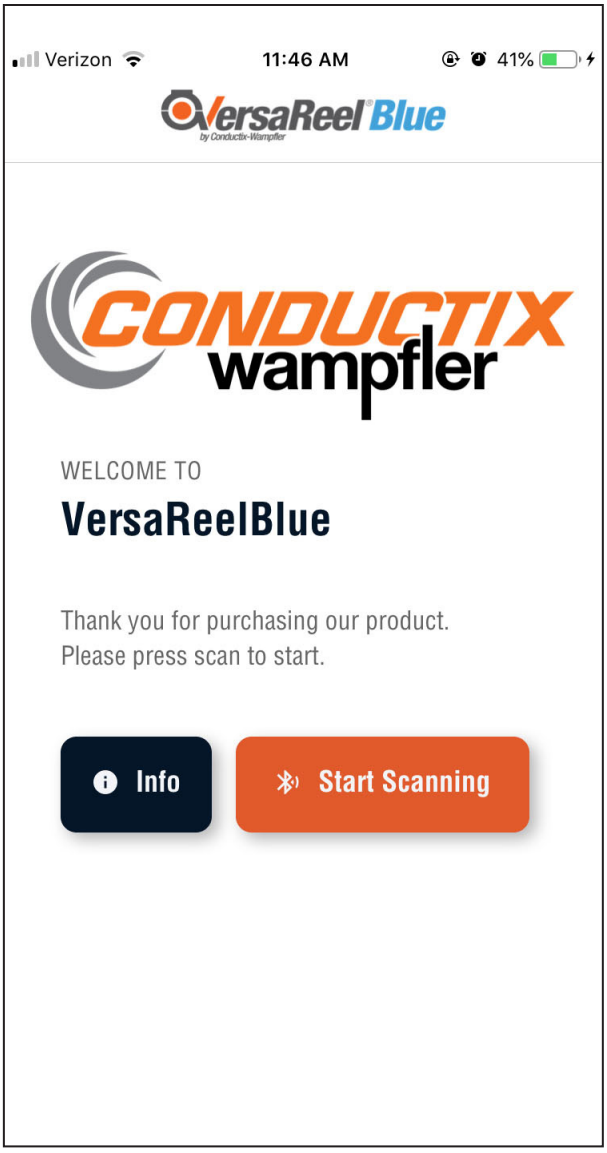


Figure 6-2: App download screen (Android OS)

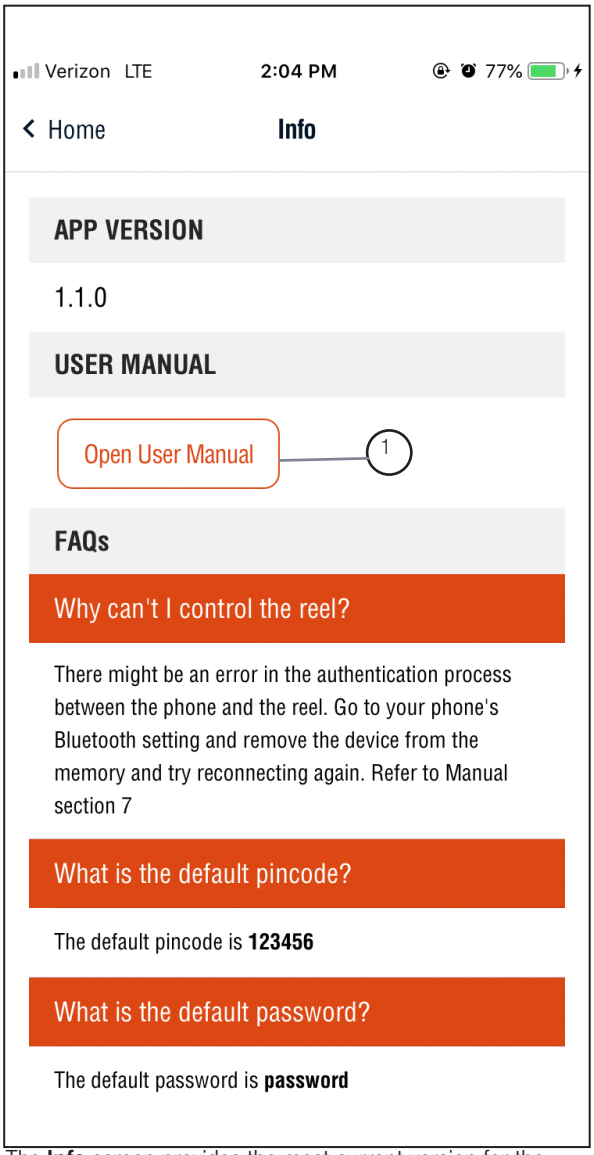
SECTION 7 - MOBILE APP INITIAL SETUP

Scan Screen



When the **Scan** screen comes up, press the **Info** button to display required user information.

Info Screen

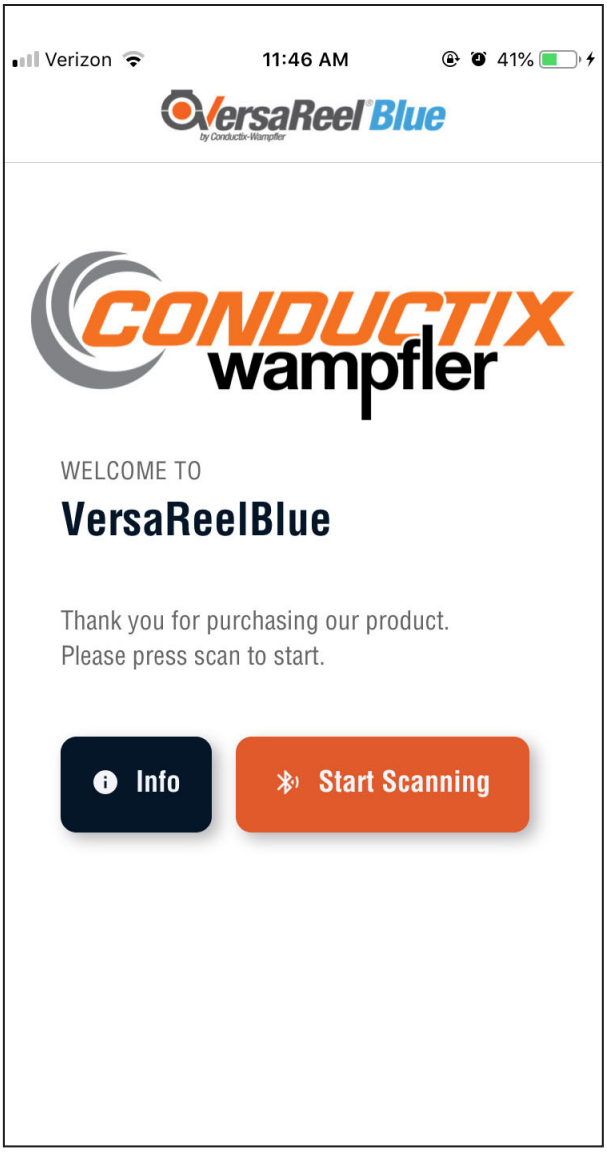


The **Info** screen provides the most current version for the app; a downloadable PDF of the user manual; FAQs; the default pincode; and the default password.

