

How does the performance of LightLOC manhole sensors compare to the standard limit switches for monitoring the status of a manhole cover?

The realistic limit of copper wire typically used by limit switches is 4000 feet. By contrast, LightLOC systems have been tested to a distance of 25km (82,000 feet). When it comes to water-resistance, the LightLOC system outperforms limit switches in several key areas. While a steady head of water will eventually permeate the switch and corrode the contacts of a limit switch, the LightLOC sensors are relatively immune to the effects of water. LightLOC sensors are encapsulated in a very durable coating to seal them against a head of standing water. Further, all mechanical components are fabricated from plated aluminum or stainless steel which are highly immune to corrosion. Finding damage along the wire of a limit switch can be time-consuming and costly. With LightLOC, the monitoring software can locate damage to within a few meters.

How many sensors can a LightLOC system monitor?

LightLOC systems are built in "lines," where each line consists of a string of sensors and a pair of OTDRs for monitoring. There can be any number of lines, but the typical line accommodates up to 25 sensors. Factors such as fiber type and length may require that number to be reduced. The largest system currently deployed consists of 83 sensors in 4 lines.

How does the magnetic sensor work with LockDown's stainless steel pan?

The pan is simply fitted with a small ferrous piece that will work with the LightLOC sensor. This can be accomplished during production or in the field. For more information, visit <http://www.lightloc.com>.

