



POWERING A NEW DECADE OF SOLAR TECHNOLOGY

SOLEXUS SOLAR JUNCTION BOX SERIES 1104 FP

Firemen are save with Solexus 1104 FP

Solexus 1104FP is a standard profile junction box, equipped with an electronic device for fire protection. The fire-protection works with an external activation line.

The junction box is available in a version for standard ribbon configuration and a version for back-contacting crystalline solar cells.

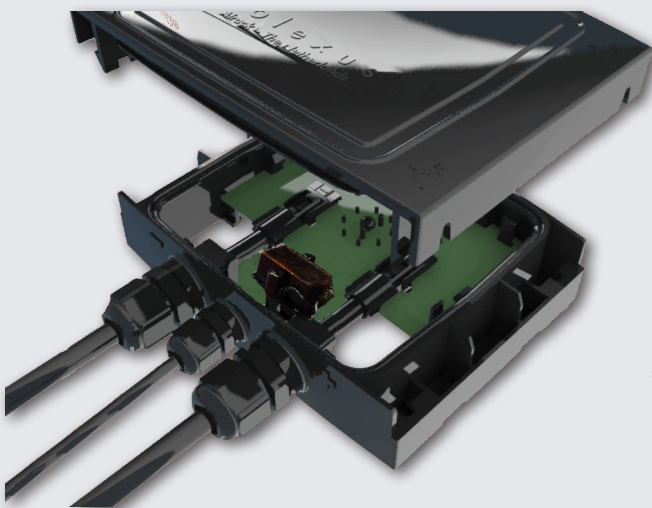
The junction box is fail-safe and short-circuits the module in case of emergency.

The switch off process takes place directly at the solar module contacts. Each solar module will be short cutted safe and redundant, bringing the energy output to an absolute zero.

The switching process is done by a safety circuit. Failure of the activation cable by fire or otherwise always results in an immediate power down of the solar system.

Activation can be achieved by a seperate switch or an electric local or remote alarm signal.

Switching of the electric power of the building, switches off all modules individually, reducing the solar power and solar voltage immediately to zero.



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SPECIFICATIONS

JUNCTION BOX - ELECTRICAL CHARACTERISTICS

- Rated voltage: TUV:1000V DC / UL:600V DC
- Working voltage 40 V DC
- Contact resistance: $\leq 5\text{m}\Omega$
- Current rating: 10 A / up to 20 A on request
- Safety Level: class II
- Diodes: 3, Schottky

FIRE PROTECTION - ELECTRICAL CHARACTERISTICS

- Short circuit method: bipolar relay
- Supply voltage: 12 V over data type cable
- Power consumption: < ca. 1,5 mA per box
- Switching capacity: 800VA (42V/20A or 80V/10A)
- Max count of boxes or modules: 100 per power supply
- Max count of boxes or modules per system: unlimited
- Connector system activation line: Phoenix Quick-On

MECHANICAL CHARACTERISTICS

- Locking mechanism to align top and bottom housing
- Removable top cover
- Ambient temperature range: $-40^{\circ}\text{C} + 85^{\circ}\text{C}$
- Overall dimensions:
 - Length: 98 mm
 - Width: 132 mm
 - Height: 32mm
- Cable type: 4mm^2 (12AWG) / 6mm^2 (10AWG)
- Cable length: on request
- Connectors: MC4 or compatible / other connectors on request
- Housing material: PPO (Polyphenylene Oxide)
- Housing color: Black
- Flame class: UL94-V0
- Contacts:
 - Material: Copper alloy
 - Plating Contact Area: Tin (Sn) over Nickel (Ni)
- Cable pull-out force: 500 N
- Spring loaded terminals connect top and bottom part
- Tooling: none required

ENVIRONMENTAL CHARACTERISTICS

- Halogen free
- RoHS
- Shell protection degree: IP67
- Pollution degree: 3
- Lead-free solder

