

## Low profile full-travel keyboard



The KD131 full-travel keyboard measures under 19 mm from keycap to frame assembly, with an overall height under 25 mm. A full 0.150" (0.381-cm) travel is maintained while meeting the 30-mm DIN spec. Keyboard comes with or without enclosure. Numeric pad, function keys, auto-repeat keys, separate cursor control pad, and lighted LED shift key are included. A 10-bit 300-baud serial async RS-422 output is provided, with all signal levels TTL compatible positive logic, capable of driving at least 1 TTL load. **Digitran, a Becton Dickinson Co, Keyboard Div, 855 S Arroyo Pkwy, Pasadena, CA 91105.**

Circle 392

## Brushless 9.25" pancake motors

A radial air gap motor features rare earth magnets, high torque to inertia ratio, very low cogging, and long life. The short profile motors range in continuous stall torque from 45 to 100 lb/in (5 to 11 N•m). Hall effect sensors in the brushless motor provide precise shaft position information for electronic commutation. The unit can be used in dc and variable frequency ac drives. Standard options include a low ripple brushless analog dc tachometer, encoders, resolvers, and brakes. **Honeywell Motor Products Div, 4301 Kishwaukee St, PO Box 106, Rockford, IL 61109.**

Circle 393

## High output, long-life LED

The Illuminator gives light output comparable to a filtered 0.5-W incandescent lamp, with reported life expectancies of 100k to 1M hours. Encapsulated in a T1-3/4 package, the lamp comes in red or yellow, with 25- or 50-mcd intensity ranges. Chief application is backlighting areas over 1 in<sup>2</sup>. Package contains a clear lens with built-in light reflector for 140° viewing angle. The lamp is resistant to shock and vibration and can be used where incandescent filaments will shatter. **General Instrument, Optoelectronics Div, 3400 Hillview Ave, Palo Alto, CA 94304.**

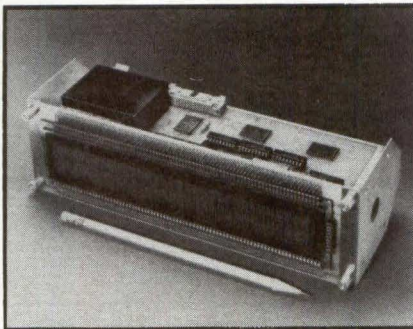
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## Membrane switch

Type F45 membrane switch operates to a max continuous temp of 45 °C at costs typically 40% less than 65 and 85 °C switches. The switch has a 0.005" (0.013-cm) thick polyester layer with B9257 conductive circuitry folded to form flex and stable layers. Tail exits in a planar fashion. A 0.001" (0.003-cm) XB 9207 insulative coating covers all nonkey area conductive tracks to protect circuitry. A 0.002" (0.005-cm) thick proprietary insulative material with adhesive holds the switch layers together, constitutes a spacer between circuit layers, and seals from particulate contamination. **W.H. Brady Co, Xymox Div, 8225 W Parkland Ct, PO Box 571, Milwaukee, WI 53201.**

Circle 395

## Intelligent "plasma" display



A microprocessor controlled, 64-char dot-matrix display system offers 150° viewing area and typical brightness of 190 ft-L. Type APD-064M026 provides plasma display aesthetics without the need to design drive electronics, interface, and voltage conversion circuitry. Chars are 0.26" x 0.16" (0.66 x 0.41 cm), formed by a 5 x 7 dot matrix in 2 rows of 32 chars each. Internal generator provides a 160-char set, including ASCII and Katakana chars. The user-enabled cursor can be fully addressable or auto-incremented. **Dale Electronics, Inc, 2064 12th Ave, Columbus, NE 68601.**

Circle 396

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