

August 28<sup>th</sup>, 2025

Alps Alpine Co., Ltd.

## **Started the mass production of small, silent, 2-pole 2-position type switches**

**-Aiming to be adopted for an increasingly wide range of brake systems-**

In August, Alps Alpine Co., Ltd. (Head Office: Ota-ku, Tokyo; Representative Director, President & CEO: Hideo Izumi; hereinafter "Alps Alpine") has started mass production of the "SPVQF Series", a new model of its 2-pole 2-position switch series designed for automobile parking brakes with a shipment record of 350 million units over the past ten years. This product is characterized by its silent operation and compact size, being approximately half the width of the conventional "SPVQC Series."



### **Background**

In the current in-vehicle market, the operation methods of parking brakes are drastically changing. As the transition from conventional pull handles and pedals to electric parking brakes (EPB) using buttons progresses, the car interior layout is also changing due to the introduction of liquid crystal panels at the center of the console, leading to an increasing demand for an increasingly wide range of parking brake buttons. Moreover, as electric vehicles become more popular, there is an increasing demand for silent operations as well. This product has been developed to meet both these needs and customer expectations.

### **Key features**

- The 2-pole 2-position detection switch ensures reliability by allowing one circuit to compensate when the other one malfunctions. It is suitable for use in components that require extra safety.
- The new circuit structure achieved approx. 50% width reduction compared to the conventional "SPVQC Series." This contributes to improving the flexibility of layout of interior control buttons.
- Quieter by 5dB compared to the conventional "SPVQC Series." Designed with consideration for use in electric vehicles with low driving noise.

[Product information]

Item	Specification
Product name	SPVQF Series
Outer dimensions	W6.3×D8.5×H7.0 mm
Actuating force	1.8N max.
Maximum rating	50mA 18V DC
Initial contact resistance	75mΩ max.
Operating life	300,000 times
Protection structure	IP6K7

[Application example]

In-vehicle electric parking brake

[Sales information]

Release schedule: August 2025

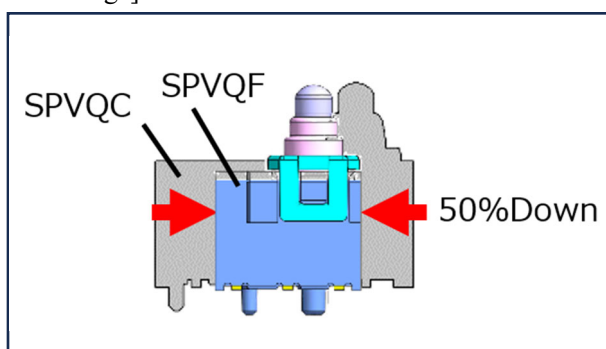
Sample purchase: <https://tech.alpsalpine.com/e/products/detail/SPVQF10201/>

## Future outlook

With the advancement of autonomous driving technology and electric vehicles, the 2-pole 2-position switch is increasingly being adopted for in-vehicle controls where redundancy and safety are required. The sales target for this product is shipment of 1 million units per month by March 2028.

Alps Alpine will continue to expand its product lineup to meet an increasingly wide range of customer demands and provide more added value.

[Reference image]



▲ Comparison with the conventional model



▲ Image of in-vehicle electric parking brake

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