



Bourns Introduces 6 mm Incremental Potentiometers for Space-Constrained Position Feedback Applications

Compact hollow-shaft incremental potentiometers combine long operational life, stable electrical performance, and flexible mounting options for industrial and commercial equipment

RIVERSIDE, Calif., September 14, 2026 - Bourns today announced the [PST065 Series 6 mm Incremental Potentiometers](#), a new rotary position sensing component family designed for applications where board space is limited and reliable position feedback is required. The series combines a compact 6 mm hollow-shaft design with stable electrical performance, a rotational life rating of 10,000 cycles, and resistance values from 1 kΩ to 5 MΩ. Available in horizontal and vertical mounting configurations, the PST065 Series supports mechanical flexibility in space-constrained equipment designs.

As industrial and commercial equipment becomes increasingly compact, design engineers face mounting pressure to integrate reliable user input and position sensing functions without increasing the PCB footprint or adding mechanical complexity. Rotary position feedback components used in automation equipment, robotics, and human-machine interfaces must maintain consistent performance throughout their service life while accommodating varying mechanical shaft configurations. The PST065 Series addresses these requirements with a miniature package, multiple shaft styles, and operating characteristics intended to support consistent position feedback in demanding everyday operating environments.

"Designers of compact control and position feedback systems often need to balance limited available space with requirements for long operational life and stable performance," said Javier Navarro, Product Line Manager, Sensors & Controls, Bourns. "The PST065 Series combines a 6 mm package size, a hollow-shaft mechanical design, and a 10,000-cycle rotational life rating to help simplify integration into industrial controls, motion systems, and other equipment where long-term reliability is an important design consideration."

Design Features

- Compact 6 mm package - supports integration into highly space-constrained designs and control assemblies.
- Hollow-shaft configuration - simplifies mechanical integration while supporting multiple shaft style options.
- Long operational life - rated for 10,000 rotational cycles to support sustained use in control and position feedback applications.
- Mounting flexibility - available in both horizontal and vertical mounting configurations to accommodate different PCB layouts.
- Stable electrical performance - provides linear output characteristics with electrical travel specified at $200^\circ \pm 20^\circ$.
- Wide resistance range - available from 1 kΩ to 5 MΩ to support diverse application requirements.
- RoHS compliant* - compliant with RoHS requirements.

Key Specifications

Parameter	Specification
Contact Rating	10 mA @ 5 VDC
Taper	Linear (B)
Rated Power	0.1 W
Rated Voltage	200 VAC - 100 VDC
Standard Resistance Range	1 kΩ - 5 MΩ
Operating Temperature	-10 °C - +70 °C
Rotational Life	10,000 cycles

Target Applications

- Industrial controls for adjustment and position-setting functions
- Robotic systems requiring rotary position feedback
- Factory automation equipment for user interface and control inputs
- Motion control systems requiring rotary position sensing
- Human-machine interfaces (HMI) for operator adjustments and settings
- Commercial equipment utilizing compact rotary control elements
- Position feedback applications requiring consistent long-term operation

Availability

The [Bourns® PST065 Series](#) is available in horizontal and vertical configurations. For additional product details, inventory, and samples, visit [Mini-Incremental Potentiometers](#) or contact [Bourns Customer Service/Inside Sales](#).

About Bourns

Bourns is the global electronic components partner for design engineers whose systems must keep working—in vehicles, aircraft, defense and navigation systems, medical devices†, data centers, satellites, consumer electronics, energy systems, and the networks that connect them. Across power, protection, sensing, timing, and thermal management, Bourns builds solutions for the demanding requirements those systems create. The family that founded Bourns in 1947 still governs the company—a stewardship that lets Bourns commit to its people, technologies, and customers for decades rather than quarters. For more information, visit bourns.com.

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