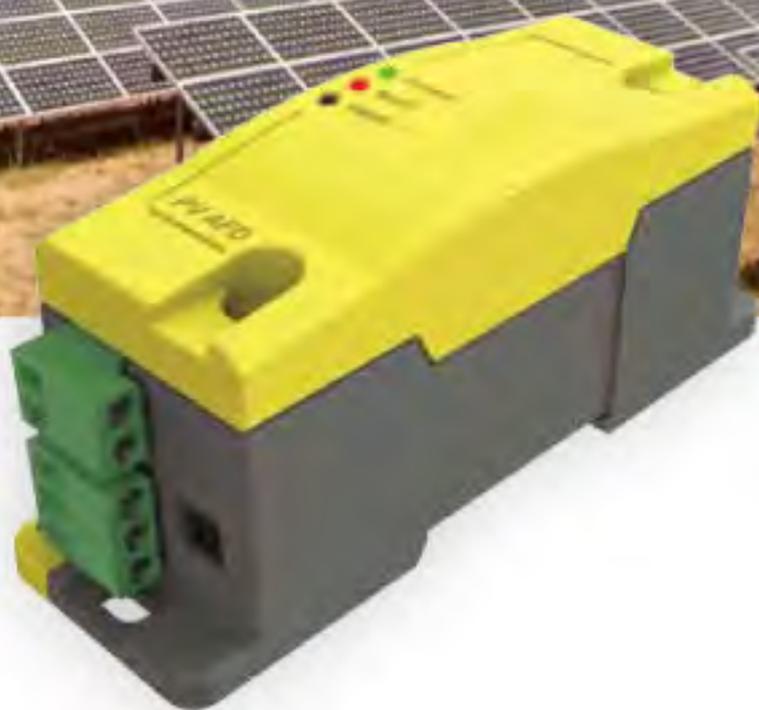
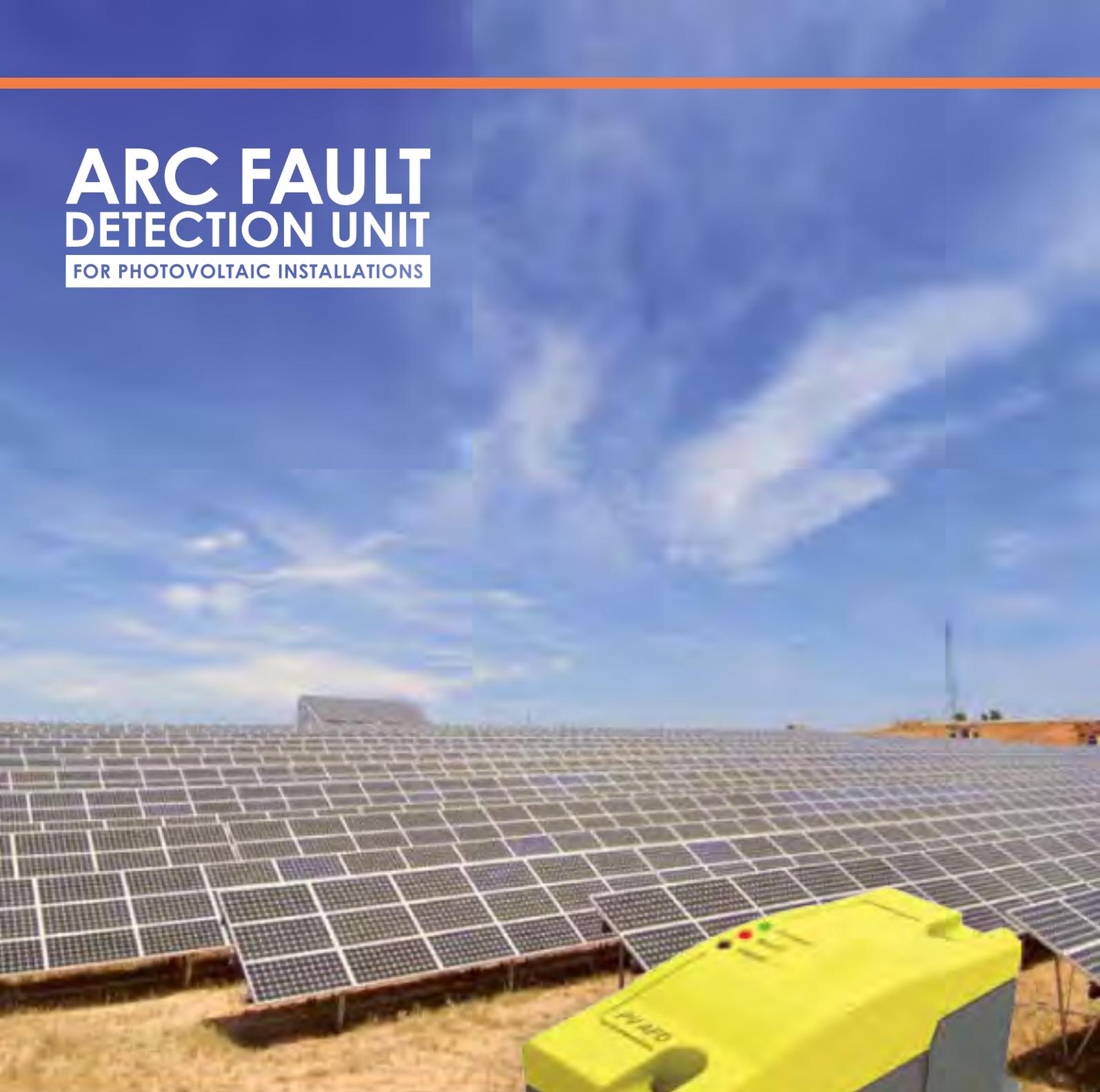


