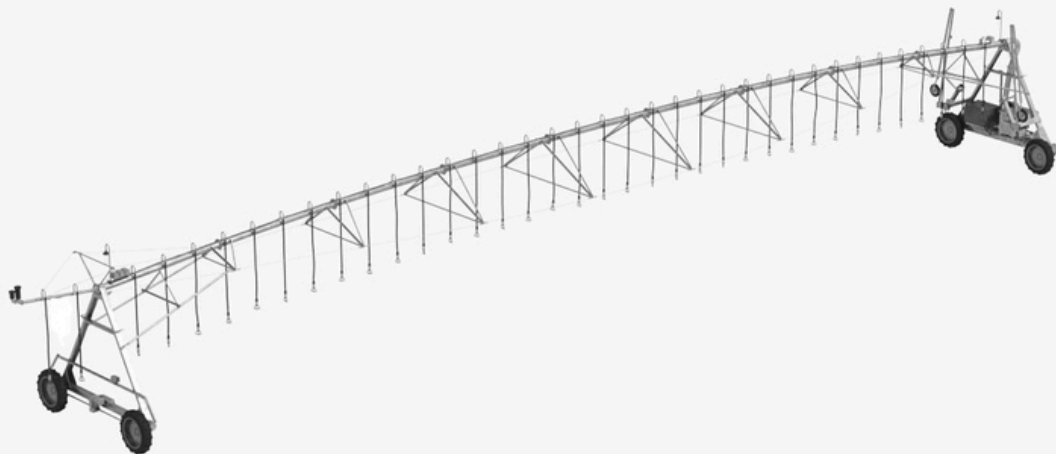


FarmHQ LINEAR INSTALLATION



www.farmhq.com

June 2024 • Version 1.0

TC-3 REEL INSTALLATION



⚠ WARNING ⚠ -DO NOT INSTALL WHILE YOUR EQUIPMENT IS RUNNING. FAILURE TO COMPLY MAY CAUSE INJURY OR DEATH.

TOOLS YOU WILL NEED

- Metric Allen Wrenches
- Crescent Wrench
- Wire Strippers
- Crimpers
- Open End Wrench Set
- Teflon Tape

CONTACT US AT

- support@farmhq.com
- +1 360-818-2632

FARMHQ APP

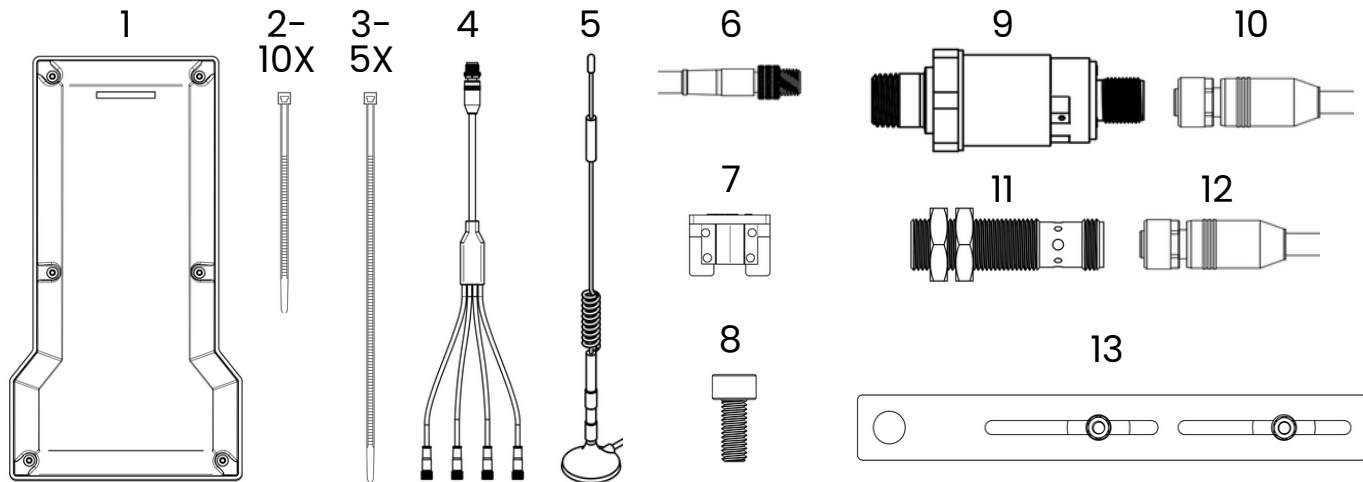


SUPPORT

- If you have any trouble during install, reference the user manual at **FarmHQ.com/support**

