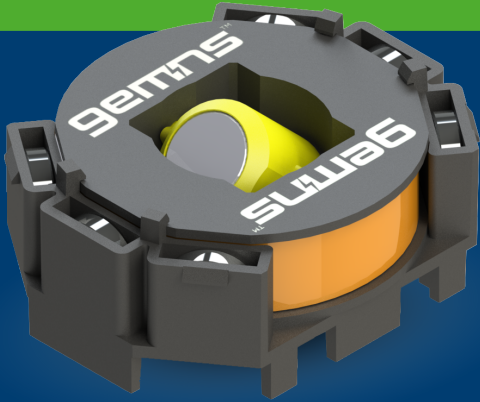


G200 EHG Specification



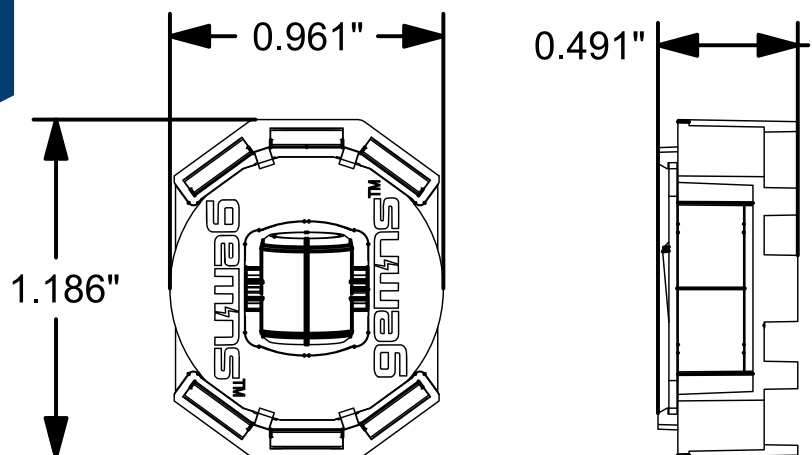
Details

- ▶ Versatile and compact design with output exceeding 3.0 milljoules
- ▶ Various actuation options include plunger, magnetically coupled, and preloaded configurations
- ▶ Ideal for environments with high energy demands like industrial IoT and automotive
- ▶ Life-tested to over 250,000 activations (with 1 million+ achievable)
- ▶ Easily adapted in design to fit requirements for form factor, energy demand, actuation type, and weather rating

Features

- ▶ gemns™ EHG's model G200 is bidirectional signaling device based on electromagnetic induction
- ▶ Permanent magnet and induction coil uses kinetic energy from permanent magnet rotor to generate electrical energy
- ▶ Versatile Actuation Options
 - Plunger Activation – Designed for industrial applications (limit/safety switches) with mechanical striker application
 - Magnetically Coupled - Provides the benefits of non-contact actuation
 - Preloaded/Resettable - EHG is preloaded with energy, requiring extremely low force to release energy.
- ▶ Bidirectional operation with actuate/release direction detection
- ▶ High Output – 3.5 mJ with 3.3V Buck-boost and 3.2 mJ with 1.8V Buck, 5~50mA load, significantly exceeds competing commercial technology offering only 120uJ
- ▶ Ready for custom OEM package design/integration

Dimensions

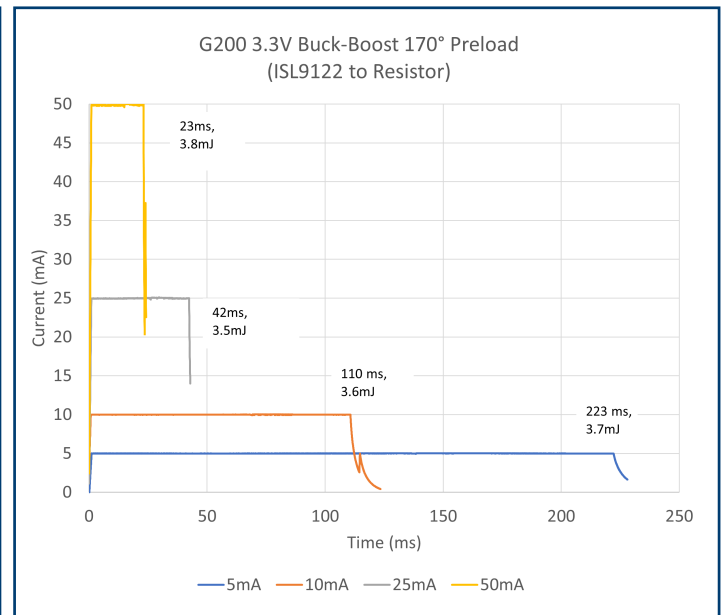
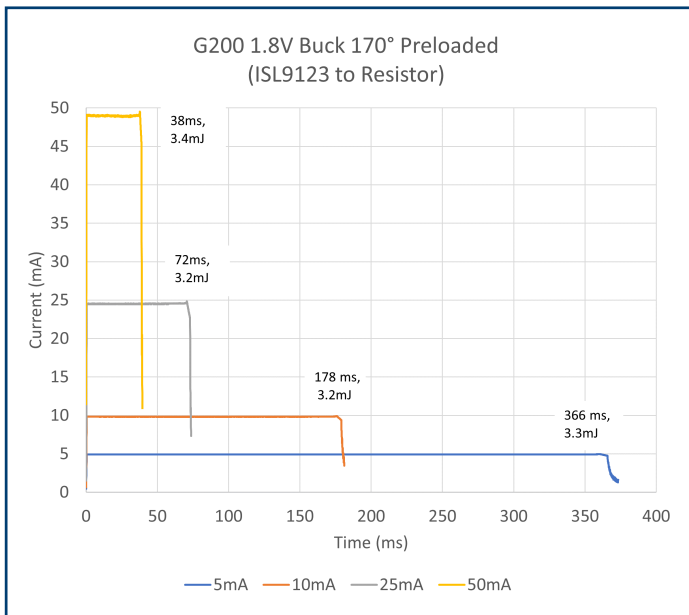


G200 EHG Specification

Generator Specifications

Voltage at max. charge	4.6 V
Regulated Energy – 1.8V	> 3.2 mJ, external ISL9123
Regulated Energy – 3.3V	> 3.5 mJ, external ISL9122
Actuation Force	Actuator type dependent
Cycle Durability	1,000,000 ¹ Press/Release Cycles
Operating Temperature	-40 to +85° C

Energy Output Curves



Data provided is by actuation using manual preload and release.

1 - 250K validated cycle life, over 1M expected



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