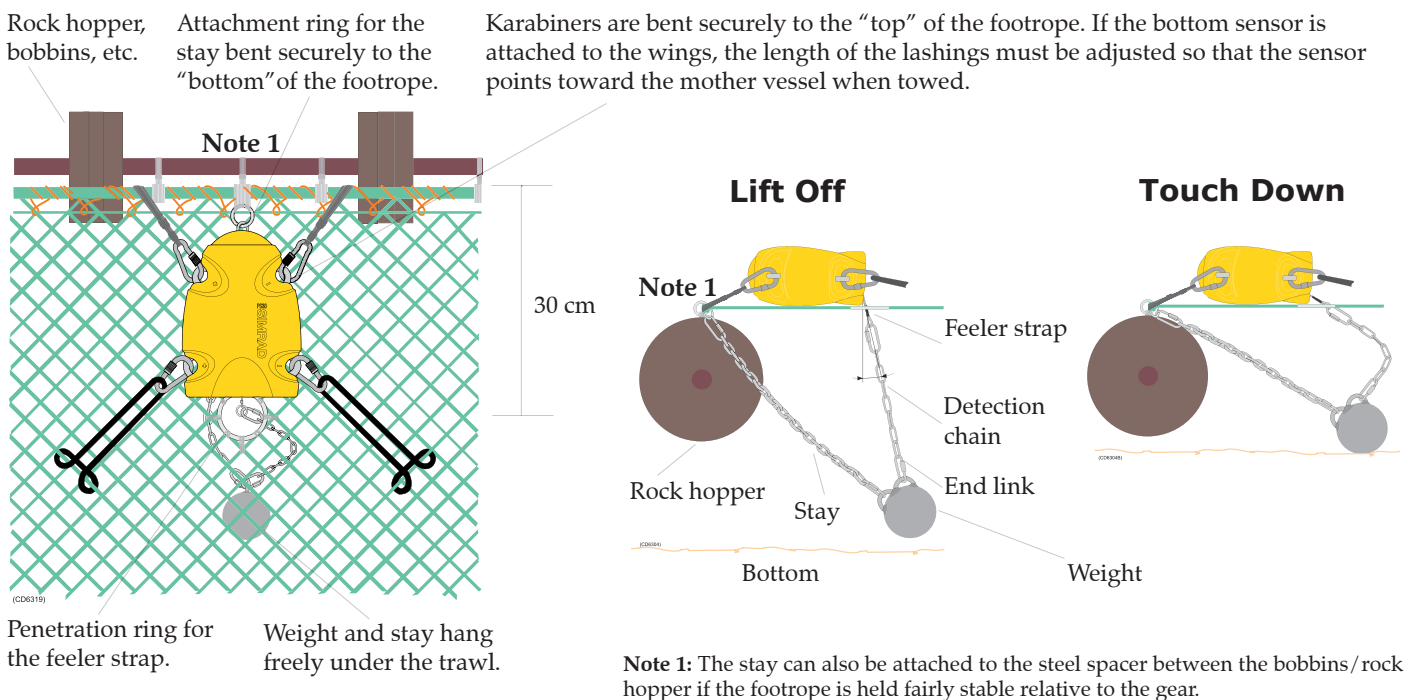


# PI32 Bottom sensor attachment

To attach a PI32 Bottom sensor:

- 1.) Locate the middle of the footrope and bend the attachment ring for the stay to the “bottom” and two strops attached to karabiners on either side to its “top”. The strops should create a bridle about 15 to 20 cm in length that will securely hold the bottom sensor in a stable position.
- 2.) Bend the penetration ring for the detection wire about 30 cm below the footrope as illustrated. Attach the bottom sensor and check that its feeler strap passes through the centre of the penetration ring. Remove the netting on the inside of the penetration ring.
- 3.) Attach the rubber strops so that the bottom sensor is held horizontally when towed.

**IMPORTANT:** Carefully attach the sensor to the inside of the trawl so that it is not subject to damage or torn off during fishing operations. The sensor’s feeler strap must always be allowed to pass freely through the centre of the penetration ring when it is deployed.



**Contact** - bottom sensors can detect bottom contact with a precision of just a few centimeters when correct stay and detection chain lengths are used. Optimal sensor performance requires that these lengths are configured with regard to both each other and the gear in use (the standard delivery includes a 63 cm stay and 39 cm detection chain for use with 14 to 16 inch bobbins or rock hoppers).

**Configuration** - the desired bottom detection distance is relative to the diameter of the rock hoppers, bobbins or other gear in use. This relationship can be determined and precise stay and detection chain length adjustments made as described below.

**Setup** - lay the bottom sensor on an elevated surface and observe detection wire movement while simulating bottom contact by raising the weight. Adjust the detection chain length as necessary. Tilt the weight approximately 25° ( $\alpha$  is due to drag through the water) opposite the towed direction and adjust the stay length so that it begins to be taught. Avoid extra links at the weight ends when shorting chains.

**IMPORTANT:** Weights must be removed from a bottom sensors with a long stays and detection chains before they transit the drum when hauling to prevent damage.