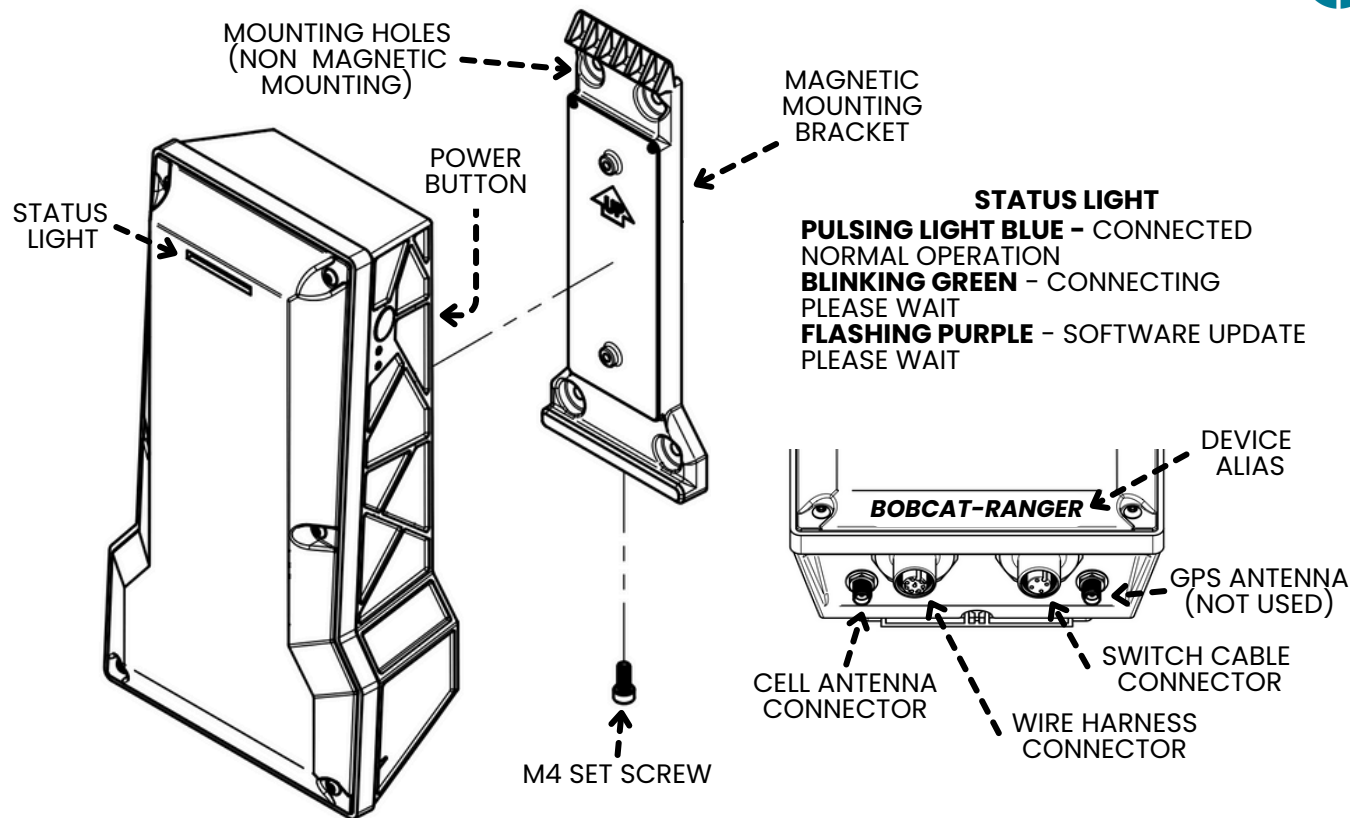


INSTALLATION HARDWARE

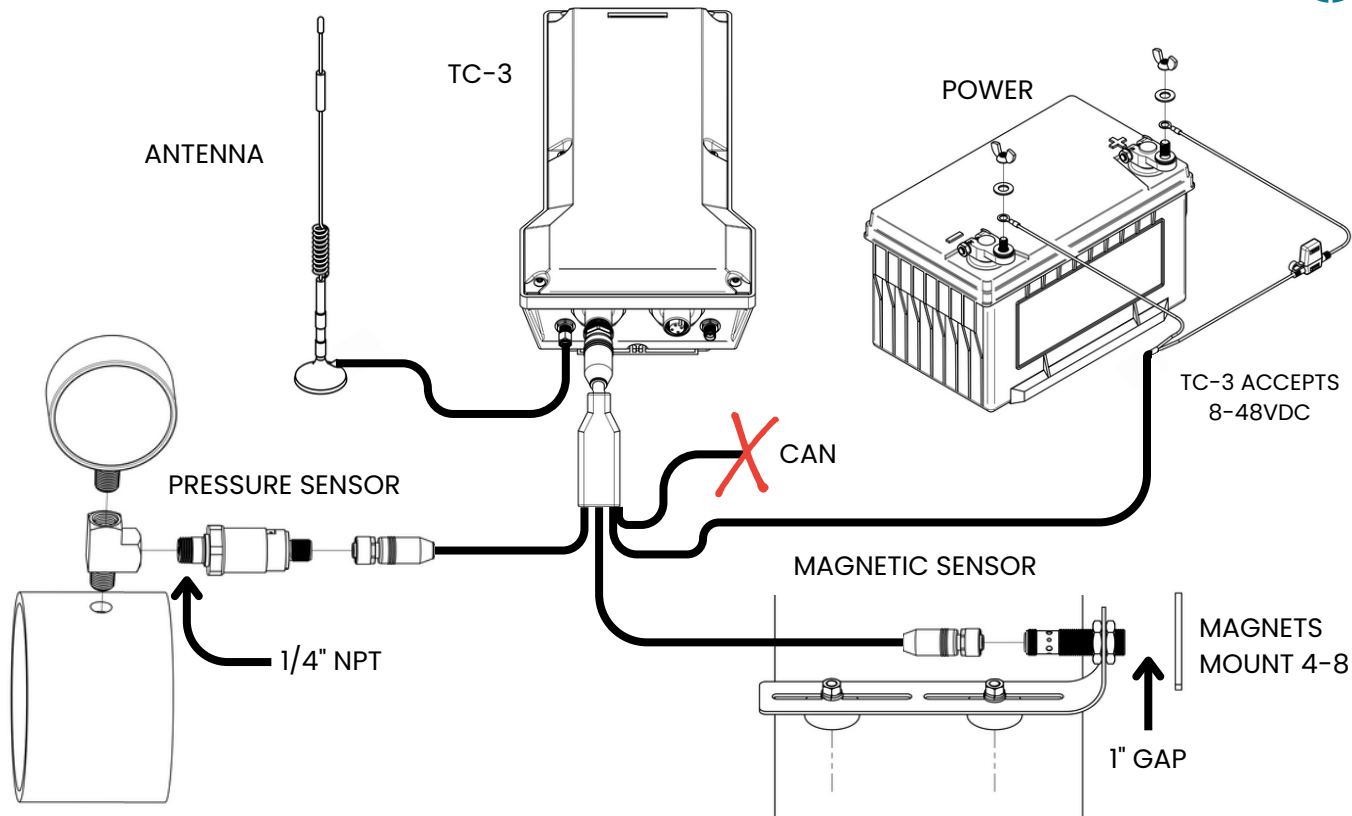


- | | |
|------------------------|---------------------------------|
| 1. TC-3 | 9. PRESSURE SENSOR |
| 2. 6" CABLE TIES | 10. PRESSURE SENSOR CABLE (15') |
| 3. 11" CABLE TIES | 11. MAGNETIC SENSOR |
| 4. TC-3 WIRE HARNESS | 12. MAGNETIC SENSOR CABLE (15') |
| 5. ANTENNA | 13. MAGNETIC SENSOR BRACKET |
| 6. 3M POWER CABLE | 14. SENSOR MAGNETS |
| 7. SPARE 5A BLADE FUSE | 15. 1/4" NPT BRASS STREET TEE |
| 8. M4 SET SCREW | |

