

Bin-Sense PDR/SDR Hanging Cable Installation

1.1 Cable Arrangement

Sensing Cable:

- The PDR/SDR hanging cable comes out of the package in a coiled loop. (figure 1) This loop is intended to be your shoulder strap to make it easier to carry up the ladder to the installation point. When the installation point has been chosen, secure parts and equipment adequately to avoid potential damage to equipment, the bin, or personal injury. Once the PDR/SDR hanging cable is properly installed as detailed below, remove the securing cable tie from the short connector cable and plug in as required.
- Accessories needed for installing sensing cables are:
 - ✓ Custom V-Bolt and Nylon Locking Nuts
 - ✓ Roof Hanging Support (not included)



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.

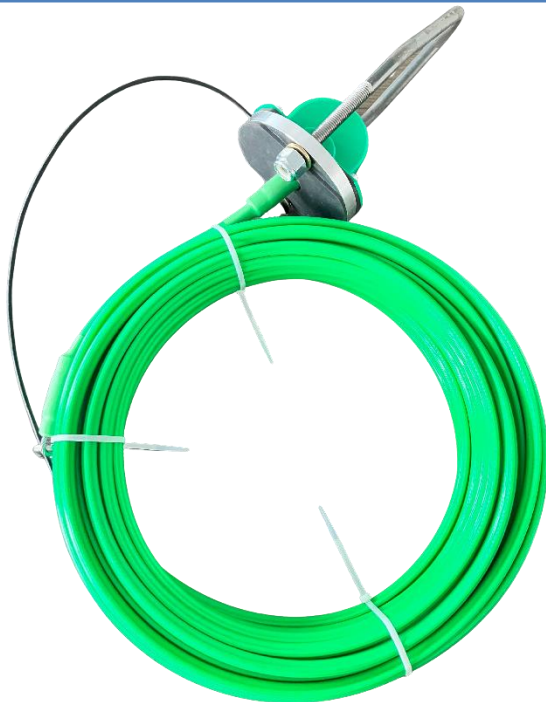


Figure 1 – Sensing Cable Coil



PDR/SDR Hanging Cable, Cap and V-Bolt

1.2 Installing PDR/SDR Hanging Cable in Bin or Structure

1. Installation location should be based on the *PDR/SDR Installation Diagram* mapping included with your Bin-Sense PDR/SDR Hanging Cable order.
2. Prepare a location for the Cable that will not be directly in the grain stream of an auger or conveyor.
3. Install a hanging support fastener from a bin truss or beam. Typical installation calls for an eye nut to be drilled and bolted to the bin truss or beam. Please refer to the included PDR/SDR Hanging Cable Eyebolt Support Manual procedures. (*Manual # 700025*) (*Figure 2*)
4. Feed the supplied custom V-Bolt through the eye nut installed in the beam or truss.
5. Position the PRD/SDR Hanging Cable Head so that the custom V-Bolt fits into the corresponding through holes on the Hanging Cable Head Assembly. *The direction of the sensor connector cable is generic and will find level based on the V-Bolt to eye nut combination.*
6. Install one 3/8" nylon locking nut on each side of the custom V-Bolt. Tighten a min. of 4 treads past the end of the V-Bolt and until a level PDR/SDR Cable Head assembly is obtained. (*Figure 3*) Be sure to not over tighten the bolts as to where the PDR/SDR Cable Head Assembly could come into contact with the beam or truss under normal conditions, as this could damage the assembly.
7. Connect the female end of the Link Cable to the male end of the PDR/SDR hanging cable. Install the Link Cable along the truss or beam to the

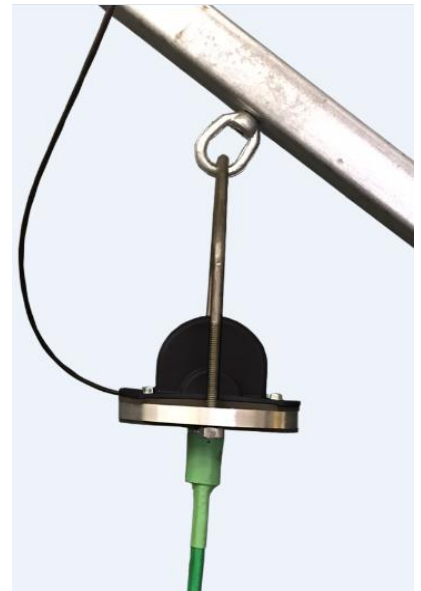


Figure 2
(typical mounting installation)

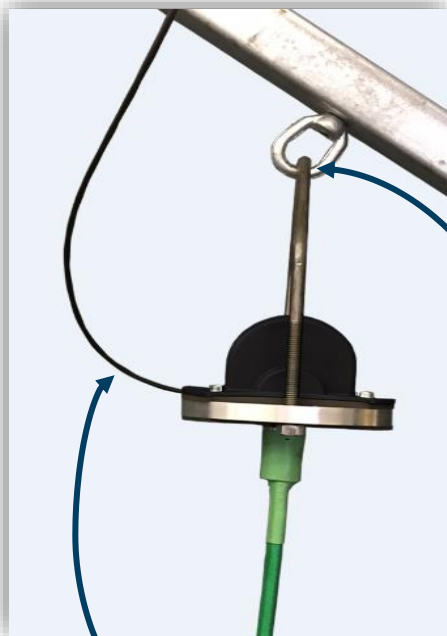


Figure 3

desired Remote/Master unit location. Use the provided screws and clips to secure the link cable, ensuring ample slack is provided on all connectors and link cables. This will allow for movement and flexibility of the PDR/SDR hanging cable head assembly. For use with Bin-Sense Direct use the Link Cable as a Drop Cable to extend to the ground.

8. The PDR/SDR Hanging Cable should be fastened to the floor via the quick connector chain link.
9. Multiple cable bins can connect to one central fastening point. If you choose to use this method you can mount a floor anchor in the middle of the bin and leave enough slack in all the ropes that when the grain fills the bin it will naturally push the cables out to their desired locations.

Side View of Correct Installation



Link Cable Slack

Front View of Correct Installation



Forged Shoulder Eyebolt or EyeNut

WARNING!

Do not install Eynut or Eyebolts with the eye mounted perpendicular to the truss or beam. Eyebolt may not support the PDR/SDR Cable load, causing an eyebolt failure.

