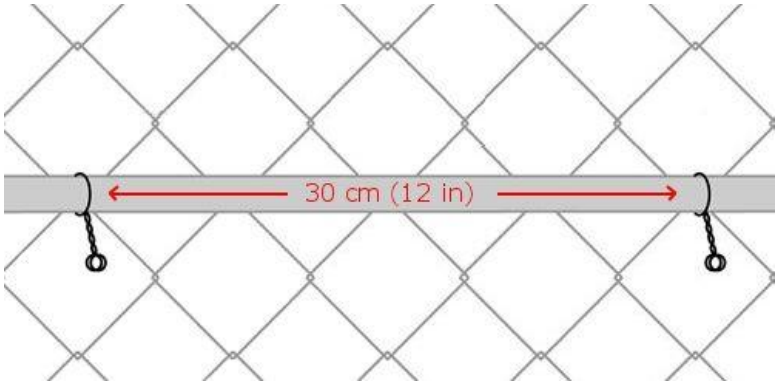
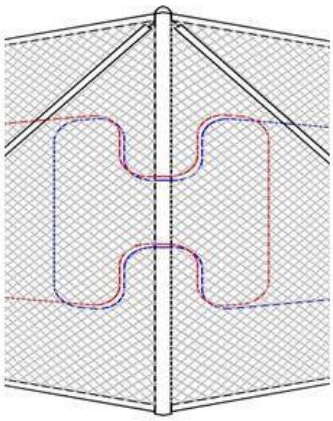
Installation Overview Application Note

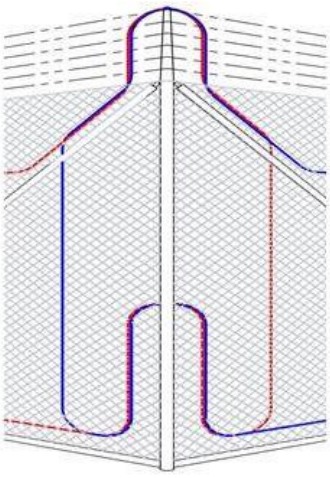
1. Wire ties, clamps, and any other device securing the sensing element to medium are limited to a maximum spacing of not more than 30cm (or approximately 12”) typically 4 chain link diamonds. This same spacing is recommended on backbone and lead-in cable as well. Use Installation Detail Drawing DW-SM010 as a reference.



2. Use only stainless steel wire ties to attach conduit.



Corner Posts



Corner Posts with Outriggers

3. Use installation Detail Drawings DW-SM004, DW-SM005, and DW-SM009 to determine proper methods of installing sensitivity loops on reinforced fence sections and corners. Failure to use proper sensitivity loops can increase nuisance alarm rate and/or reduce probability of detection. Also, note that zone overlap requirements are different between reinforced corner posts and standard straight panels.

4. Excessive sensing element stored in splice closures or cabinets can create “hot spots” and increase nuisance alarm rate. Sensing element storage should be limited to 1-2 meters and secured in a fixed position to inhibit vibration.

5. The performance of any Fiber SenSys product can be impacted by high system optical loss and connector contamination. Using an optical connector cleaning product such as the Fiber SenSys Cleaning Kit (PN: 980-83143) can ensure minimal system loss and maximize system performance. Always inspect optical connectors with an optical scope to verify cleanliness before connection to prevent contaminating the Alarm Processing Unit optical ports.

6. Conduit should be affixed to the protected side of the media material while applying approximately 30lbs of tension. This will help to eliminate sagging of sensor during hot and cold weather cycles.

7. Use installation Detail Drawings DW-SM004, DW-SM005, and DW-SM009 to ensure adequate maintenance loops exist on all sensors, lead-in, and backbone cables. Failure to plan and prepare for damage can lead to costly repairs as well as extended outages in the future.

8. Avoid over tightening the stainless steel wire ties as this may damage the protective conduit. Also avoid over excessive bends as this may kink the conduit.

9. Fence fabric should be in good repair; deflection ≤ 2” @ 30lbs for commercial grade fence or 50lbs for military grade fence; Repair loose sections; Tighten loose signs that are attached to the fence; Clear brush, trees or other obstructions that could cause nuisance alarms.

10. For more information refer to your products installation application note or contact Fiber SenSys Technical Support at 503.726.4455 or email at support@fibersensys.com