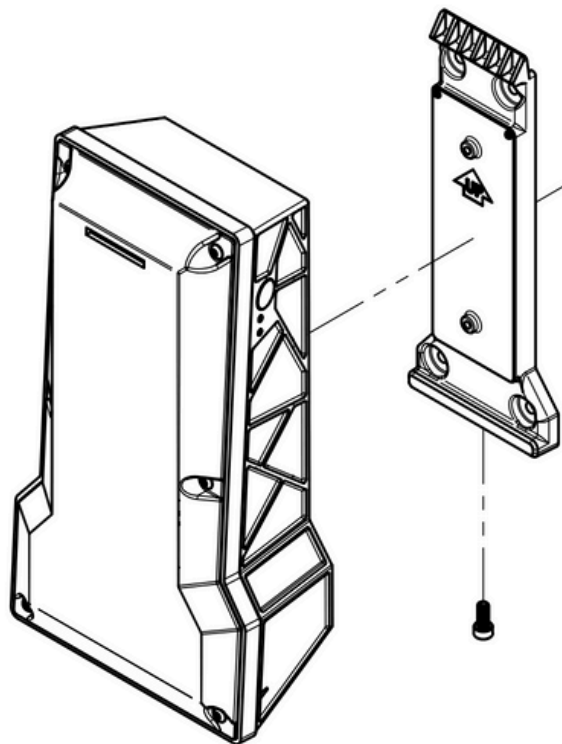
DEVICE OVERVIEW



INSTALLATION OVERVIEW

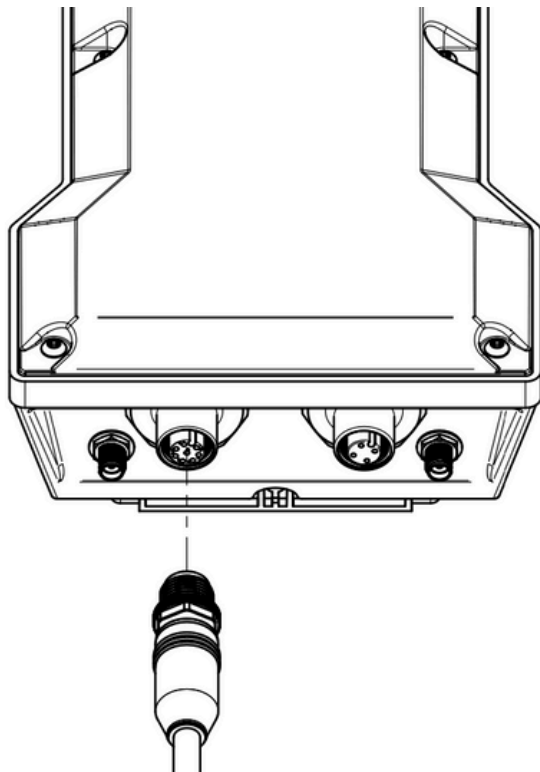


1. MOUNT YOUR DEVICE

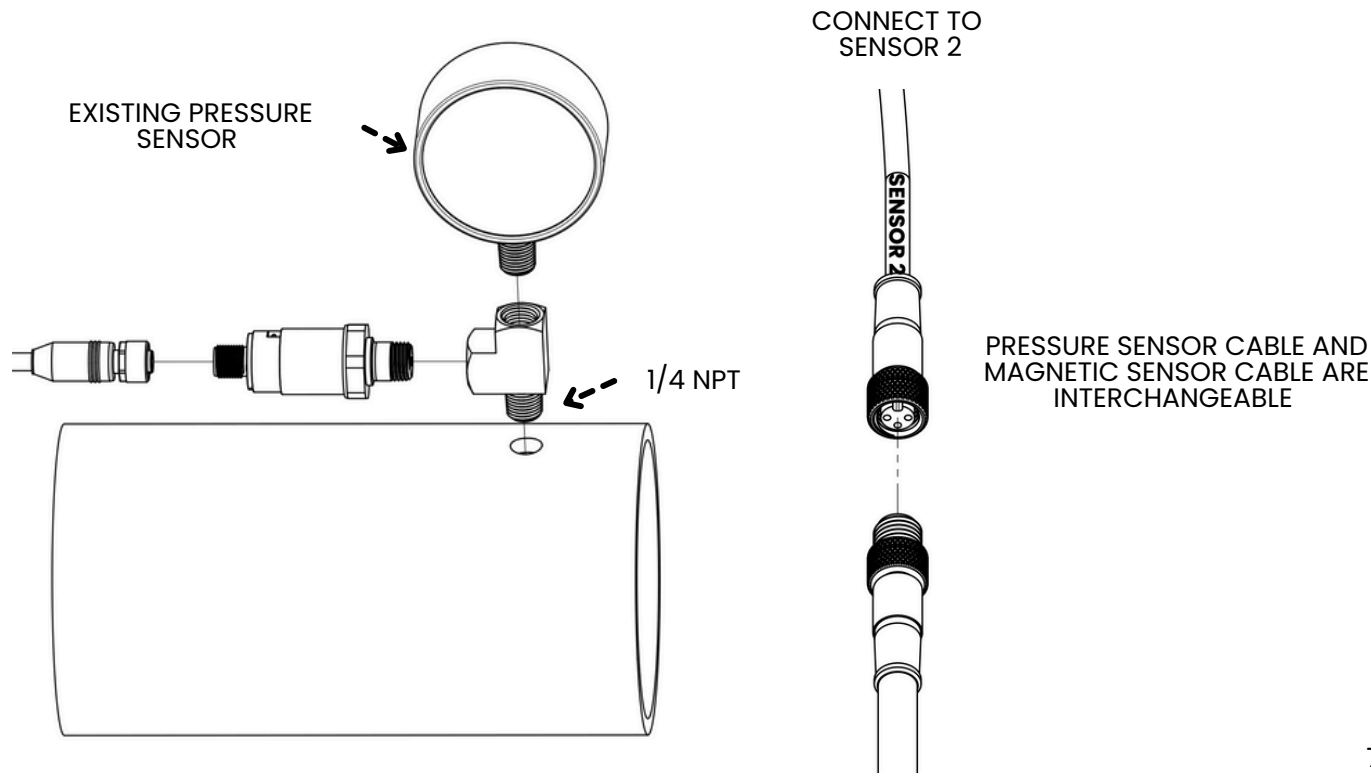


- MOUNT YOUR DEVICE TO ANY STEEL SURFACE USING THE MAGNETS ON THE BACK.
- MINIMIZE VIBRATION OF THE DEVICE
- USE THE MOUNTING HOLES TO MOUNT THE BRACKET IF THE MAGNETS DO NOT WORK TO SECURE THE DEVICE.

