

**LOW COST,
HIGH ACCURACY**

**POSITION
TRANSDUCERS**

**CUSTOM DESIGNED
FOR OEM USERS**

Farrand High Gain Inductosyn® linear and rotary position transducers custom designed to meet size, accuracy, and environmental requirements, can be delivered at \$10.00 to \$20.00 each in production quantities.

Accuracies to ± 50 microinch, repeatability to ± 20 microinch. Pitch to user specification; .010" to .020" typical. Auxilliary control signals, such as End of Travel or Track Location, can be included. Any substrate material, from cast aluminum to fiberglass tape. Thermal time constant adjustable to match user structure, eliminating inaccuracies during warmup.

Capacitively coupled. Ideal in strong magnetic fields. Interface easily to MOS. Use any excitation, such as 250 kHz user system clock. IC packages containing complete oscillator, error amplifier, and AGC available.

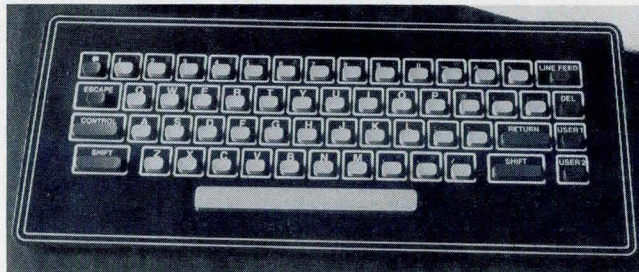
Contact George Quinn,
(914) 761-2600 or Telex: 646640.
Or send now for technical bulletin.

FARRAND CONTROLS

Division of Farrand Industries, Inc.
99 Wall Street Valhalla, NY 10595
(914) 761-2600 Telex: 646640

PRODUCTS

Microprofile 58-Key Sealed Keyboard Meets European Safety Standards



Model MK 038-001 keyboard meets ergonomic standards (safety regulations) required by European countries (VED, DIN, VDI, and ZH documents). Overall keyboard profile is approx 0.400" (1.016-cm), allowing improved packaging for portable and desktop applications. The keyboard provides a crisp tactile feedback to the operator, which coupled with the shorter 0.060" (0.152-cm) travel allows faster throughput. The patented 2.8-oz (79-g) force key-switch construction provides hysteresis that eliminates teasing. Metal dome keyswitches are sealed from the environment to extend the life of the keyboard. Legends are graphically applied on the bezel to provide advanced styling, or can be added to the buttons to allow more than one operating mode for the keyboard. The unit mounts from the front of the enclosure or flat panel via 8 male mounting studs. Key spacing, operating force, and row offset are that of a conventional typewriter. Nom specs include 15M MCBF, 2-ms bounce, and 2- Ω contact resistance. Switch outputs are terminated at 0.025" (0.064-cm) straight pins located on the backside of the PC board. Switch matrix is an 8 x 8 array. **Advanced Input Devices**, PO Box 1818, Couer d'Alene, ID 83814.

Circle 204 on Inquiry Card

Portable Information Media Integrates Dynamically Updatable Memory

The Information Key is a small lightweight key-shaped device of strong ABS plastic construction that encapsulates an alterable nonvolatile random access memory. Data stored may be read, written, or updated in whole or in part when the key is inserted into any device with an appropriate receptacle. Random access to data in the key occurs at millisecond speed utilizing electronic devices with no mechanical parts to wear or misalign. With normal usage, the electrically alterable memory has a tolerance of 10^9 read accesses between writes and 10^6 erase/write cycles. The device may contain any data set or sets. Information for specific uses can be stored in secure format within the key. Multiple concurrent information uses can coexist, and may be managed by access devices. **Datakey, Inc.**, 7710 Computer Ave, Minneapolis, MN 55435.

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