



obp Motorsport Pro-Race

DBW Dual Core Potentiometer

Rugged Construction – Responsive - Long Life - Compact Design

This Linear Potentiometer is designed to withstand the harsh environment in a Motorsport applications. Using proven 'conductive plastic' technology, the sensors offer high performance and reliability.

Specifications:

- Maximum Supply Voltage – 40 VDC,
- Resolution – Essentially Infinite,
- Repeatability - $\leq 0.01\text{mm}$,
- Operational Speed - 10 M/s max,
- Mechanical Life - > 25 Million Cycles,
- Recommended Wiper Current - $< 10\mu\text{A}$,
- Independent Linearity - $\leq \pm 0.5\%$

Connection & Output Details

6 Core Cable

Track 1

- Red = +V
- Black = 0V
- Yellow = Signal

Track 2

- Brown = +V
- Blue = 0V

- White = Signal

Displacement

- Fully Closed = +Vmax
- Fully Open = 0V

The displacement signals may be reversed by swapping the connections to the Red & Black wires or Brown & Blue wires, providing +Vmax output when Full Open & 0V when fully closed.

DO NOT connect +V supply to the Yellow and White (signal) wires, as this may cause damage to the sensor element.

