

More Precision



DT3706

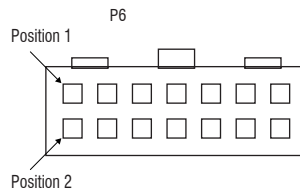
Dual axis differential eddy current displacement system

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