Callouts: 1) Link to the user manual

SECTION 7 - MOBILE APP INITIAL SETUP

Scan Screen



When the **Scan** screen comes up, press **Scan** button to display a list of available devices to connect to.

Device List

The **Scan** screen shows the individual devices to interact with. When user presses the **Hold To Detect Device** button, the reel's light indicator turns red to show which reel the signal is being transmitted to. Green on the light indicator shows an available reel.

Callouts: 1) Detect device; 2) Connect to device; 3) Scan; 4) Hold To Detect Device button

SECTION 7 - MOBILE APP INITIAL SETUP

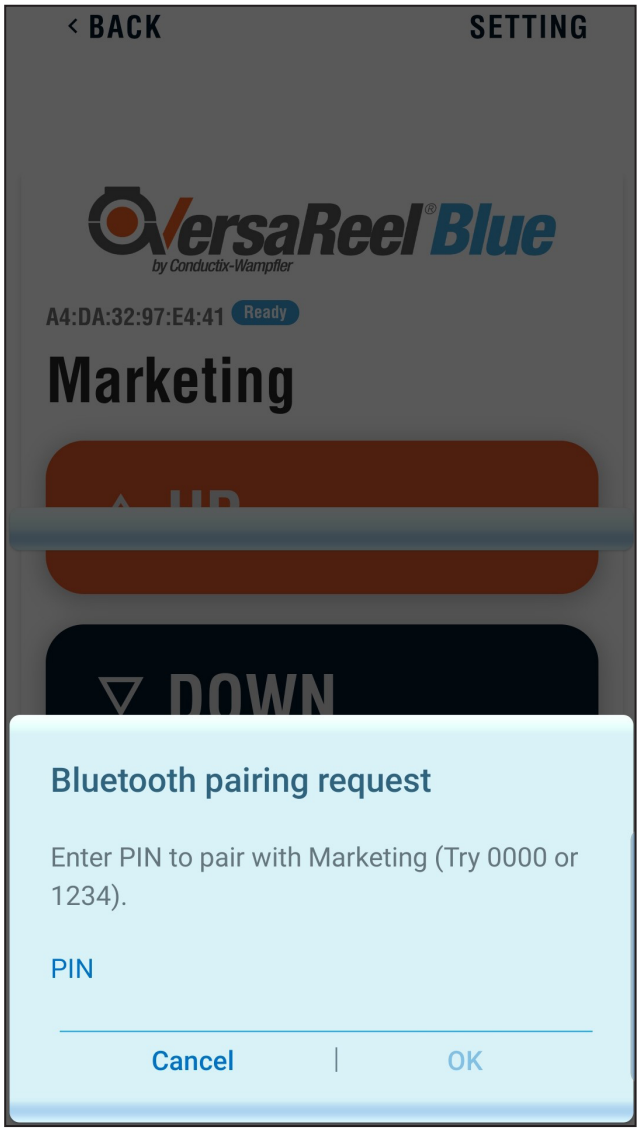
Device Control

Once a device is paired, the main **Device Control** screen comes up.

Callouts: 1) Retract; 2) Pay out

SECTION 8 - MOBILE APP USER CONFIGURATION

Default Pin Code Screen



The first time the **Up/Down** buttons are pressed, a Pairing Requests prompts user to enter pincode. Enter **123456** (pin code can be changed in the **Setting** screen).

NOTE

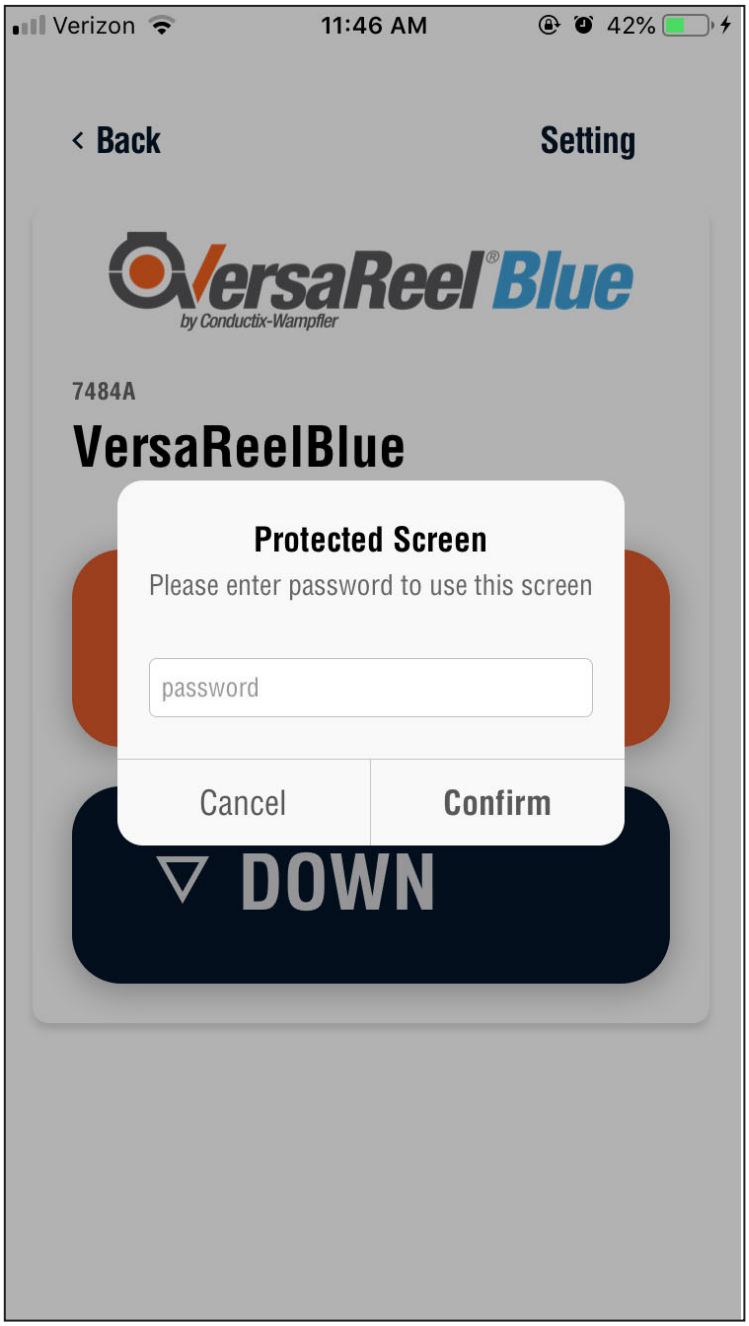
The text prompting user to enter 0000 or 1234 is auto-generated by the phone and is not applicable.