2. CONNECT WIRE HARNESS



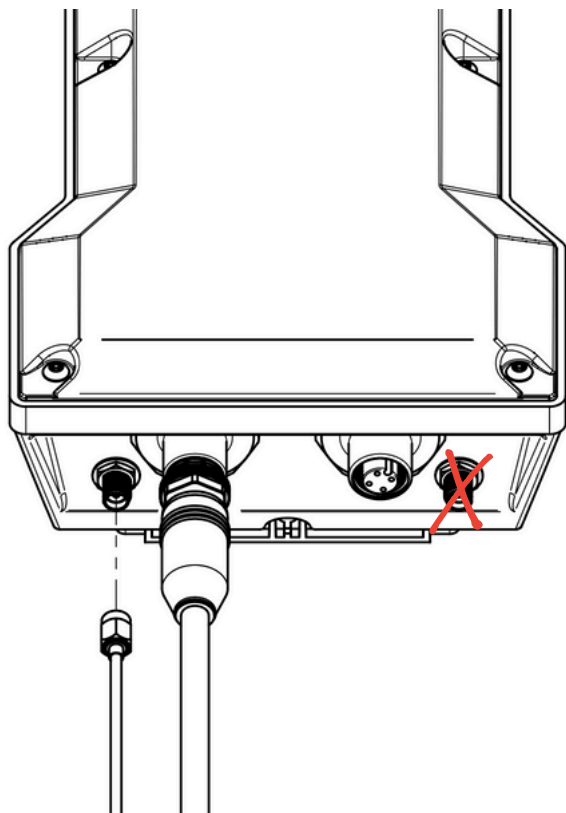
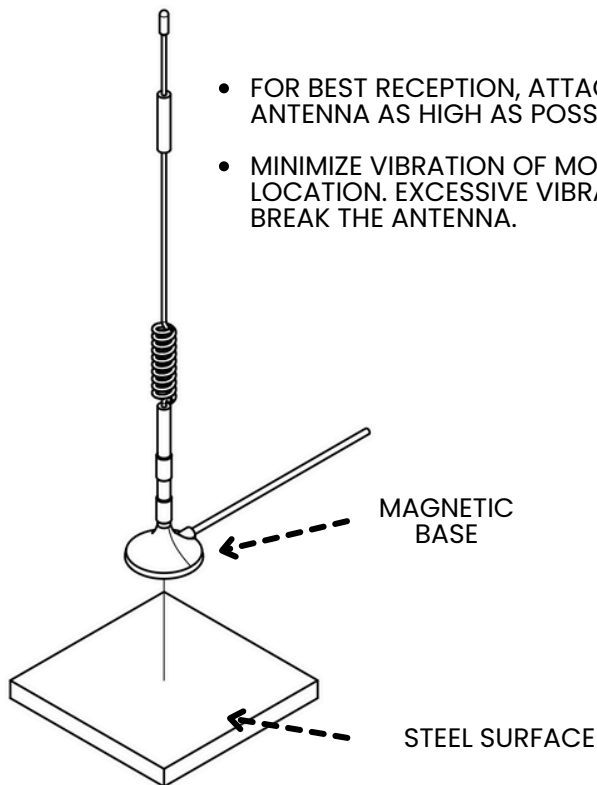
3. CONNECT PRESSURE SENSOR



