Safe Roof Systems Inc

Roof deflection monitoring

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DMD-1000 applications

The DMD-1000 is designed to measure roof deflection and raise an alarm when the sag exceeds design limits (typically 70% of safe deflection).

Most collapse events are preventable if building maintenance crews have advance warning.

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Roof mounted systems

Renewable energy systems can add significant weight to a roof and introduce loads not expected when originally designed

- Solar panels add weight and windage
- “Green Roofs” prevent water from draining off quickly
- Increased R value reduces snow melt rates

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Safe guard against casualty and property loss

- Wide spans
- Flat or low-pitch roofs

- sagging roof sections can lead to Ponding

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Aging infrastructure

- The DMD-1000 can be used to monitor older structures when re-building is not an immediately available option
- “code alternative” solution for buildings 10 – 15 years old

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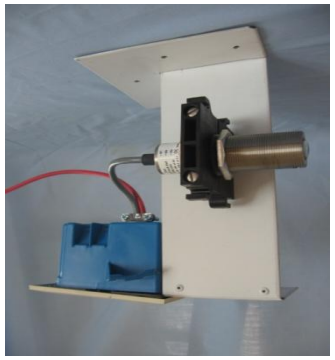
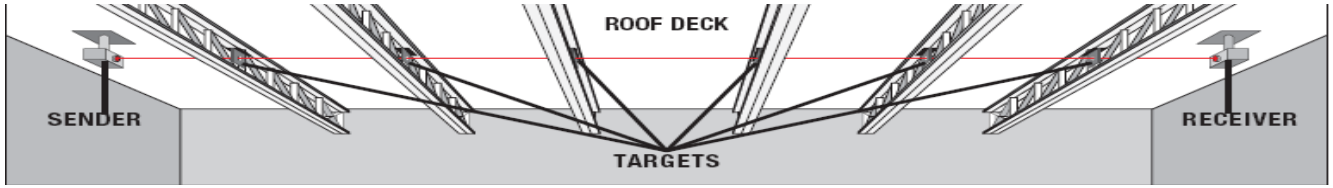
Infra red sensor “zones”



- Infra red sensor pairs can be mounted up to 600’ apart
- Any number of zones can be monitored
- Calibrated targets are mounted on roof joists along the path of the aimed infra red beam
- Sensors exceed NEMA 6P; IEC IP67 standards



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DMD-1000 central control panel

- Central control panel is typically located in a readily accessible location
- Panel can monitor any number of zones in one building or even monitor zones mounted in multiple buildings
- System can be programmed to “fault test” every millisecond or once a day
- Automatically re-sets if signal interruption is resolved

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