

# New P11H Modular Panel Potentiometer Delivers Industry-High Rotational Torque of 8 Ncm in Compact 12.5 mm Size, Features Up to Seven Modules for Off-Road, Aeronautics, and Industrial Applications

## Product Benefits:

- Rotational torque of 8 Ncm
- Compact 12.5 mm size with a 6.35 mm shaft diameter
- Features up to seven modules
- Cermet element provides better stability than carbon elements
- 1500 VRMS dielectric strength offers reliability and robustness
- Low TCR of  $\pm 150$  ppm/ $^{\circ}$ C
- RoHS-compliant and tested in accordance with CECC 41000 or IEC 60393-1
- Customization capabilities:
  - Custom shafts, wire, connectors, and PCBs; reinforced traceability; special resistance taper (resistance variation, linearity); and other value-added options are available



## Market Applications:

- Voltage divider or rheostat for light, radio volume, and air conditioning control in tractors, construction equipment, and aircraft cockpits, in addition to industrial tool setting and electric welding, motor speed, and low power control

## The News:

Vishay Intertechnology announces a new modular panel potentiometer that delivers industry-high rotational torque of 8 Ncm — 200 % higher than the closest competing device — for off-road, aeronautics, and industrial applications.

- The device's high rotational torque allows for stability under harsh environmental conditions like temperature changes and high humidity, while permitting the potentiometer to maintain its setting / shaft positioning when exposed to high vibration and shock
- Smooth rotational torque over its entire 50,000 cycle lifespan, with a variation of < 20 %

## The Key Specifications:

- Element: cermet
- Dielectric strength: 1500 VRMS
- Operating temperature range:  $-55$   $^{\circ}$ C to  $+125$   $^{\circ}$ C
- Standard resistance values: 1 k $\Omega$ , 4.7 k $\Omega$ , 10 k $\Omega$ , 47 k $\Omega$ , and 100 k $\Omega$
- Contact resistance variation: 2 % or 3  $\Omega$
- TCR:  $\pm 150$  ppm/ $^{\circ}$ C



## NEW PRODUCT INFORMATION



**Product Group:** Vishay Sfernice, Potentiometers / **November** 2021

### Availability:

Samples and production quantities of the P11H are available now, with lead times of 16 weeks.

To access the product datasheet on the Vishay Website, go to

<http://www.vishay.com/ppg?51087> (P11H)

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