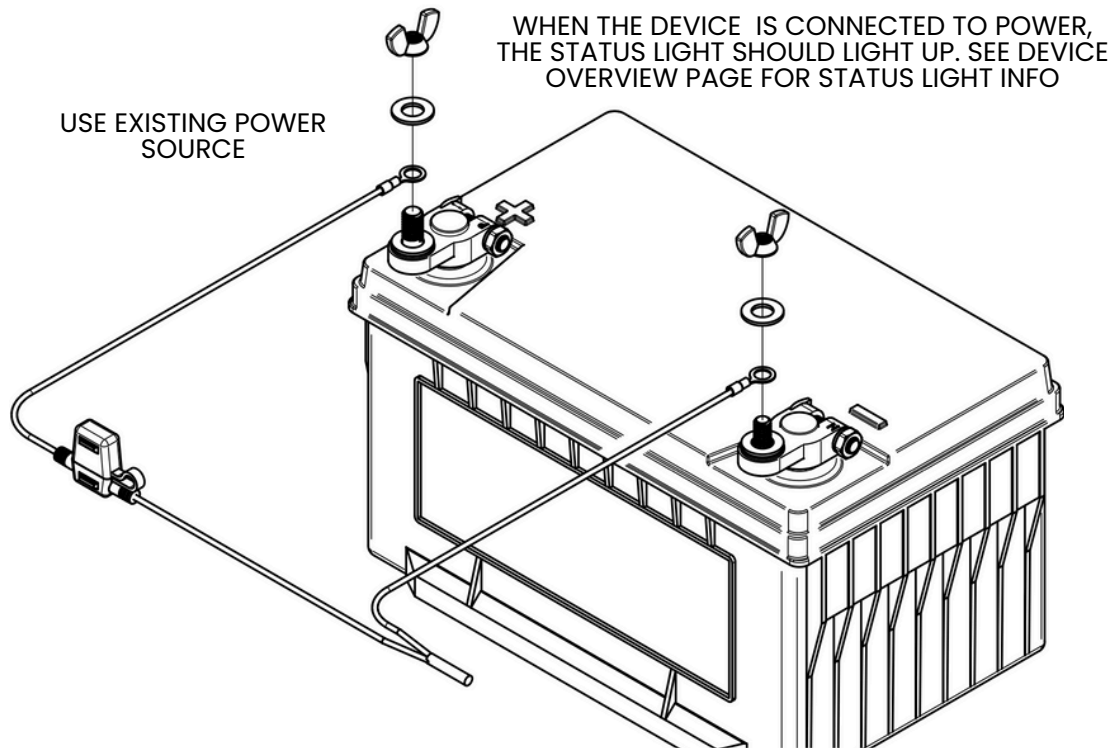
4. CONNECT THE ANTENNA



- FOR BEST RECEPTION, ATTACH ANTENNA AS HIGH AS POSSIBLE.
- MINIMIZE VIBRATION OF MOUNTING LOCATION. EXCESSIVE VIBRATION WILL BREAK THE ANTENNA.



5. CONNECT TO POWER



THE TC-3
ACCEPTS
8-48VDC

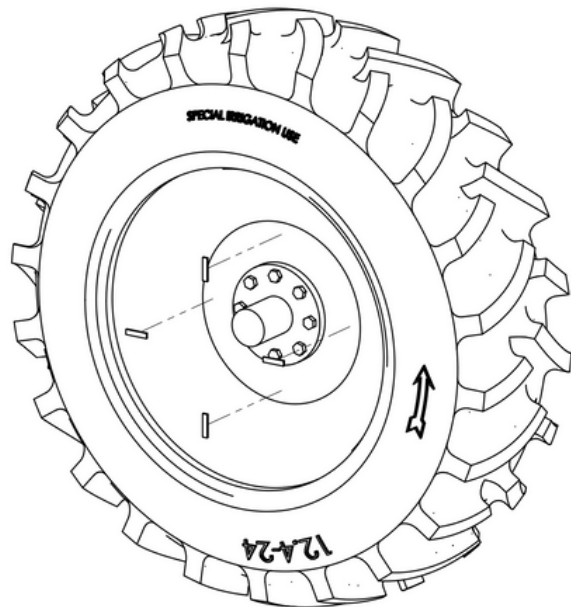


IF NO POWER IS AVAILABLE, FarmHQ OFFERS A SOLAR CHARGING OPTION OR YOU CAN FIND RECOMMENDATIONS AT **FarmHQ.com/support**

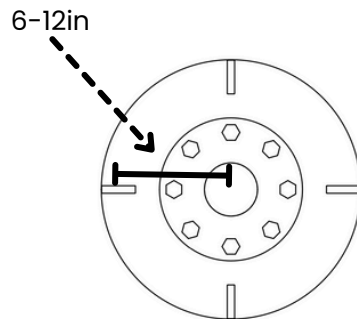
6. INSTALL THE MAGNETS



PLACE 4-8 MAGNETS EVENLY
ON THE WHEEL.



