

More Precision



DT3706

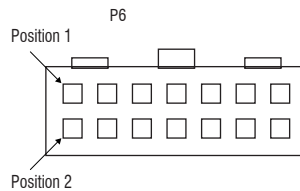
Dual axis differential eddy current displacement system

Consisting of 4 probes and one signal conditioning board

Model	DT3706-U1-PA
Measuring range	$\pm 500\mu\text{m}$
Null gap (Balance point)	$600\mu\text{m}$
Linearity	$\pm 5\%$
Input power	$\pm 15\text{VDC}$, tolerance: $\pm 10\%$ No further filtering is necessary
Ripple	$0.30\text{V}_{\text{rms}}$
Analog output	$9\text{V} \pm 2\text{mV}$, $-9\text{V} \pm 3\text{V}$
Sensor assy bandwidth	5kHz or greater

Sensor Assy Electronic Wiring Color Code

Molex Pin Location	Color	Function
1	blue	+15VDC ¹⁾
3	black	15VDC RTN (GND) ¹⁾
5	orange	-15VDC ¹⁾
7	white	Z+ ²⁾
9	black	Z- (GND) ²⁾
11	red	Y+ ²⁾
13	black	Y- (GND) ²⁾



¹⁾ 15VDC's are twisted triple

²⁾ Y and Z are separate twisted pairs

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Dimensions in mm, not to scale