# ARC FAULT DETECTION UNIT

FOR PHOTOVOLTAIC INSTALLATIONS



# ARC DETECTION UNIT

THE ARC FAULT DETECTION UNIT (ADU) OFFERS EXTRA SAFETY, EFFICIENCY AND CONVENIENCE TO ANY PV SYSTEM. THE ELECTRONIC DEVICE DEVELOPED SPECIFICALLY FOR PV SYSTEMS DETECTS ARC FAULTS WITHIN A STRING AND GIVES BOTH VISUAL AND ACOUSTIC FEEDBACK THE MOMENT AN ARC FAULT OCCURS.

## ARC FAULTS

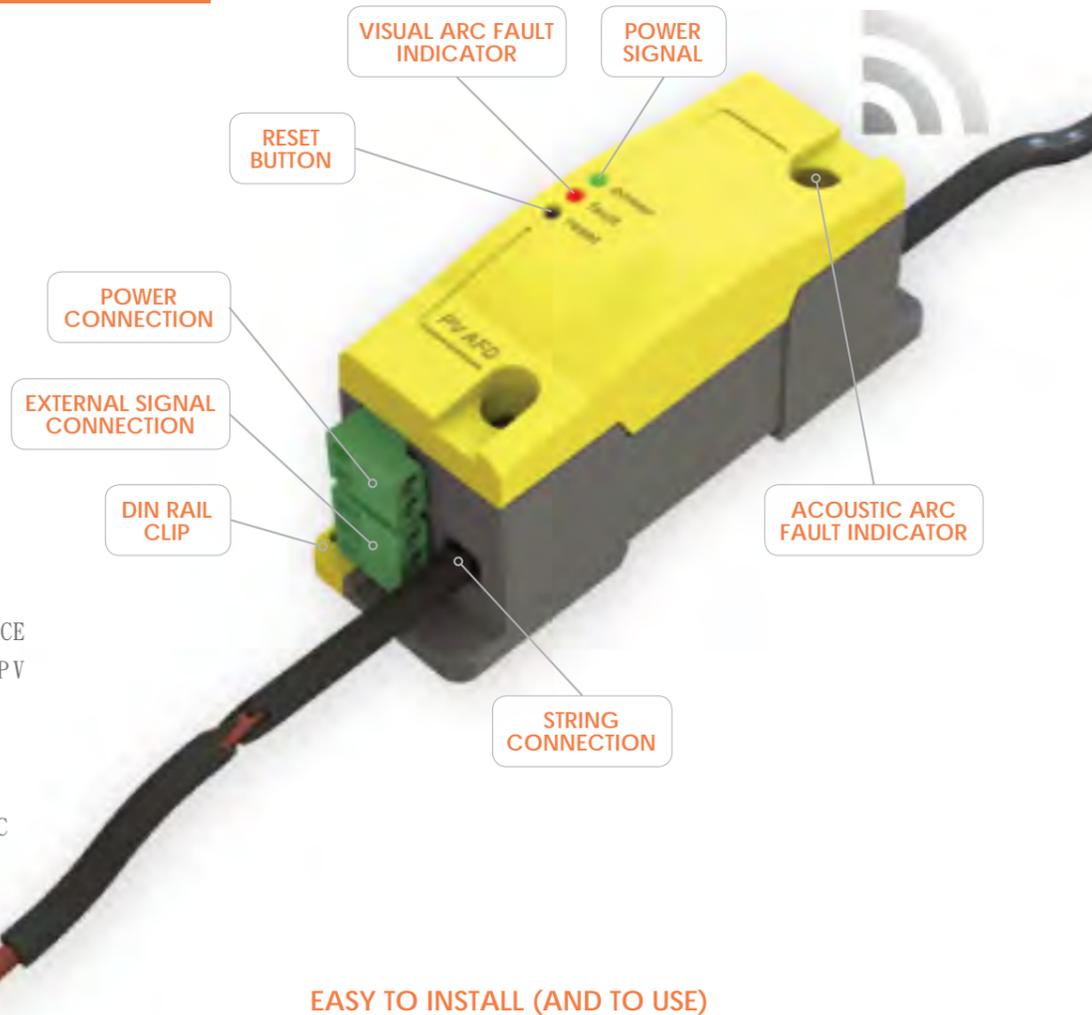
An arc fault occurs when loose or corroded connections make intermittent contact and cause sparking or arcing between the connections. This translates into heat, which will break down the insulation of the wire and in most cases is the trigger for an electrical fire. By detecting arc faults and resolving the cause at an early stage, fire and a lot of damage can be prevented.

