

VTP11 - D-shaft Sensor

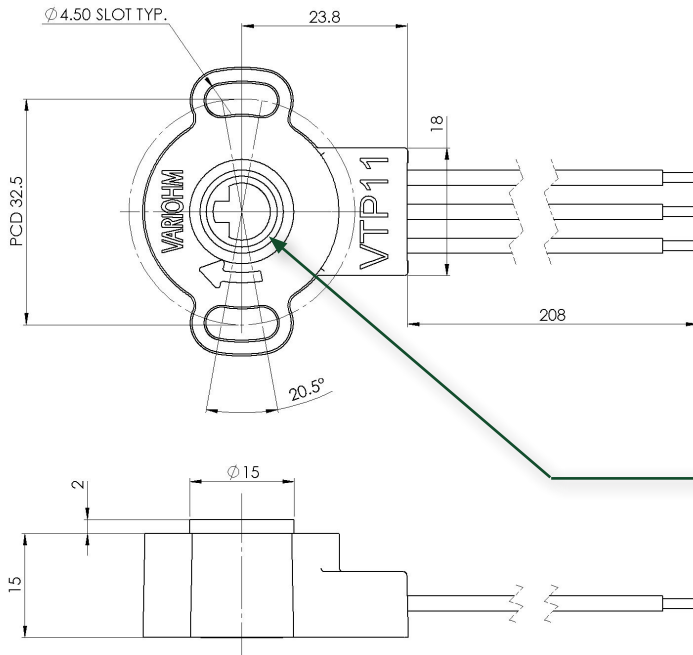


- Simple flange mounting with 8 mm 'D' through-hole drive
- Conductive plastic track for durability
- Multi fingered wipers for excellent contact under vibration
- Long life - 5×10^6 cycles
- Sealed to IP66
- Wide temperature range



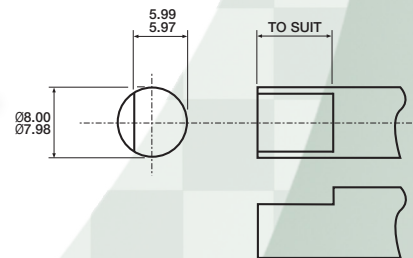
Variohm EuroSensor's new VTP11 rotary position sensor combines well-proven resistive element technology and convenient 8 mm D-shaft mounting in a durable and low cost IP66 rated package that ensures reliable and long-life operation for high performance motorsports - especially for throttle position sensing. Variohm's conductive plastic track and multiple fingered wiper assembly has been designed to maintain full sensing contact even in the most arduous shock and vibration conditions. With a 97° measuring range and $5 \text{ k}\Omega$ throttle range resistance value from a 5...24 VDC input, the VTP11 will suit a wide variety of motorsports and specialist vehicle position sensing applications including throttle, steering angle, suspension and sequential gearbox.

Dimensions (mm) & wiring



Wiring	
Red	Signal
Black	0V Supply (Ground)
White	+5-24 VDC Supply

VTP11 Drive shaft detail



Specifications

Construction	Conductive Plastic Track with multi fingered wipers, ensuring excellent contact under vibration
Life expectancy	5×10^6 cycles
Mechanical rotation	112° max
Electrical rotation	$97^\circ \pm 3^\circ$
Linearity	$\pm 1\%$
Supply voltage	5...24 VDC
Resistance Value	$5 \text{ k}\Omega \pm 20\%$
Environmental sealing	IP66
Temperature range	-25 to $+125^\circ\text{C}$ (Peaks of 150°C for 15 mins)
Connector options	Various options available
Housing material	Glass-filled PBT
Cable type	1-core silicone wire, 20 AWG 256/0.05 copper conductor, O/D: 2.7mm, 3A 1.5kV (208 mm long)