PLACE MAGNETS 6-12in (15-30 cm) FROM
THE AXIS OF THE WHEEL

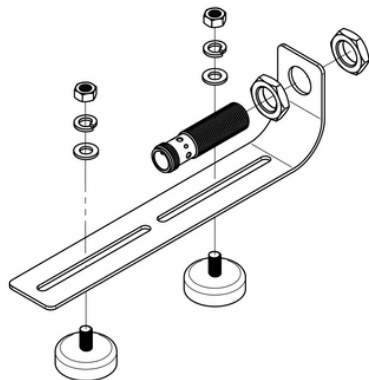


IF YOU ARE UNABLE TO MOUNT THE
MAGNETS DIRECTLY ON METAL USE
ADHESIVE TO ATTACH THE MAGNETS

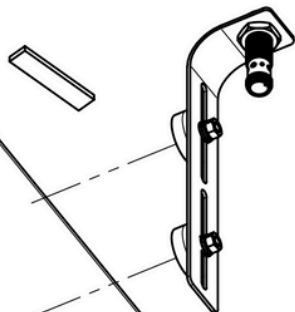
7. INSTALL MAGNETIC SENSOR



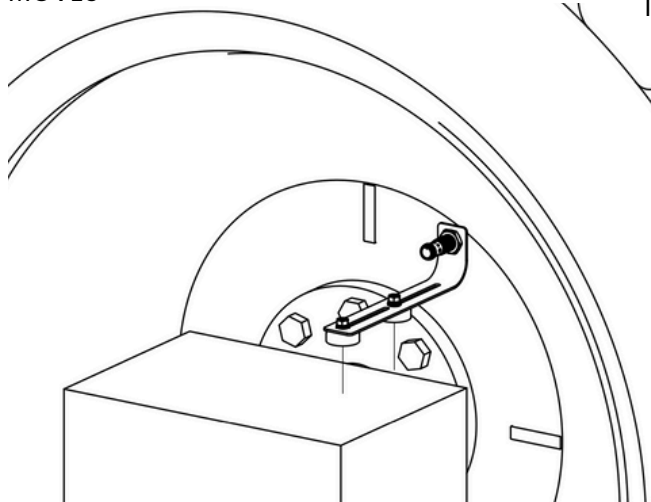
BEND BRACKET
TO DESIRED SHAPE



THE BRACKET IS
MAGNETIC, PLACE
IN THE DESIRED
LOCATION AND
TIGHTEN THE
MAGNET NUTS



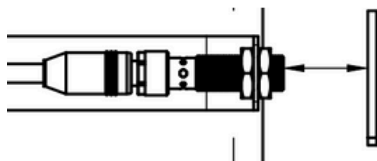
PLACE THE SENSOR SO THAT IT DOES NOT GET
KNOCKED OFF BY YOUR CROP AS THE LINEAR
MOVES



CONNECT
TO SENSOR 1



SET THE DISTANCE BETWEEN MAGNETS AND SENSOR TO 1in
(2.5cm). IF THE MAGNETS DO NOT STICK TO THE WHEEL, USE
SILICONE OR SIMILAR ADHESIVE TO ATTACH THE MAGNETS.



8. CONFIGURE YOUR LINEAR



A. DOWNLOAD THE FARMHQ APP.

B. CREATE AN ACCOUNT AND LOGIN.

C. CREATE OR JOIN A FARM ACCOUNT. IF A FARM ACCOUNT ALREADY EXISTS, USE A FARM JOIN CODE TO BE ADDED TO THE EXISTING FARM. SOMEONE WHO HAS ACCESS TO THE ACCOUNT CAN GENERATE ONE FOR YOU. FOR INFO ON HOW TO CREATE AND USE JOIN CODES GO TO TO OUR SUPPORT PAGE.

D. ADD THE DEVICE BY INPUTTING THE DEVICE ALIAS

E. FOLLOW THE PROMPTS TO CONFIGURE THE DEVICE AS A LINEAR MOVE

9. VERIFY CORRECT OPERATION



PLEASE DON'T SKIP THIS STEP. IF YOU DO NOT HAVE THE ABILITY TO RUN THE REEL AT THE TIME OF INSTALL MAKE SURE YOU VERIFY STEPS C AND D NEXT TIME THE REEL IS IN THE FIELD.

A. VERIFY MAGNETIC SENSOR FUNCTIONALITY.

WAVE A MAGNET IN FRONT OF THE MAGNETIC SENSOR ONCE PER SECOND FOR 10 SECONDS. CHECK THE STATUS OF THE DEVICE IN THE FARMHQ APP. YOU SHOULD SEE THE STATUS OF THE REEL CHANGE FROM REEL STOPPED TO EXTENDING. IF YOU DO NOT SEE THE REEL STATUS CHANGE, GO TO TROUBLESHOOTING.

B. VERIFY MAGNET PLACEMENT

THE FIRST TIME YOU EXTEND THE REEL, CHECK THE MAGNETS TO MAKE SURE THAT EVERY MAGNET PASSES IN FRONT OF THE MAGNETIC SENSOR. **INCORRECT MAGNET PLACEMENT AND SENSOR ALIGNMENT IS THE MOST COMMON PROBLEM WITH NEW INSTALLATIONS.**

C. VERIFY PRESSURE.

MAKE SURE THE APP IS REPORTING THE SAME PRESSURE AS THE GAUGE ON THE REEL.

D. VERIFY GPS LOCATION.

THE DEVICE SHOULD ACQUIRE A GPS SIGNAL AND SHOW UP ON THE STATUS MAP WITHIN FIVE MINUTES. IF YOU ARE INSTALLING INSIDE BUILDING IT MAY NOT GET GPS. LIKELY THE DEVICE WILL GET GPS SERVICE ONCE IT IS IN THE FIELD. THE DEVICE CANNOT BE INSTALLED INSIDE A METAL ENCLOSURE OR IT WILL NOT GET GPS.