## DETECTION PER STRING

The ADU not only detects arcs, but also indicates the exact installation where the arc fault occurs at the very moment it does. Therefore the ADU makes sure maintenance can take place efficiently and without waisting valuable time locating an arc fault. Checking the ADU devices regularly ensures that the installation is free of arc faults and running safely and without loss due to damaged cabling.

## SAFETY RESET

As soon as the problem causing the arc fault has been resolved, the ADU needs to be reset. If the problem hasn't been resolved correctly and an arc fault still exists the arc fault indicator will immediately light up again.



## EASY TO INSTALL (AND TO USE)

The ADU has a DIN rail design for easy installation in any new or existing installation. Monitoring your installation for arc faults has never been easier, thanks to the Arc fault Detection Unit.

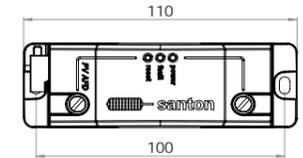
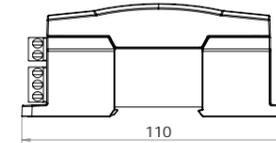
## INTEGRATION WITH EXTERNAL SAFETY SYSTEMS

The ADU can easily be integrated with external safety systems, increasing safety even more. It even makes it possible to automatically isolate the specific part of



# SPECIFICATIONS AND APPLICATIONS

## TECHNICAL SPECIFICATIONS



### TYPE CODE: ADU

Weight:	200g	Storage temperature:	-40°C to +85°C
DIN rail mounting:	DIN Rail TS35	Category:	PV AFD - Type 1 (UL1699B)
Wall mounting:	M4 mounting holes	Maximum rated voltage:	1000V DC
Operational voltage:	24V DC (+/- 10%)	Maximum rated current:	40 Amp
Current consumption:	0.2 Amp	Number of poles:	1 pole
Operational durability:	> 10 years	Advised cable size:	6 mm <sup>2</sup>
Operating temperature:	-20°C to +70°C	Maximum cable size:	10 mm <sup>2</sup>

## ADU ON DIN RAIL IN IP65 BOX



### TYPE CODE: ADU 1

- For 1 string
- 5 x M16 cable glands
- 1 spring terminal 6 mm<sup>2</sup>



### TYPE CODE: ADU 2

- For 2 strings
- 9 x M16 cable glands
- 2 x spring terminals 6 mm<sup>2</sup>



### TYPE CODE: ADU 3

- For 3 strings
- 13 x M16 cable glands
- 3 x spring terminals 6 mm<sup>2</sup>

## SILIOS E: ADU IN IP65 BOX AND X-TYPE DC SWITCH FOR MAX 32A/1000V DC



### TYPE CODE: E1

- For 1 string and 2 poles
- 5 x M16 cable glands
- 3 x terminals 6 mm<sup>2</sup>



### TYPE CODE: E14

- For 2 strings and 4 poles
- 9 x M16 cable glands
- 5 x terminals 6 mm<sup>2</sup>



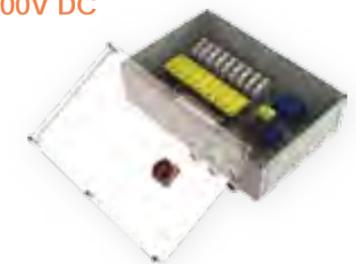
### TYPE CODE: E16

- For 3 strings and 6 poles
- 13 x M16 cable glands
- 9 x terminals 6 mm<sup>2</sup>

## JUNCTION BOX WITH ADU AND X-TYPE DC SWITCH FOR MAX 32A/1000V DC

### TYPE CODE: 58LX

- 9 string input
- 3 string combined output
- 6 pole X-type DC switch
- DIN rail mounting
- IP65 polystyrol box
- 18 x M16 cable glands for input
- 6 x M20 cable glands for output
- 9 x fuse holders
- Overvoltage protection



- For home and professional use
- Detection of arc faults
- For DIN rail and wall mounting
- Visible and acoustic arc fault indication
- Developed acc. UL1699B
- Supplied loose or in PV boxes
- Easy to install
- Integration with external safety systems
- For new and existing installations