

Wireless Switches – Generator



AFIG, AFIM Series Energy Harvesting

Description

The generator and generator with RF-Electronics PCB convert mechanical energy to electrical energy, enabling our Energy Harvesting wireless snap and rocker switches to provide data transfer via RF technology, eliminating the need for batteries. This also eliminates the need for complex wire assemblies and increases flexibility for use in previously inaccessible locations.

The generator is integral to the switches, and is also available as a stand-alone unit for use with your own mechanical switch. There are multiple frequencies available.

Features

- Small size, with high energy efficiency
- 868 MHz and 915 MHz frequency bands allow global use within different applications
- Long mechanical life
- Protocols are sent up to 3 times

Typical Applications

- Building Automation
- Industrial Automation
- Smart Home
- Lighting

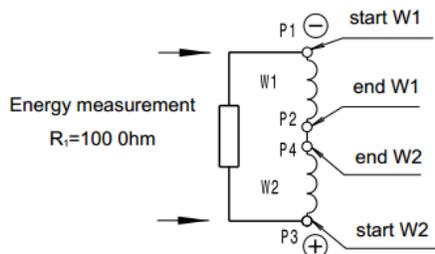
Technical Specifications

| | |
|--|------------------------------------|
| Operating Temperature | -40 °C to 85 °C (-40 °F to 185 °F) |
| Mechanical Life | Up to 1,000,000 operations |
| Frequency Bands, Generator with RF-Electronics | 868 MHz or 915 MHz |
| RF Distance with Cherry Energy Harvesting Switches (open area) | Up to 300 m (984') |
| RF Distance with Cherry Energy Harvesting Switches (buildings) | Up to 30 m (98') |
| Operating Force | 13 N max |
| Energy Generated | 0.33 mWs actuating and releasing |

Products

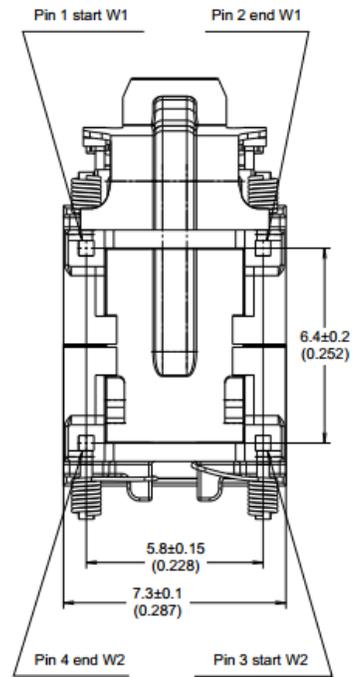
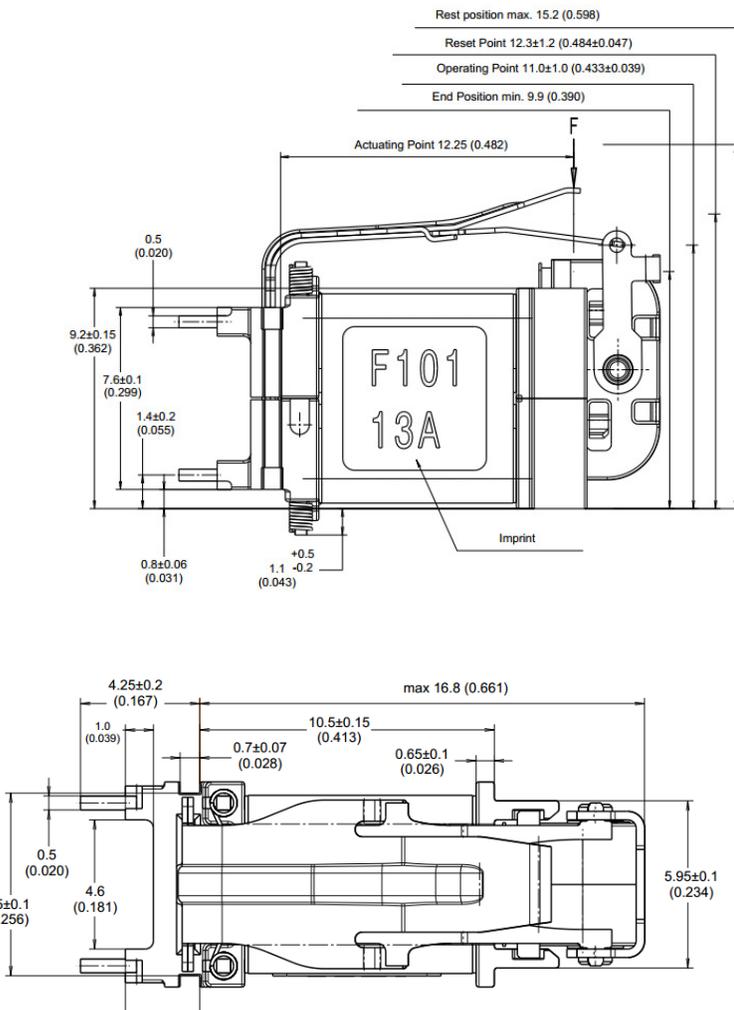
| Part Number | Description |
|-------------|---|
| AFIG-0007 | Generator |
| AFIM-1001 | Generator, RF-Electronics, ZF protocol wire, antenna, 868 MHz |
| AFIM-5002 | Generator, RF-Electronics, ZF protocol wire, antenna, 915 MHz |

Test Sequence

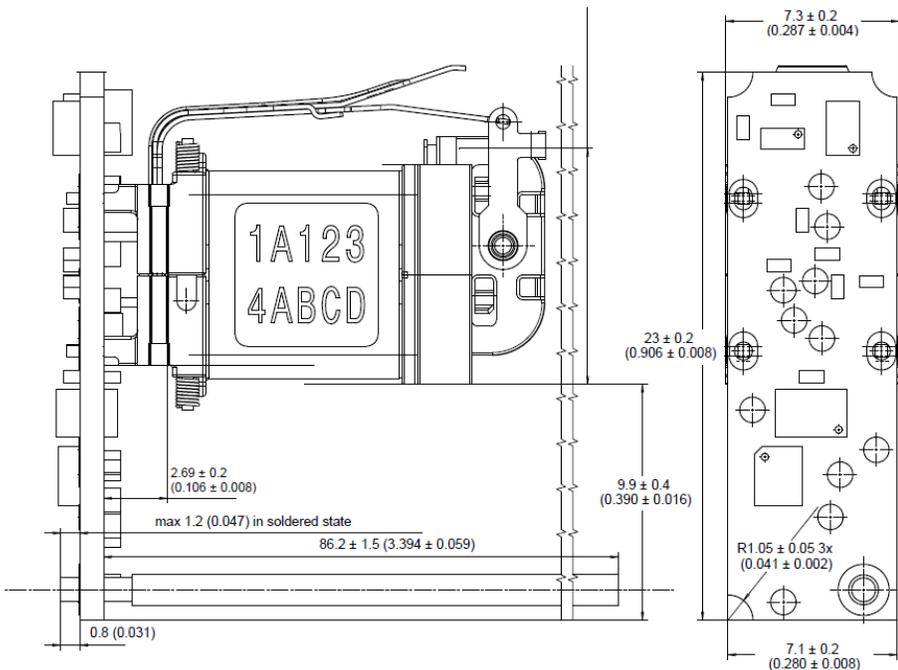


Observing the polarity a positive pulse is induced at press actuation and a negative pulse is induced at release actuation

Dimensions mm (inches)



GENERATOR WITH PCB AND WIRE ANTENNA



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