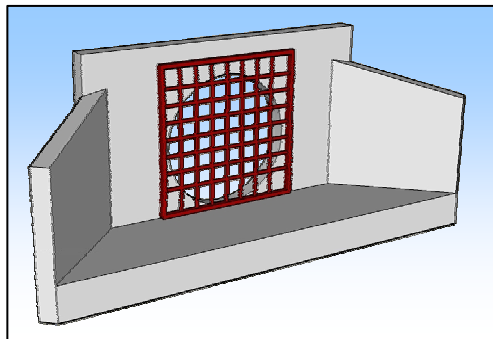


LightLOC® SmartGrate

LightLOC® SmartGrate is a unique and effective way to secure and monitor culverts and grates in remote locations. SmartGrate is a lattice of steel tubing in an outer frame that house monitored optical fibers. Attempts to remove or damage the grate will be immediately detected by the LightLOC® monitoring system (either LightLOC® or LightLOC® Express) located at a secure location up to 20km (12.4 miles) away. No electrical power is required at the grate location. LightLOC® SmartGrate can be installed over existing grates or custom-engineered into new construction or as a replacement of existing grates in any size or shape. Coatings can be galvanized or powder coated.



The design of SmartGrate and its monitoring system ensure a zero false alarm rate from water flow vibration, debris, or wildlife. Secure mounting options include locks or tamper-proof bolts.

Grates are linked to the monitoring system using standard singlemode fiber optic cable. The cable and splices are inherently protected by the monitoring system. Damage or tampering with the cable will trigger an alarm.

Technical Details

Tube Diameter	0.675 inches
Tube Wall Thickness	0.090 inches
Typical Grate Opening Size	6" X 6"
Maximum Distance From Monitor	12.4 miles

Installed SmartGrate



For additional information on the LightLOC® system, please contact Tom Browning at 864.967.1759 or tom.browning@wovenelectronics.com. Specifications are subject to change.