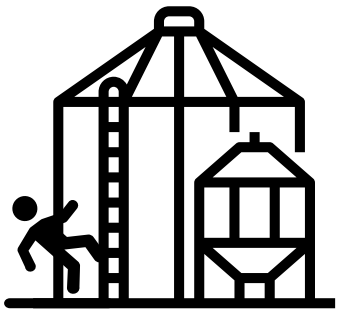
BIN-SENSE™

Single Cable Installation

These instructions are for installing a single Bin-Sense sensing cable in the center of a bin. If your bin is over 24’ in diameter and requires radius cables, please see the additional instructions included with roof rib brackets.

Important Safety Notes

The cable comes in a coiled loop. This loop is intended to allow you to easily carry the cable up the bin over your shoulder. When on the bin roof, secure parts and tools adequately to prevent them from sliding off the bin which can cause damage to equipment, the bin, or personal injury.



CAUTION Extreme care and caution must be used when climbing up a bin. Be sure to use approved safety procedures and materials such as ladders and a safety harness. When working above 1.2 metres, wear a safety harness or personal protective equipment. An approved tool belt must be worn to keep both hands free when climbing up and down a ladder.

Tools Required

You will need the following tools to install a Bin-Sense sensing cable:

- Cordless drill
- 3/8” nut driver bit
- 1 ½” hole saw
- Tape measure
- Side cutters

Included Parts

Included in the bag is one Bin-Sense sensing cable and a hardware kit. The hardware kit includes parts for attaching the cable head to the bin roof and securing the free end of the cable to the floor.

Single Cable Installation

You can find these instructions in video form on our YouTube channel. Search for Calian Agriculture on YouTube and look for our single cable installation video.

Installation at the Top of the Bin

1. Select a location for the cable between two ribs near the centre of the bin. Choose a location where the cable will not be directly in the grain stream of an auger or conveyer.
2. Measure out the location where the ribs are 5” apart and mark the 2 ½” point. Ensure the cable head fits between the ribs when centered over the marked point.
3. Use the hole saw to make a 1 ½” hole at the marked point. Angle the hole saw so that it is perpendicular to the roof of the bin.
4. Use the side cutters to remove the zip ties from the cable.
5. Feed the cable through the hole and into the bin. Avoid over-bending or kinking the cable. Use caution when passing the nodes of moisture cables through the hole.
6. Set the cable head flat on the bin roof so that the green plastic guide is lined up with the hole in the roof. Note the marking on the cable head for which side is up. The black link cable should point down the roof.
7. Install the four 1 ½” long self-tapping screws through the holes in the cable head to secure the cable to the bin roof.
8. Connect the black link cable to a remote or master unit. For use with Bin-Sense Direct, connect a link cable to the sensing cable and run it to the bottom of the bin for easy access. Visit our YouTube channel for more information on getting everything connected.

Installation at the Bottom of the Bin

1. Inside the bin, line up the floor anchor and ring on the floor or hopper directly below the end of the cable.
2. For bins with a metal floor or hopper, use the ¾” long self-tapping screws to secure the anchor in place. For concrete floors, use a 3/16” SDS bit to pre-drill holes, and then use the included tapcon screws to attach the anchor to the floor. For wood floors, use 2” long wood screws if you have them available or use the included self-tapping screws.
3. Use the included twine and tie one end to the quick-link at the end of the cable and the other end to the ring on the floor. The twine should not be pulled tight, but snug enough to keep the cable in place when the bin is filled. Twine is used as it breaks first under stress and prevents damage to the cable or bin roof.
4. If multiple radius cables are installed in the bin, they can all be connected to the one central anchor point. Leave enough slack in the twine of the radius cables so that cables will naturally be pushed into place when the bin is filled with grain. Alternatively, an anchor point can be installed for each cable.