Ready To Use Screen

At the **Ready To Use** screen, changes to the reel's pincode, name, and password are done by pressing the **Setting** tab. Users are encouraged to change the default password following the initial setup. The maximum number of characters for the password is 12 characters, and it must contain one number.

SECTION 8 - MOBILE APP USER CONFIGURATION

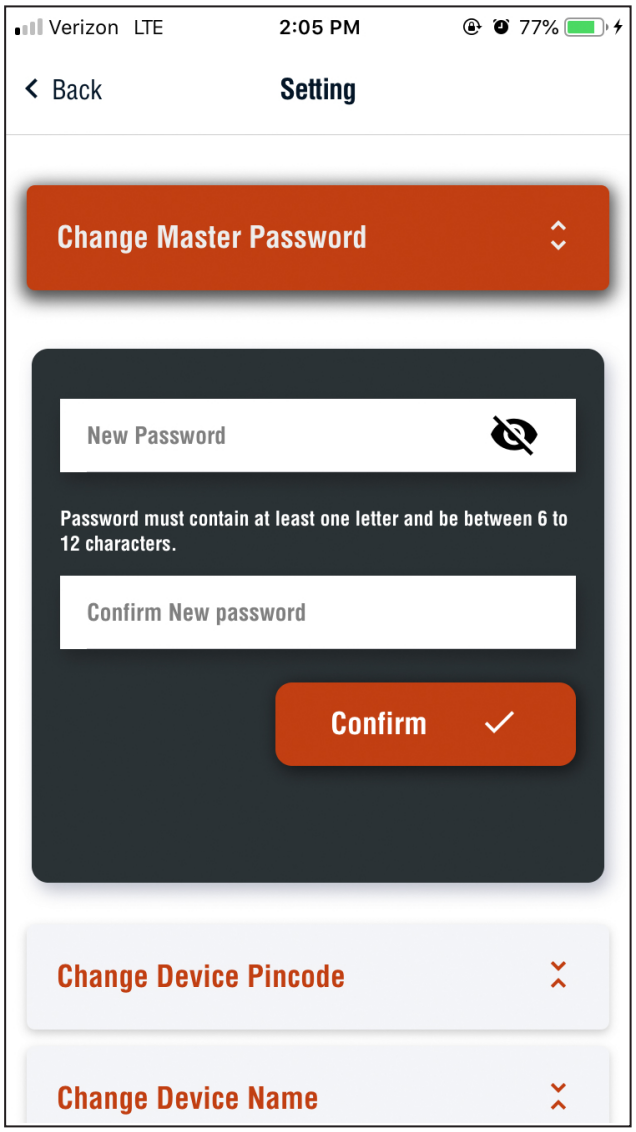
Default Master Password Screen



After selecting **Setting,** a prompt asks for the default master password. Enter **password**. The master password allows user to change the reel's pincode, name, and password. Users are encouraged to change the default password following the initial setup.

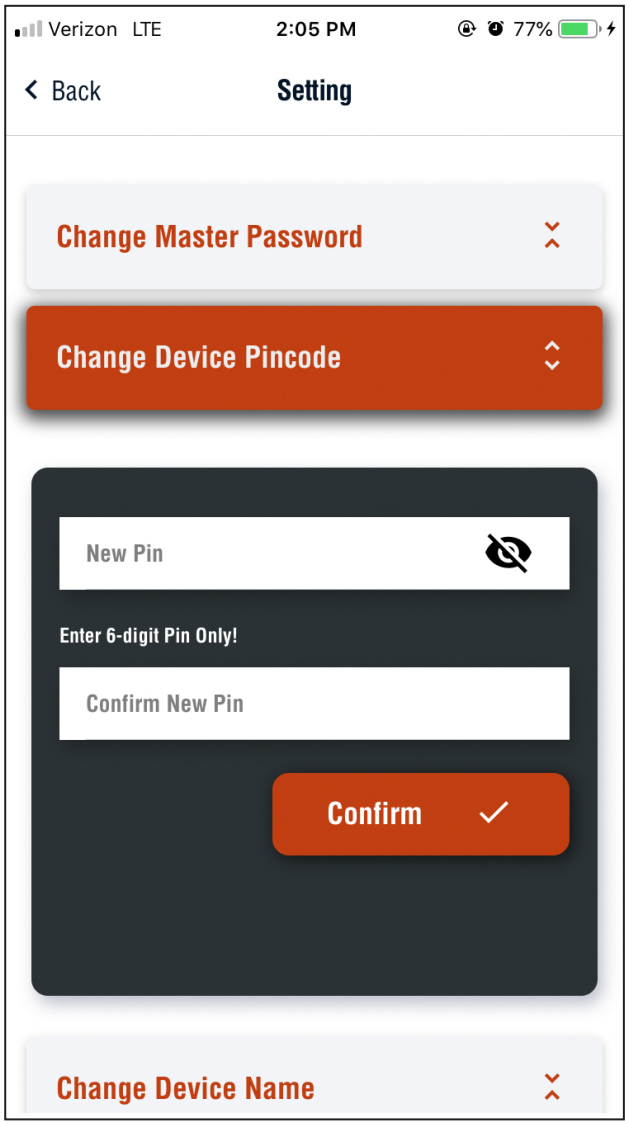
SECTION 8 - MOBILE APP USER CONFIGURATION

Change Master Password Screen



Master (or **User) Password is** required to access the Settings Panel. Choose the **Change Master Password** option to expand the form. Toggle **Show Password** to help verify the input is correct.

