



## Signal Power Interface 5.0 – 48V

The Signal Power interface (SPI) is mounted in the pedestrian signal head to convert the 48 VDC WALK and DON'T WALK to low voltage DC Signals and DC power. Terminal screws include washers (clamping plates) intended for bare wire.

Please specify part number:

SPI - 48V	501-0303
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### INPUT CONNECTIONS:

48 VDC fused and surge protected Walk, Don't Walk, and AC Neutral inputs connect to Pedestrian Signal Head wiring.

### OUTPUT CONNECTIONS:

Four wires - Power (+12VDC), - GND, S2 Walk, S1 Don't Walk, connect from the SPI to a Guardian station terminal block. One SPI can operate one push button station. The SPI features redundant hardware and firmware safety interlocks to ensure safe operations in all situations.

Hardware is included with the SPI to provide easy mounting inside most types of pedestrian Signal heads.

The SPI features extensive transient protection and comes encapsulated in a UL94-V0 listed flame retardant polyurethane for environmental protection.

The SPI functions with the Guardian/Guardian Wave APS, Guardian Mini APS, Beacon/BBU, and WiAAPS/WiAAPS Wave APB.

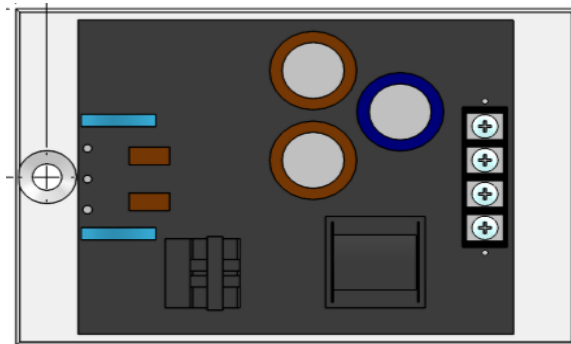
### Design Compliance

Test Type	Compliance
Temperature and Humidity	NEMA TS2
Transient Voltage Protection	NEMA TS2 IEC 61000-4-4, IEC 61000-4-5
Mechanical Shock and Vibration	NEMA TS2
Radio Frequency Devices; Unintentional Radiators	FCC Part 15, Subpart B

Notes: Applicable sections only of reference standards

### 48VDC Inputs

Wk\_IN  
Neutral  
DW\_IN



### 12 VDC Outputs

Terminal 4: + 12 VDC

Terminal 3: - GND

Terminal 2: S2 Walk

Terminal 1: S1 DW

