

Safe remote shutdown of rooftop PV systems

With PV Next Fireman Switch, Weidmüller offers a quick, space-saving, and inexpensive shutdown device in case of a fire

Shutdown solutions for photovoltaic systems allow the fire department to shut off power to the photovoltaic system in case of a house fire. This is one of the requirements to be able to extinguish the fire safely. One solution for doing so is the PV Next Fireman Switch from Weidmüller. „The PV Next Fireman Switch disconnects the PV module automatically from the grid in case of a fire – different connection types ensure maximum flexibility during installation”, says Pascal Niggemann, Head of Photovoltaik Systems Home & Business at Weidmüller.

Weidmüller’s PV Next Fireman Switch allows the fire department to work safely

The flow of current from the photovoltaics modules is interrupted when the power supply inside or outside of the house is turned off. This enables fire fighters to work safely and fires can be extinguished more quickly. “The PV Next allows an easy and space-saving installation directly under the roof and fully autonomous, energy saving activation and shutdown”, says Niggemann. Furthermore, the additional combination of the PV string in the solution makes it possible to achieve cable savings of up to 50 percent, since cable routing to the inverter is reduced.

Easy, fast, safe

The “PV Next” is the world's first combiner box based on a standardised printed circuit board design. The advantages: Ease, safety and time saving. “The innovative concept covers around 90 percent of today's standard requirements, enabling photovoltaics installers to work faster and to save costs”, Niggemann emphasises. The integrated PUSH IN technology reduces assembly times and minimises the risk of errors and the resulting consequences.

Shutdown time of milliseconds

The shutdown time of the PV Next Fireman Switch is around three milliseconds, which means that the resulting electric arc dissipates very quickly. In contrast to other solutions, electricity is only consumed during the switching process.

2,045 characters including spaces



Caption: Weidmüller's PV Next Fireman Switch automatically switches lines voltage-free when the AC power supply is disconnected.

Graphic: Weidmüller



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Photo: Weidmüller

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Responsible for the content

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