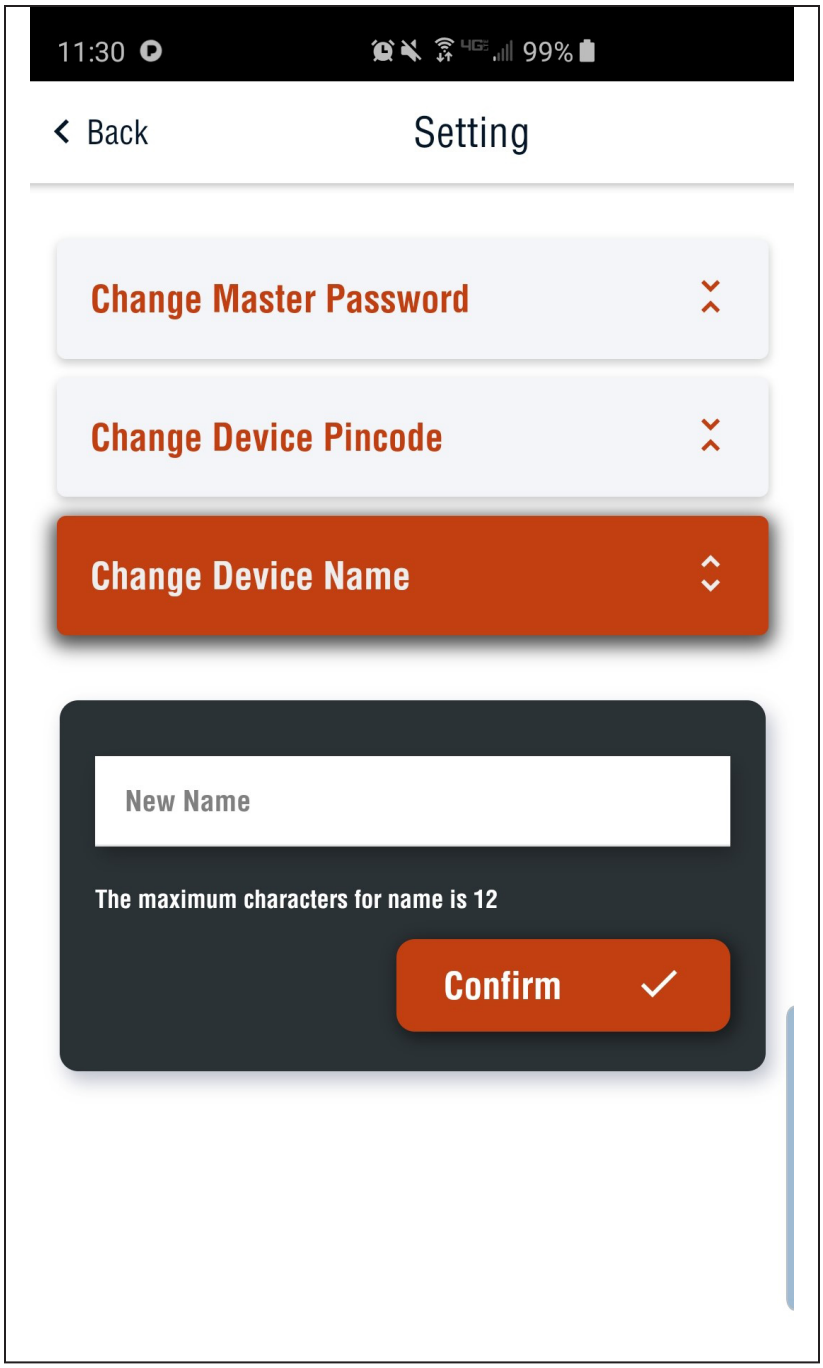
Change Device Pincode Screen



The **Device Pin code** is used to access the reel's main controls. The pin code must be a 6-digit number. If there are issues after the pin code is changed, please refer to the **Troubleshooting** section.

Choose the **Change Device Pincode** option to expand the form. Toggle **Show Pin code** to help verify the correct input.

Change Device Name

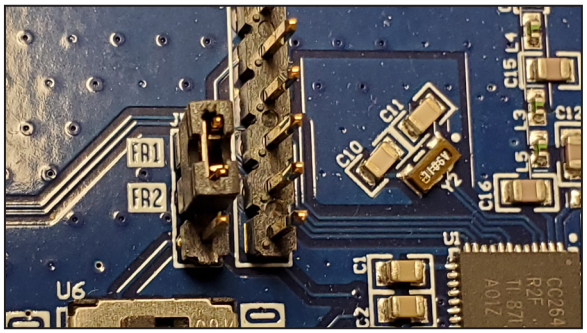


Select to open **Change Device Name** form. Enter the device's new name here. After tapping **Confirm**, this is the name that will display once the reel is reconnected.

SECTION 9 - TROUBLESHOOTING APP

Forgot User Password

1. Power down the reel and wait until the power indicator light goes off.
2. Open the cover. Jumper should be on **FR2.**
3. Put the jumper to **FR1** and **FR2** .
4. Power up the board.
5. Verify the password has been reset to the default password.
6. Replace the cover.
7. See **Section 8** on resetting the password.



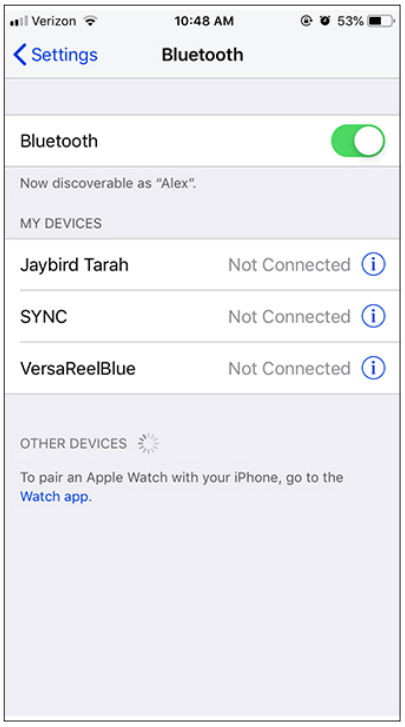
NOTE

An interruption in power to the reel does not cause the current password to reset back to the default password.

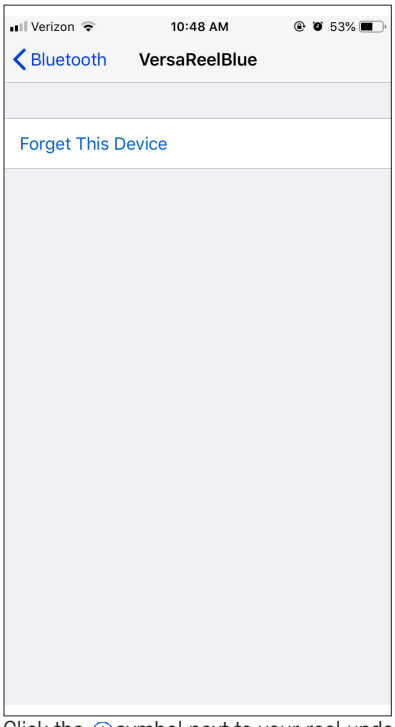
Reel control unresponsive after changing Pin code

The phone's memory regarding the device must be cleared.

