SunSniffer Technology

SunSniffer JB-ANALYTICS





Our high-quality junction box ANALYTICS contains a small - yet extremely powerful - chip.

An essential component of the SunSniffer technology, the junction box ANALYTICS integrates a SunSniffer sensor measuring the voltage of each module and the temperature of each junction box. The data of the SunSniffer sensors are sent to the String Readers via smart Powerline communication (existing DC cabling).



Picture 1. Junction box dimensions. Dimensions are expressed in mm with tolerance ± 2 mm (± 0.079 ")





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Picture 3. Sensor technical drawing and dimensions

The SunSniffer sensor transmits data with 30 seconds interval. There are three types of data sent: 1) Module full serial number SN; 2) Module voltage V; 3) Module Temperature t°C. The sequence is repeated every 4 minutes. Please refer to data packet sequence below.



Picture 4. Sequence of data packets

JUNCTION BOX TECHNICAL SPECIFICATIONS:

Terminals for ribbons	4
Rated current (J/D)	14.5 A/30 A
Rated voltage	IEC 1000 [V] / UL 600 V
Reverse current	25 A
Dimensions	140 x 128 x 25 mm
Temperature range	-40°C~ 85 ℃
Cable size	4.0, 6.0 [mm ²] / 12, 10 AWG
Ribbons size	max 8 mm
Protection degree	IP 65
Flammability class	5VA

SENSOR TECHNICAL SPECIFICATIONS:

Dimensions (L x W)	38.0 x 12.5 mm	
Working voltage	$10 \sim 45 \pm 0.2 V$	
Temperature	-40 ~ + 85 ± 2 ℃	
Current consumption	≤ 10 mAmp	
Serial Number length (SN)	30 bit	
Data transmission interval (T) , including:	30±0.4 sec	
- Temperature transmission interval (Trc)	4±0.4 min	
- SP full serial number transmission interval (Tsnfull)	4±0.4 min	
- Voltage transmission interval (Tv)	30±0.4 sec	

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