

# APS72-792-S90

## Contactless Throttle Position Sensor

### Suit Tilton Sensor Mounts



- Hall Effect non-contact Technology
- Long Life - extremely robust
- Custom programmed 90° angle optimised for Tilton Linkages
- Dual channel (redundant output)
- Suitable for use with Tilton part no. 72-792 & 72-794 mounts

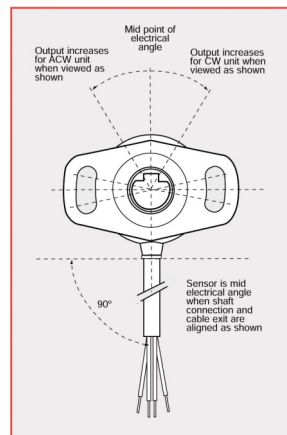
#### ENVIRONMENTAL

<b>Protection class</b>		IP68 (to 2m depth for 1 hour) and IP69K
<b>Life</b>		60 million operations (30 x 10 <sup>6</sup> cycles) of ±75°; Sensing element life is essentially infinite (contactless)
<b>Dither life</b>		Contactless - no degradation due to shaft dither
<b>Operational temperature'</b>	°C	-40 to +140 (5V supply) and +170°C for 72 hours -40 to +135.7 (9V supply option) Derate upper temperature limit by 1.7°C for every 1V increase in supply: e.g. -40 to +100 @30V
<b>Storage temperature</b>	°C	-55 to +140
<b>Vibration</b>		BS EN 60068-2-64:1995 Sec 8.4 (31.4gn rms) 20 to 2000Hz Random
<b>Shock</b>		3m drop onto concrete and 2500g
<b>EMC Immunity level</b>		BS EN 61000-4-3:1999, to 100V/m, 80MHz to 1GHz and 1.4GHz to 2.7GHz (2004/108/EC)

#### Analog Output

<b>Voltage output range</b>			
<b>9-30V supply</b>	<b>Vdc</b>	Absolute voltage, 0.5 to 4.5 (A1) or 0.1 to 4.9 (A4) over measurement range (±3%)	
<b>5V supply</b>	<b>Vdc</b>	Ratiometric output voltage - 10 to 90% (A1) or 2 to 98% (A4) of Vs over measurement range (±1%)	
<b>Monotonic range</b>	<b>Vdc</b>	0.25 (5%) and 4.75 (95%) nominal (A1)	
	<b>Vdc</b>	0.05 (1%) and 4.95 (99%) nominal (A4)	
<b>Load resistance</b>	Ω	10k minimum (resistive to GND)	
<b>Output noise</b>	mVrms	<1	
<b>Input/output delay</b>	mS	<2	

#### ELECTRICAL ANGLE



Cable colour	Description
Red	+V Supply
Black	0V Supply GND
Yellow	CH1 Output
White	CH2 Output