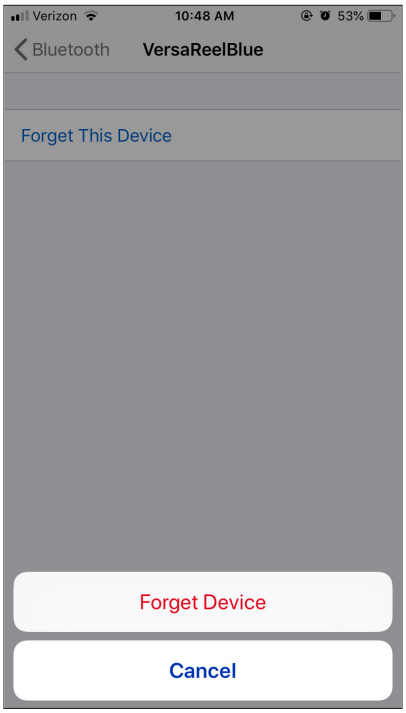
For IOS:



Go to Settings->Bluetooth.



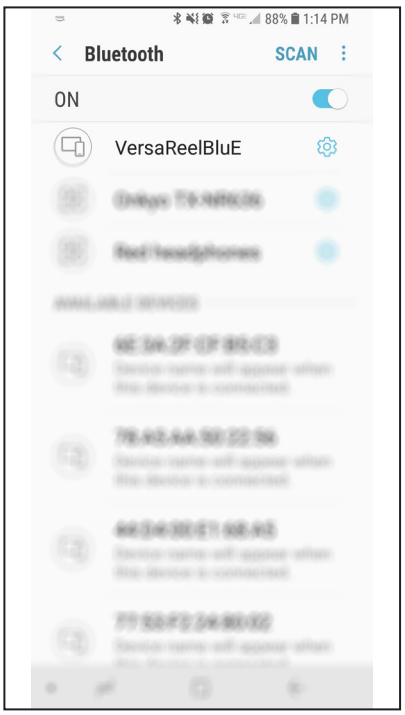
Click the ⓘ symbol next to your reel under **My Devices**. Select **Forget This Device**, and this will erase the device memory on the phone.



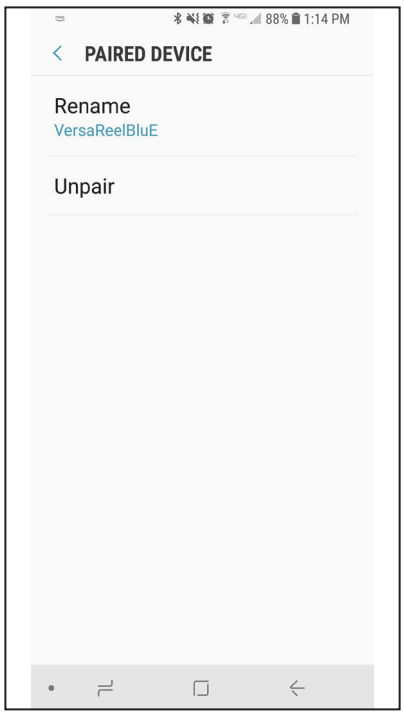
Select **Forget Device.** The next time you control the reel, you will have to input in a new pin code that you have assigned.

SECTION 9 - TROUBLESHOOTING APP

For Android:



Pull down the top screen, and then press and hold the Bluetooth icon. Tap the gear icon next to the VersaReel Blue.



Under the **Paired Device** screen, tap **Unpair** and this will erase the device memory of the phone. The next time you control a reel, you will have to input in a new pin code that you have assigned.

Unable to connect to reel

Disconnect Bluetooth from the phone's **Settings** screen. Turn off, leave off for 5 seconds, then turn Bluetooth back on.

Unable to find reel to control on Available Devices list

There is likely a connection error between the phone and the reel. To fix this issue:

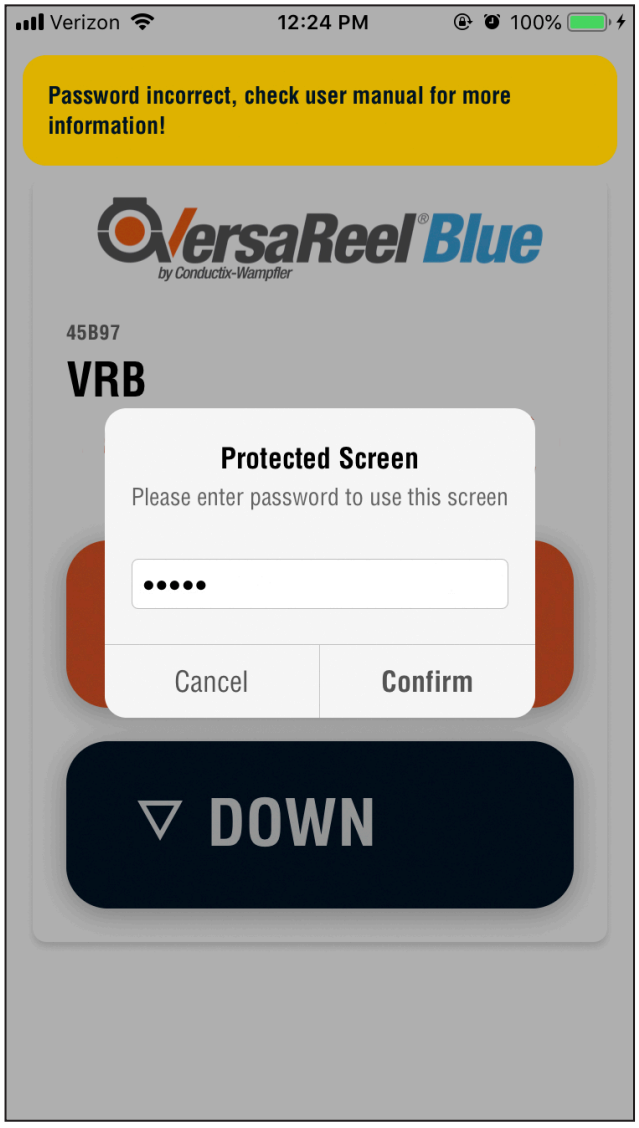
1. Power down the reel.
2. Wait one minute.
3. Power up the reel.

More than one user attempting to use VersaReel Blue at the same time

As a safety feature, only one user can control the VersaReel Blue at a time; all others will not see it as available to connect to. To make the reel available for another user, the controlling user must either disconnect from it manually or turn the screen on the phone/tablet off.

SECTION 9 - TROUBLESHOOTING APP

Incorrect Password Screen



An incorrect password will trigger an error message at the top of the screen. If user has forgotten password, refer to **Forgot User Password** at the beginning of this section.

Reel Damage Warning Screen

At this point, the reel is set up and ready to use. If the user presses either button more than 3 times (at least 0.5 seconds each time), a reel damage warning appears. The user must press **Got It!** to continue using the reel.

