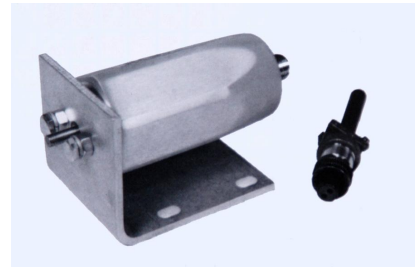




**IRD546DP Inductive Velocity Sensor
Rotor Balancing Applications
Top Connector**



The IRD Mechanalysis model IRD546DP is a high-sensitivity velocity sensor for use in displacement type balancing machines. With the prod magnetically attached to the vibrating part and the case rigidly mounted to a fixed reference, voltage output is directly proportional to vibration velocity. The magnetic prod eliminates alignment problems when installing the sensor. Electrical characteristics of the IRD546DP are the same as the proven IRD544 vibration sensor.



Accessories	Qty	Part Number
Cable connector	1	M43660
Magnetic Prod (Spare)	1	M10170

Specification

Performance

- Frequency Response: - 0-2,500Hz ± 5%
- Dynamic Range: - 3.17mm pk-pk
- Probe travel: - 9.5mm pk-pk
- Sensitivity: - 42.52 ± 10% mV/mm/sec Pk
- Impedance: - R=2k ohms, L = 0.7 H at 21°C

Mounting

- Orientation: - Sensitive axis horizontal
- Grounding: - Case and Signal Ground common
- Connector: - 2-pin equivalent to MS-3102A-10SL-4P
- Sensor Prod - Directly connected by a magnetic prod to machine motion block

Environmental

- Operating range: - -40°C to 121°C
- Sealed: - To IEC IP50

Weight & Dimensions

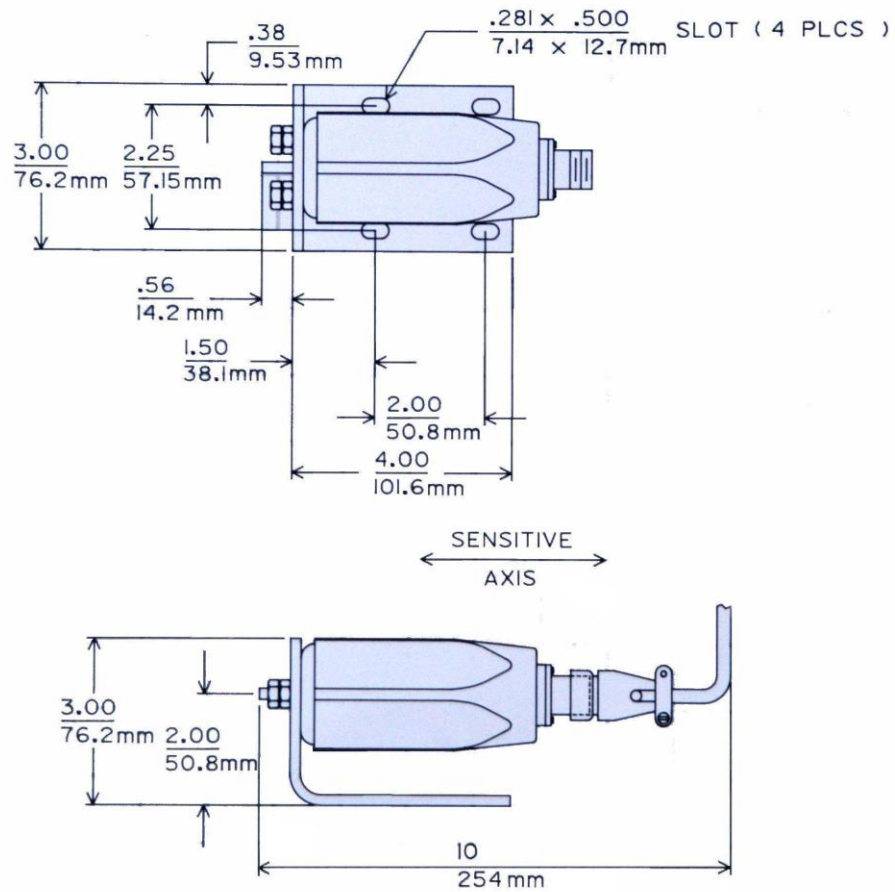
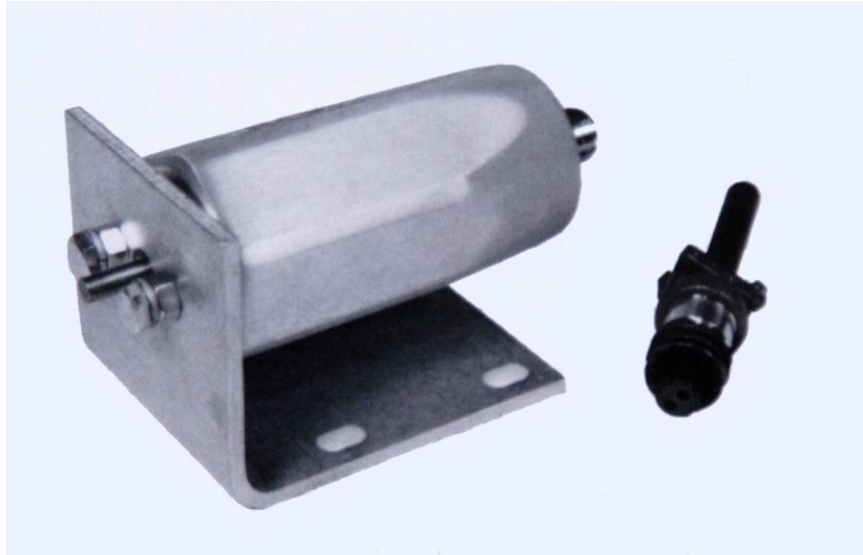
- Weight: - 0.907 Kg
- Dimensions: - 63.5mm (W) x 63.5mm (D) x 138mm (L)

The **Vibration People** of IRD **Mechanalysis** can be contacted at the following branches or your local distributor:

Mumbai	Delhi	Kolkata	Chennai	International
1/5, Marol Co-op. Industrial Estate Ltd, Off. Mathuradas VasANJI Rd. Marol, Andheri (East), Mumbai 400 059	Sagar Deep, Plot No.11 LSC Saini Enclave, Vikas Marg New Delhi 110 092	153/A, 2nd Floor VIP Road Kolkata 700 054	7-C, Chesney Nilgiri Apts 65, Commander-In-Chief Rd Chennai 600 105	1/5, Marol Co-op. Industrial Est. Ltd, Off. Mathuradas VasANJI Rd. Marol, Andheri (E) Mumbai 400 059, INDIA
Tel: +91(0)22-2852-0178 Fax: +91(0)22-2852-1814 sales@irdmech.com Service@irdmech.com	Tel: +91(0)11-2237-3916 Fax: +91(0)11-2237-0778 salesNR@irdmech.com	Tel: +91(0)33-2355-2062 Fax: +91(0)33-2355-9214 salesER@irdmech.com	Tel: +91(0)44-2823-0726 Fax: +91(0)44-2823-4702 salesSR@irdmech.com	Tel: +91-22-2852-0178 Fax: +91-22-2852-1814 sales@irdmech.com

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PRODUCT SPECIFICATION



IRD Mechanalysis Ltd. continuously improves products; it therefore retains the right to change the above specification without notice