FERRARIS

Electrical power, Super Wi-Fi, Now Accessible Anywhere
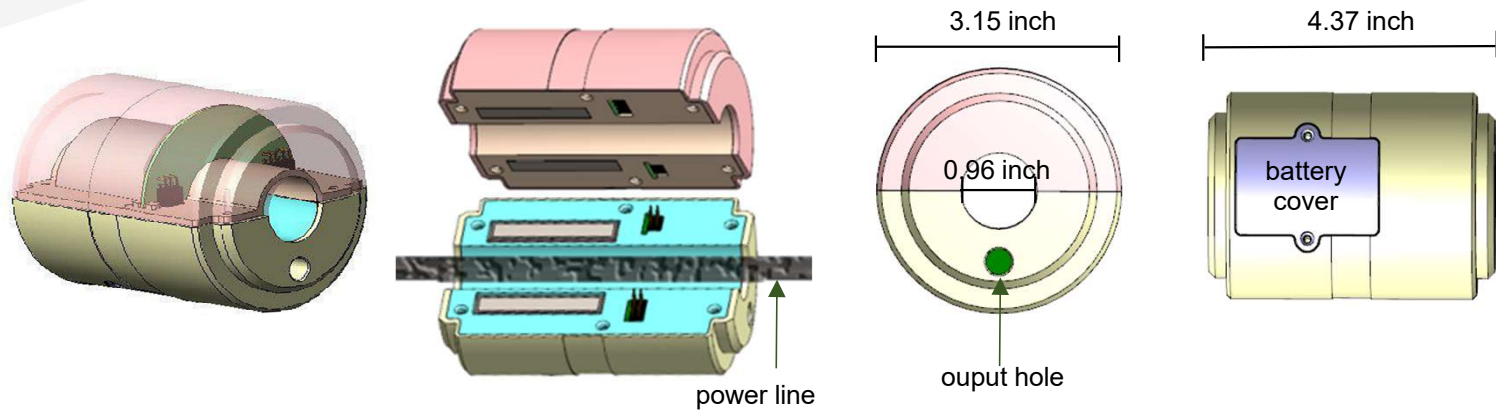
June 2022

Introducing PH4IoTs

Power harvesting for IoT sensor devices

- By harnessing an innovative contactless and magnetic harvesting technology, Ferraris' products enable the conversion of electromagnetic field energy to an electric power source. Our power supply solution (Tolenoid C® and PH4IoTs) can be used anywhere with nearby power lines to supply electricity for your IoT sensor devices – even in the absence of transformers or outlets.

- The PH4IoTs (Power harvesting for IoT sensor devices) product was designed and developed so that customers may directly connect to an IoT sensor device with DC output; the built-in battery can be charged with the electricity generated internally from the PH4IoTs, so that customers may conveniently supply power to their IoT sensor devices.

- If the customer utilizes PH4IoTs, they should not need to replace the battery.

- If the customer utilizes PH4IoTs.w, they can remotely monitor the magnetic harvesting power and measure the battery capacity via Wi-Fi transmission (option).

- Which sensors could they be used with:
  - ✓ Temperature, Humidity, Light Meters, Thermocouple, Water Detection, Gas Detection, Air Quality, Soil Moisture sensor etc.

PH4IoTs

- The PH4IoTs (Power harvesting for IoT sensor devices) can also be used in the following cases with optimal efficiency:
  - ✓ Inconsistent power line voltage
  - ✓ Using IoT-related devices 24 hours a day
  - ✓ When a power cord or a special power source for outdoor operations is needed for any of the wireless IoT devices
  - ✓ To save electricity cost

- PH4IoTs Product description:
  - ✓ This product can be used on a power line thinner than 0.9 inches.
  - ✓ It is possible to directly supply power to the IoT devices with an output of 6 Vdc 3 Watts.
  - ✓ Multiple links: if the used IoT devices require more than an output of 3 Watts, OR-rings can be used and link up to triple PH4IoTs for the output of 9 Watts.
  - ✓ If the customer requires even more power supply (50 to 500 Watts), please carefully consider the use of Ferraris' Mini-ERR (Energy Recycling Reservoir) System.

- Ferraris will respond immediately to specification change requests, including DC output, battery capacity, and Wi-Fi module, for certain customers who have ordered a bulk purchase of the PH4IoTs.
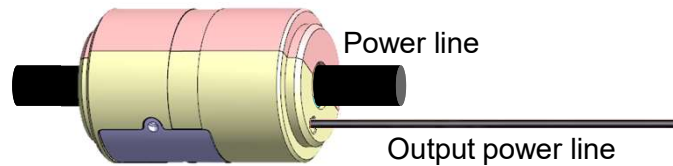
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PH4IoTs – Assembled

3.15 inch

0.96 inch

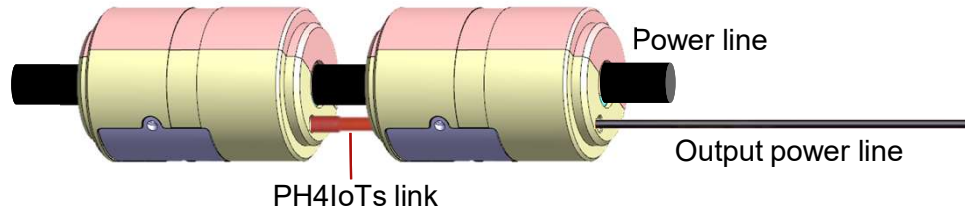ouput hole

power line

4.37 inch

battery cover

PH4IoTs – Multiple links

- If the used IoT devices require more than an output of 3 Watts, OR-rings can be used and link up to triple PH4IoTs for the output of 9 Watts.
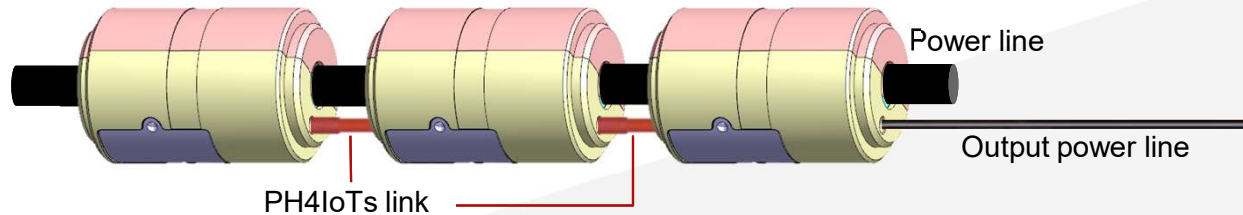
Single PH4IoTs:

(6 Vdc 3 W output)

Power line

Output power line

Double PH4IoTs:

(6 Vdc 6 W output)

Power line

Output power line

PH4IoTs link

Triple PH4IoTs:

(6 Vdc 9 W output)

Power line

Output power line

PH4IoTs link

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