WARNING

Ensure that all power is disconnected from the reel prior to performing any tasks in Section 10.

CAUTION

Reel weight requires care to be taken when removing reel from base.

Quick Mount Base

Tools needed: 7/16" wrench, 7/16" socket wrench, ratchet, T30 Torx wrench.

1. Remove quick mount base from reel by removing 1/4" hardware that attaches the frame's legs to the base. **The entire weight of the reel must be supported during this process.** (**Figure 10-1**)
2. Properly secure the new base to the mounting structure. (**Figure 10-2**)
3. Once the quick mount base is secured to the mounting structure, push up and then slide the frame legs into the flange tabs on the base to connect the reel to the base. (**Figure 10-3).** While supporting the reel's weight, align the frame holes with the base holes and insert the 1/4" hardware on both sides and tighten to 6 ft-lbs. (**Figure 10-3A**)

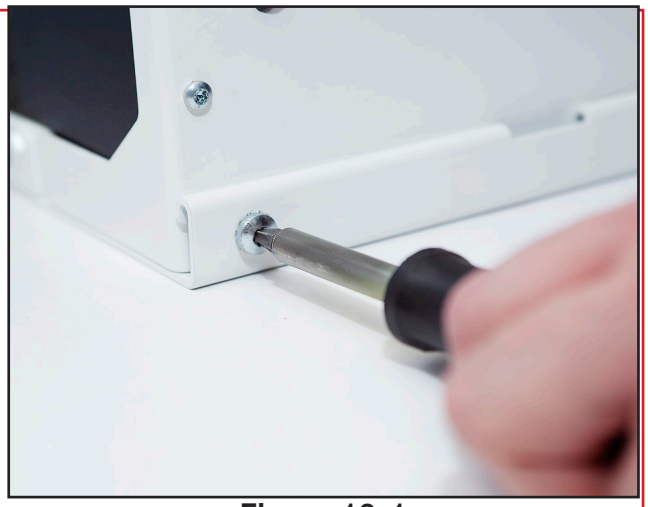


Figure 10-1

Figure 10-2

Figure 10-3

Figure 10-3A

Guide Arm

Tools needed: Torx head screwdriver.

1. Remove ball stop. Remove guide arm (**Figure 10-4**).
2. Remove any cable end accessory and GFCI if installed on cable. See cable end accessory and GFCI replacement instructions.
3. Install new guide arm by inserting cable through cable opening (**Figure 10-5**).
4. Re-attach arm to reel using the same screws and tighten down. Torque to 50 in.-lbs. (**Figure 10-4**).
5. Re-attach ball stop, cable accessory and GFCI if needed. See cable end accessory and GFCI replacement instructions.

Figure 10-4

Figure 10-5

Pivot Base

Tools needed: 9/16" and 7/16" wrench, 7/32" Allen wrench, 7/16" socket, ratchet, and torque wrench.

1. Remove the 1/4" hardware attaching the quick mount frame to the base (**See Figure 10-6**). **The entire weight of the reel must be supported during this process.** Align the four holes in the pivot base mounting plate to the holes in the quick mount base.
2. Insert the 3/8" flat screws from the bottom through both plates, attach lock nuts, and tighten to 20 ft-lbs. **See Figure 10-7.**
3. Attach and secure both bases to the mounting structure (**See Figure 10-8). Pivot base is for ceiling or table mounts only- NO wall mounting.**
4. Once quick mount base is securely mounted, push up and then slide the frame legs into the flange tabs on the base to connect the reel to the base (**See Figure 10-9).**
5. While supporting the reel's weight, align the frame holes with the base holes, insert 1/4" hardware and tighten to 6 ft-lbs. **See Figure 10-6.**

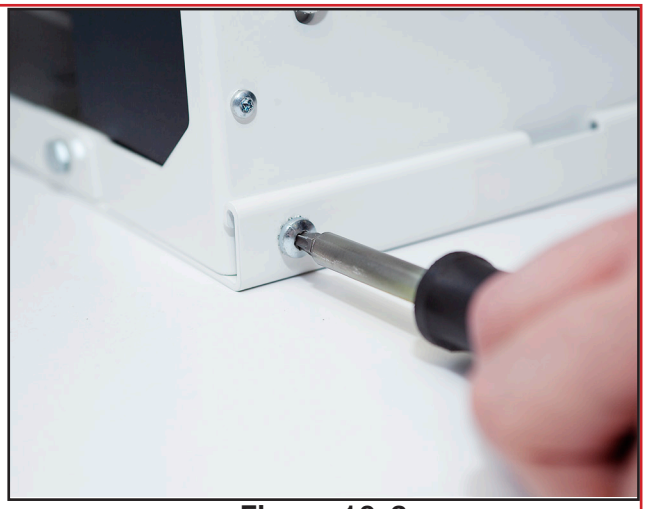


Figure 10-6

Figure 10-7

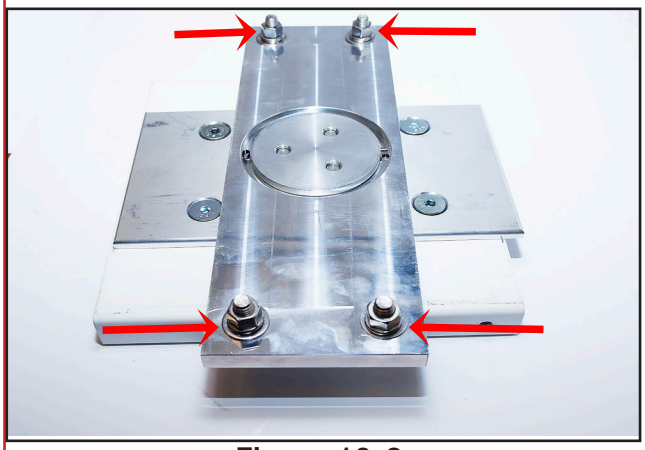


Figure 10-8

Figure 10-9

Figure 10-9A

Feeder Cord

Tools needed: T20 Torx head screwdriver.

1. Remove cover. See **Figure 10-10**.
2. Remove strain relief plate. See **Figure 10-11.**
3. Disconnect Wago connectors. See **Figure 10-12.**
4. Using the old feeder cord, cut and strip the new feeder wires to match the old feeder cord. See **Figure 10-13**.
5. Install new feeder cord into strain relief reusing the strain relief plate.
6. Connect feeder cord to Wago connectors.
7. Re-attach the cover and make sure no wires are pinched or bound under the cover. See **Figure 10-11**.

