



SECURITY SYSTEM SUN



SUN protection for SOLAR and PHOTOVOLTAIC PANELS

Solar and photovoltaic panel are becoming more and more widespread and there is often a requirement to protect them.

SUN is a fibre optic system that gives protection against removal of the panels.

The system protects the panels by joining them together using a fibre optic cable. Removal of a panel causes an interruption in the fibre optic and consequently generates an alarm. Our many years experience in the field has produced this specific system concept for the security of solar panels and photovoltaic systems, because we understand very well that it is important to avoid shadows and to reduce the performance of the panels, while at the same time not adversely affecting the aesthetics of the site.

Simplicity

Protection is effected with a glass multimode optical fibre that can be connected and joined using cold connectors without the use of splicing equipment. Flexibility

The fibre optic has a small diameter, is easy to install and after installation, is virtually invisible. Savings

SUN is a simple and economic system that allows the creation of fibre rings of 800m to protect hundreds of panels together using a single cable.



PERIMETER

Resistance

The fibre optic does not deteriorate, rust and is therefore hard wearing over time. **Protection**

The fibre optic security system is excellent because of the reliability of the optical signal. In addition, SUN cannot be intercepted and is therefore not removable.

Operation

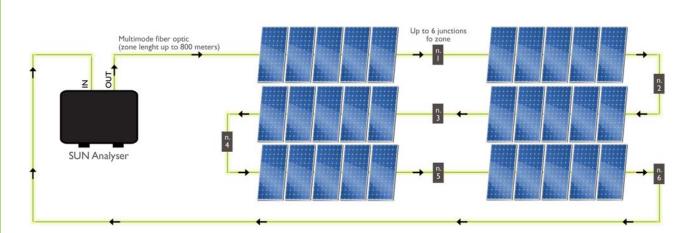
The SUN processing unit generates and analyses a light which is sent

down an optical fibre for all the protection zones.

The light is modulated so as not to swamp the receiver, located at the extreme end of the optical fibre, using another luminous source. The SUN unit analyses the light received in real time and if this is insufficient, due to interference with the optical fibre, will generate an alarm. Alarm signalling is via a relay contact on the processing board. Each SUN unit can monitor up to 800m of multimode fibre. On a zone of 800 metres it is possible to have up to 6 joints, each using a cold connector and in-line adaptor.



SUN protects solar panel installations using a single fibre optic cable. Each processor unit monitors up to 800 metres detecting a breakage in the fibre optic caused by removal of the solar panels.



TECHNICAL SPECIFICATIONS

Coverage per unit	800 metres
Maximum number of joints	6 (with cold connectors and in-line adaptor)
Power Supply	10.5 - 16 Vdc (12 Volt nominal)
Current	max 50mA @ 12 Vdc
Relay output	I (C, NC, NO)
Contact rating	100mA @12Vdc
Wavelength	850 nm
Optical connectors	ST
Technology	SMD
Operating temperature	-30° ÷ +70°C
Cabinet Box	metallic
Cabinet Dimensions (WxHxD)	87x45x72 mm

GPS Standard reserves the right to to modify the technical characteristics and prices without prior notice. Information within this document can e subject to modification and/or errors. For detailed information refer to GPS Standard.

Retailer of confidence



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