A cost-effective power and output conversion accessory for DC sensors...

Python Power is an accessory that allows a DC sensor to be installed in locations where only AC power is available or to simply maximize installation efficiency.

Python consists of a universal, in-line AC/DC power supply and TRIAC switch. The integral TRIAC output switch is controlled by the sensor's low-voltage output, automatically detecting a sinking or sourcing output. The TRIAC is then actuated.

The DC output will power most types of sensors, allowing users to take advantage of the advanced features available in DC sensors that are not available in AC sensors. Unlike other products, Python has a sleek design and can be pulled through and stored in a 1-inch straight conduit.

Python is a powerful performer and an ideal converter for retro-fit installations.

Accepting universal AC input voltages from 85VAC to 265VAC, the encapsulated housing and integral cables are resistant to most acids, bases, and food and beverage.

Python is UL listed to UL61010C-1 and CE certified to EN61010C-1. Python’s IP67 enclosure rating ensures it will withstand washdown environments.

Python supports many sensing applications where DC power is unavailable. Because of this versatility, it is a solid candidate for almost every application in an AC environment. Python is an ideal converter for retro-fit installations and a cost-effective, time-saving solution for new installations. Python accommodates all Hyde Park DC-powered sensors, as well as most other brands. Python can be used with most any sensing technology, including ultrasonic, photoelectric, and inductive proximity.
**Operation**

Depending on the type of sensor you are using, Python's model number will vary (see Model Reference Guide on page 6-3). The sensor you are using must operate on a 15VDC to 18VDC supply, consume 100mA or less of operating current, and have a sink or source output.

**WARNING:** Applied AC load must limit Python’s TRIAC switch to rated current.

**Dimensions**

NOTE: Python can be pulled through 1in E.M.T.
**General Specifications**

**AC Power Requirements**
- Supply Voltage: 85VAC to 265VAC, 50/60Hz
- Current Consumption: 35 mA max.
- Power Consumption: 4 VA max.
- Installation category: II (IEC 60364-4-443)
- Input fusing: non-replaceable, non-repairable

**DC Output Ratings (to sensor)**
- Minimum at rated current: 15VDC
- Maximum at no load: 20VDC
- Regulation: 40 V/A
- Current, max. rated: 100mA
- Current fault, max.: 200 mA
- Pr/sec. isolation: 2200VAC, 1 min.
- Turn-on delay, 100mA load, 90% final voltage: 10ms typical
- Turn-off delay, 0mA load, 10% full voltage: 1s typical

**Environmental**
- Operating Temperature Range: -25° to 60°C (-13° to 140°F)
- Storage Temperature Range: -40° to 85°C (-40° to 185°F)
- Operating Humidity: 100%, non-condensing
- Protection Ratings: Type 1 (UL50), IP67

**Agency Approvals**
- CE Mark: CE conformity is declared to: EN55011:1998 Group 1, Class A EN61010C-1
- EMC: EN61326:1997 Measur., Lab., and Control
- FCC Class A (USA)
- UL61010C-1 "Industrial Control Equipment" File#E238344
- FDA: Cables and over-mold are FDA compatible non-contact
- Declaration of Conformity available upon request

**Construction**
- Dimensions: (length x diameter) 152 mm (6.0 in) x 24 mm (0.95 in)
- AC cable: 4-wire, 18AWG, 300V, PVC:
  - 2 m (79.0 in) x 7 mm (0.28 in) dia.
- DC cable: 4-wire, 22AWG, 300V, PVC:
  - 1 m (39.0 in) x 5.2 mm (0.21 in) dia.
- Material: PVC
- Input fusing: non-replaceable, non-repairable

**TRIAC Switch Ratings (switch AC current only)**
- Features: optically isolated, zero-crossing
- Switch voltage, maximum: 230VAC
- Switch Current, maximum: 50mA@230VAC, 100mA@120VAC
- Isolated from AC line