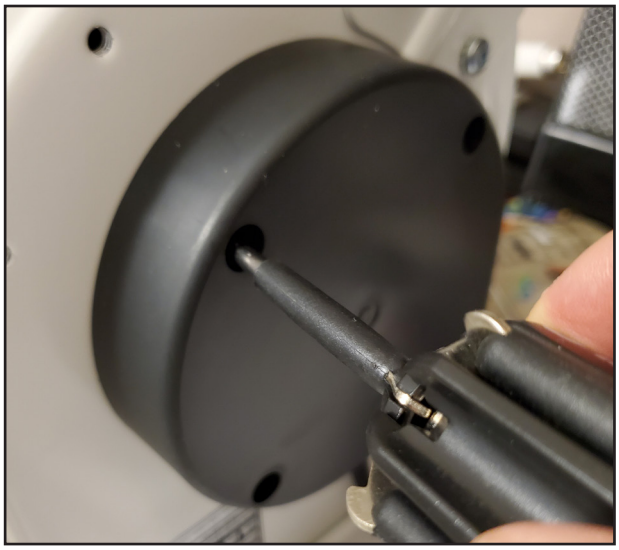


Figure 10-10

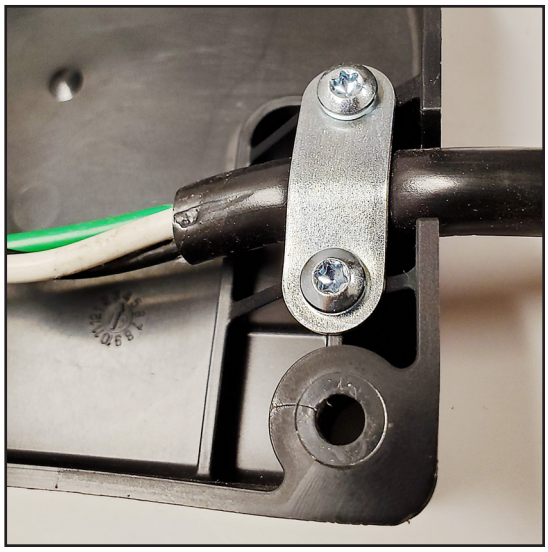


Figure 10-11

Figure 10-12

Figure 10-13

Ball Stop

Tools needed: Phillips screwdriver.

1. Keep reel from spinning by releasing button.
2. Attach new ball stop on cable in desired location. **Figure 10-14** shows 12AWG cable and a donut-style ball clamp; and **Figure 10-15** shows16AWG cable with clamp-style.

   A. Remove screws completely to replace ball stop.

   B. Loosen and move ball stop along cable to adjust hanging length.

Figure 10-14

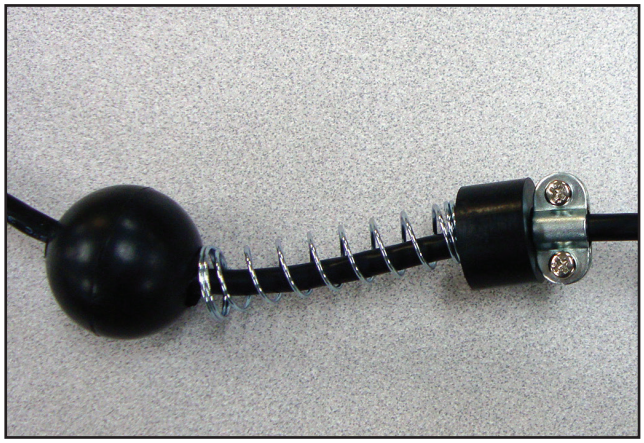


Figure 10-15

Fuse Replacement

1. Remove the reel cover by lifting up and over the reel frame (see **Figure 10-16**).
2. Remove old fuse (see **Figure 10-16**) and replace with a new one.

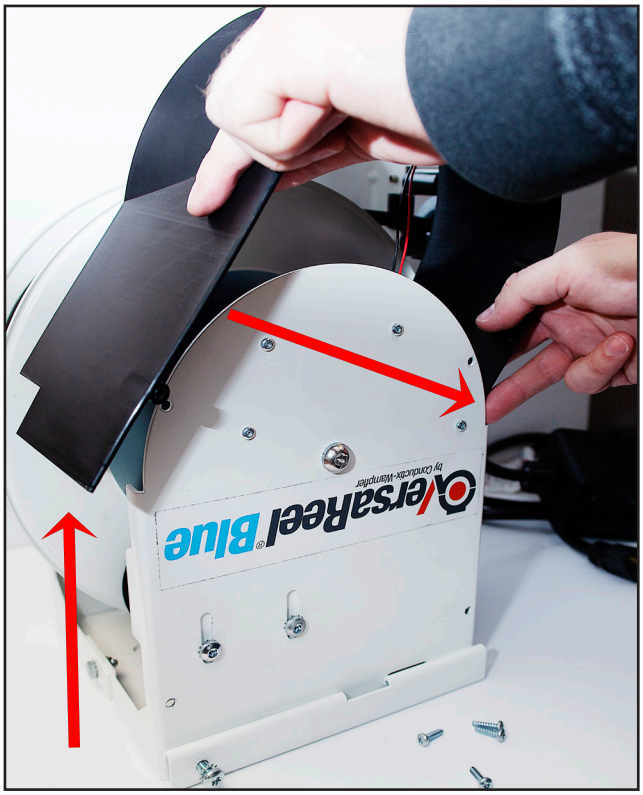


Figure 10-16

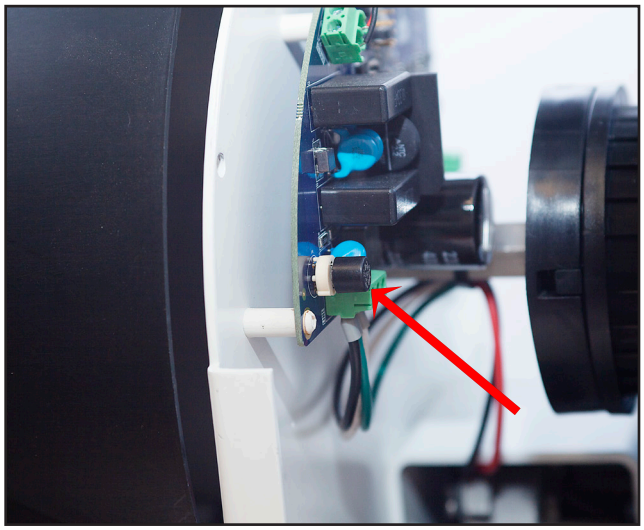


Figure 10-17

Ground Fault Interrupter (GFCI)

Tools needed: Phillips screwdriver.

