CSR Environment

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Precautions when handling our products

Careers

Q Products inquiry

Energy Harvester SPGA Series

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Energy Harvester

Products

What's New

Samples & Sales

No power supply, battery or maintenance required. Power generated with a low-force push.

The SPGA Series Energy Harvester is a compact power-generating device employing electromagnetic induction to generate power with each push or release. Combined with low-power wireless technology, the device can function as a switch. It can be installed away from a main board, for example, in places where connection to a power source, or battery replacement, is difficult, and is ideal particularly for frequently operated equipment.

Alps Company Info



SPGA Series

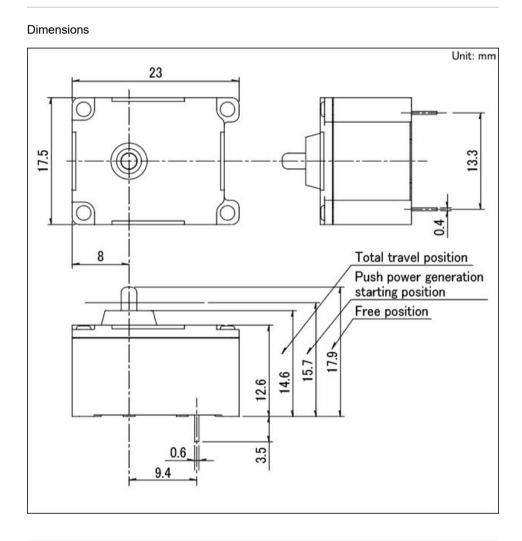
●Long operating life of 1 million cycles

Excellent feel achieved with operating force of 6±1.5N
Compact dimensions (17.5 × 23 × 17.9mm)

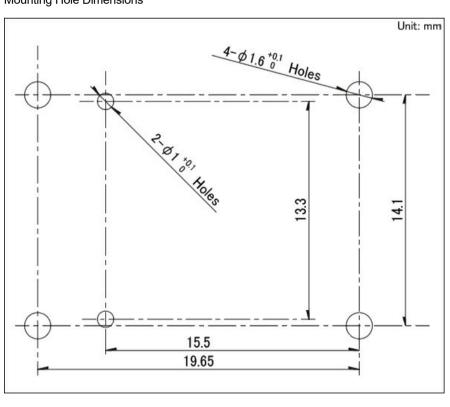
• Equipment with batteries in danger of going flat at the wrong time Operation, position sensing in places where circuitry or wiring is complicated
 Can be retrofitted to existing equipment as wiring not required

Items			Specifications
Part number			SPGA110100
Dimensions (W×D×H)			17.5×23×17.9mm
Power generation			170μJ (for each operation)
Operating force			6N±1.5N
Travel			3.3mm
Operation			Push
Poles		1	
Terminal type		For PC board	
Operating temperature range		-20°C to +70°C	
Mechanical performance	Actuator strength	Operating direction	35N
		Perpendicular direction	5N
Durability	Operating life		1,000,000 cycles
	Cold		-40°C 96h
Environmental performance	Dry heat		85°C 96h
	Damp heat		60°C, 90 ~ 95%RH 96h
3D CAD (STEP)			•
Certificate of Compliance to RoHS regulations		0	

% Please contact an Alps Alpine sales representative about wireless systems, auxiliary circuits or other inquiries.



Mounting Hole Dimensions



Packing Specifications

Tray			
Number of packages (pcs.)	1 case / Japan	320	
	1 case / export packing	320	
Export package meas	surements (mm)	360×270×230	

Soldering Conditions

Reference for Hand Soldering	
Soldering temperature	350±5°C
Soldering time	3s max.

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