PROTECTOWIRE® FireSystems

CASE STUDY

Protectowire's Solar Panels

How our CTI Series Linear Heat Detector prevented an inconvenient false alarm.

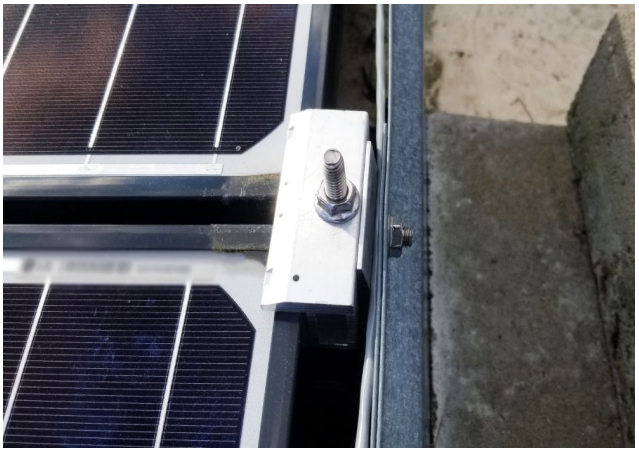
Five years ago, three hundred and forty-nine, 92-kilowatt solar panels were installed by Paradise Energy Solutions on the roof of the the Protectowire offices as well the manufacturing warehouse. These solar panels supply our business with 40% of our total electricity. While solar power provides an eco-friendly source of energy, there is an inherent risk of solar panel fires. To combat this risk, 2,400 feet (730 m) of Protectowire's CTI-220X detector was installed in proximity to the solar panels. Protectowire's Confirmed Temperature Initiation (CTI) Series Linear Heat Detector was chosen to protect the panels due to its ability to meet the detection challenges of solar panel installations.

Recently, the existing solar panels were being removed and replaced to identify faulty power optimizer units. During the replacement of one of the panels, the CTI-X detector was pinched into a mounting bracket, sending our building's fire alarm control panel (FACP) and CTM-530 module into a trouble or short fault condition.

Fortunately, because we had the CTI Series Linear Heat Detector installed, there was no fear of an actual fire condition or alarm due to mechanical damage. Had our PHSC Standard Digital Detector been installed, there would have been an alarm due to mechanical damage and our local fire department would have been required to come to the building, causing a major disruption to the workday and an avoidable use of the fire department's resources.

Protectowire's CTI-X Series is the perfect solution to protecting our building's solar panels because it is suited for applications that are subject to harsh exterior environments. The CTI Series provides chemical, abrasion, and weather/UV resistance as well as high-temperature performance and reassurance that a false alarm will not cost unnecessary time and money.

Learn more about our solar panel installation here.



Questions?
If you have further questions please visit **protectowire.com** or call **781-826-3878.**

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