1. Remove existing GFCI by removing each end cover. See **Figure 10-18.**
2. On both sides, remove strain relief bracket, cable gasket and disconnect wires from connectors. See **Figure 10-19.**
3. Install new GFCI from cable accessory in the same location as the old GFCI. See **Figure 10-20.**
4. Install cable gaskets to both sections of cable before connecting the new GFCI. See **Figure 10-19.**
5. Connect wires to connector on both ends and install strain relief. See **Figure 10-19.**
   - White wire to silver screw.
   - Green wire to green screw.
   - Black wire to brass screw.
6. Re-attach GFCI covers. Make sure gasket has proper placement in case. See **Figure 10-19.**

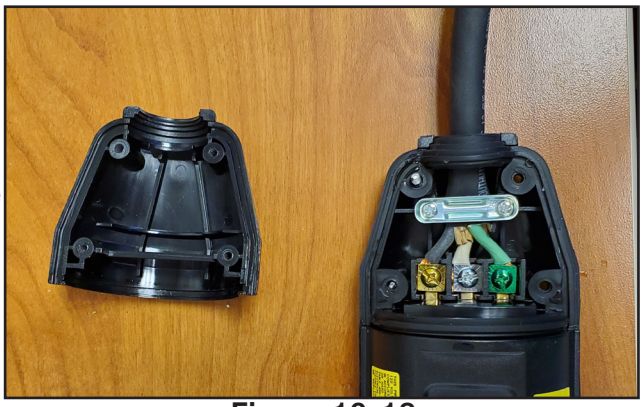


Figure 10-18

NOTE

- Make sure GFCI is installed in correct orientation of the “Line” and “Load” labeled on GFCI: “Line” towards the spool side and “Load” towards the end accessory side
- Refer to instructions when attaching cable end accessories

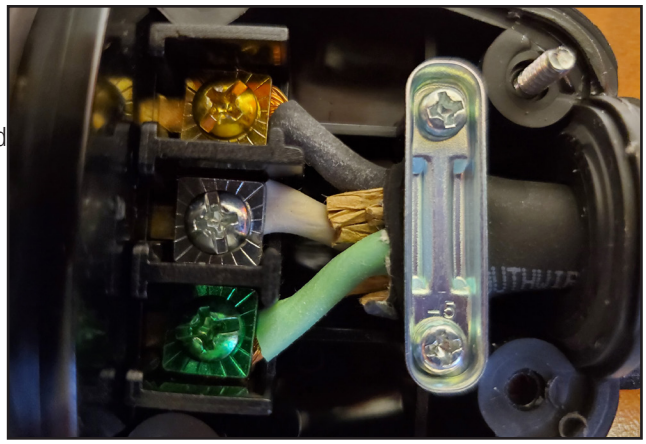


Figure 10-19

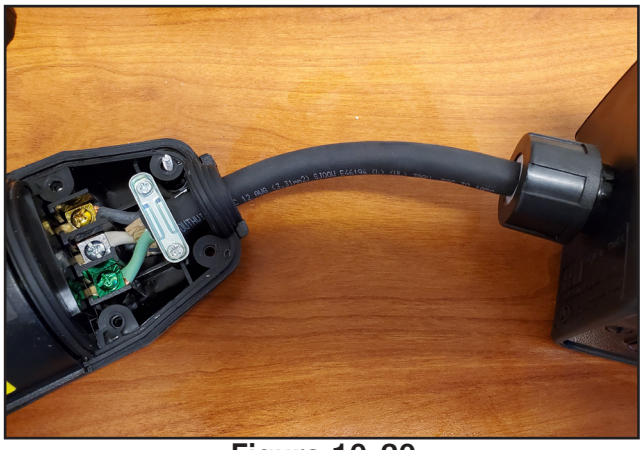


Figure 10-20

SECTION 11 - TROUBLESHOOTING MECHANICAL

PROBLEM	POSSIBLE CAUSE	SOLUTION
Reel will not retract cable but has some tension	• Improper cable or cable length installed • Cable guide adjustment	• Install correct cable type and length • Check guide alignment
Cable wraps improperly (uneven wrapping, wraps above or jumps flange)	• Reel mounting not level • Cable guide out of adjustment • Improper cable or cable length installed	• Mount reel on level surface • Maintain steady retraction rate • Properly adjust cable guide • Install correct cable type and length
Cable twisting or knotting	• Reel mounted in improper orientation • Improperly installed cable • Cable rubbing on or bending around fixed object • Inadequate anchoring of cable	• See cable installation section in maintenance manual • Check roller guide for function and cable pay out path
Open or intermittent circuit	• Inadequate wiring or feeding circuit • Loss of brush contact to slip ring • Cable defective • Cable guide out of adjustment • Dirt or contaminants on slip ring	• Check all termination points • Check brush wear, spring tension and, alignment • Perform continuity check on cable at termination points
Circuit arcing	• Amp or voltage above rating of reel • Excessive carbon dust accumulation • Loss of brush to ring contact	• Clean dust from inside slip ring • Replace brush assembly
Reel motor not responding	• Make sure power is connected • Check to see if belt is broken or is unable to function • Check to see if fuse is blown	• Contact Conductix-Wampfler
Cable reel is back winding	• Cable is paid out too far	• Do not overextend cable

FCC COMPLIANCE

FCC: ID: 2ASM6-xxxxxx

IC: yyyyy-xxxxxx

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

1. This device may not cause harmful interference, and

2. This device must accept any interference received, including interference that may cause undesired operation.

Changes or modifications made by the user and not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help

This device complies with Industry Canada License-exempt RSS standard(s). Operation is subject to the following two conditions:

1. This device may not cause interference, and

2. This device must accept any interference, including interference that may cause undesired operation of the device.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes:

1. l'appareil ne doit pas produire de brouillage, et

2. l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

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NOTES

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USA / LATIN AMERICA
10102 F Street
Omaha, NE 68127

Customer Support
Phone +1-800-521-4888

Phone +1-402-339-9300
Fax +1-402-339-9627

info.us@conductix.com
latinamerica@conductix.com

CANADA
1435 Norjohn Court
Unit 5
Burlington, ON L7L 0E6

Customer Support
Phone +1-800-667-2487

Phone +1-450-565-9900
Fax +1-450-951-8591

info.ca@conductix.com

MÉXICO
Calle Treviño 983-C
Zona Centro
Apodaca, NL México 66600

Customer Support
Phone (+52 81) 1090 9519
(+52 81) 1090 9025
(+52 81) 1090 9013

Fax (+52 81) 1090 9014

info.mx@conductix.com

BRAZIL
Rua Luiz Pionti, 110
Vila Progresso
Itu, São Paulo, Brasil
CEP: 13313-534
Customer Support
Phone (+55 11) 4813 7330

Fax (+55 11) 4813 7357

info.br@conductix.com

Contact us for our Global Sales Offices