HELP WITH THE APP



NAVIGATE TO OUR SUPPORT PAGE TO WATCH VIDEOS ON HOW TO USE OUR APP

ENABLE AUTOSTOP – PAIRING – FarmHQ AutoStop enables any Traveler, Linear, or Center Pivot to automatically shut down a pump or close a valve when the system stops moving or pressure loss is detected. To enable AutoStop, you must pair your sprinkler system to a FarmHQ-equipped pump or valve in the FarmHQ app.

AUTOSTOP DEFAULT AUTOMATIONS –

1. AUTOMATIC PUMP SHUTDOWN WHEN YOUR REEL FINISHES IRRIGATING YOUR FIELD
2. AUTOMATIC PUMP SHUTDOWN WHEN YOUR REEL STOPS PREMATURELY
3. AUTOMATIC PUMP SHUTDOWN WHEN YOUR PUMP OR REEL LOSES PRESSURE.

SETTING UP AUTOMATIONS – THE FARMHQ AUTOMATIONS ARE WHERE YOU SET UP ACTIONS YOU WANT TO HAPPEN AUTOMATICALLY. NAVIGATE HERE IF YOU WANT TO SET UP AUTOMATIC PUMP SHUTDOWNS FOR PUMPS THAT ARE NOT PAIRED WITH A REEL.

SETTING UP NOTIFICATIONS – FARMHQ CAN BE SET UP TO NOTIFY YOU WHEN THE STATE OF YOUR EQUIPMENT CHANGES, SUCH AS WHEN THE PRESSURE DROPS, OR WHEN THE REEL STOPS UNEXPECTEDLY. CLICK ON THE DEVICE THAT YOU WANT TO RECEIVE NOTIFICATIONS FOR, THEN CLICK ON "NOTIFICATIONS".

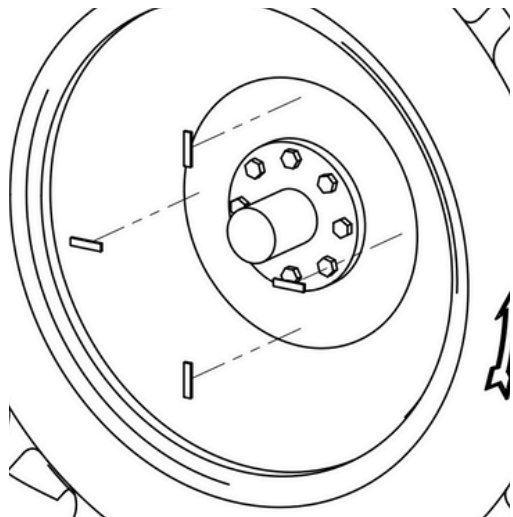
DEVICE LOCATION – IF YOU ARE INSTALLING ON A DEVICE THAT WILL NOT MOVE AND THE DEVICE DOES NOT GET A GOOD GPS LOCATION (INSIDE OF AN ELECTRIC PANEL) YOU CAN SET A PERMANENT LOCATION FOR THE DEVICE IN THE APP.

TROUBLESHOOTING – REEL SPEED OR DISTANCE



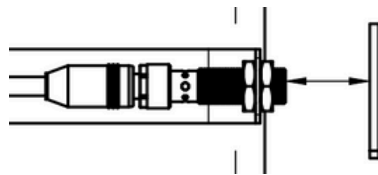
START TROUBLESHOOTING WITH BASIC CHECKS BEFORE COMING HERE

A. MAKE SURE THE MAGNETS ARE EVENLY SPACED ON THE WHEEL.

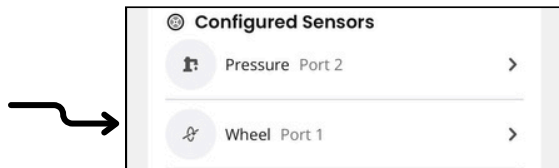


B. BEGIN TO RETRACT THE LINEAR. MAKE SURE THE MAGNETIC SENSOR PASSES IN FRONT OF EACH MAGNET. IF ANY OF YOUR MAGNETS MOVED AFTER INSTALL, USE SILICONE CAULK OR SIMILAR ADHESIVE TO ATTACH THE MAGNETS TO THE REEL.

C. CHECK THE DISTANCE BETWEEN THE MAGNETIC SENSOR AND THE MAGNETS. MAKE SURE IT IS SET TO 1IN (2.5CM)



D. CHECK THE SENSOR PORT. MAKE SURE THE CONFIGURATION MATCHES WHAT IS CONNECTED TO THE WIRE HARNESS.



E. CHECK THE WHEEL DIAMETER. MAKE SURE THE DIMENSIONS ARE ACCURATE. IF THE DIMENSIONS ARE OFF THIS CAN CAUSE LARGE VARIATIONS IN THE SPEED AND DIRECTION.

