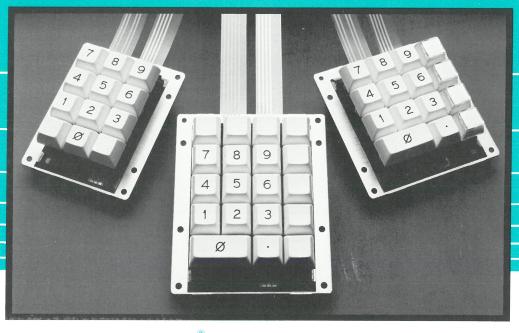
DAK



FTM KEYPADS & SWITCH ARRAYS

Oak's rugged full travel membrane keypad is custom designed to meet the most stringent needs of the user: low cost, long life, and high reliability.

An inherent front sealed design protects the contacts against spilled liquids, dust, and other contaminants, resulting in enhanced reliability and prolonged life.

These keypads feature industry standard full travel (.160 in.) plastic keyparts to facilitate valid data entry. The switch incorporates pretravel, and overtravel—desirable features for ease of operation, input accuracy, and low operator fatique.

The full travel membrane keypad is well suited to a wide range of applications, from P.O.S. to banking terminals—to light industrial machinery and process controls—as well as telephone and PBX systems.

Contact our nationwide network of factory trained sales representatives to assist you in specifying the FTM keypad.

- Low cost
- Reliable
- Environmentally sealed
- Long life
- Ease of interface
- Optional RFI/EMI shielding

Mechanical

Life Expectance: 100 million cycles per key

Switch Action: Momentary (*Alternate Action Available)

Travel: .160 in. nominal with 0.080 in. ± .025 pretravel

Actuation Force: 2.2 ± 0.5 oz. standard (*Other forces are available)

Sculptured or non-sculptured

*Choice of 0° or 11° plunger industry standard .750 centers

*Maximum number of keys: 231

*OEM Only

Electrical

Operating Voltage: 1.0 volts to 30.0 volts, DC or peak AC

Operating Current: 50 µA to 20 mA resistive load

Switch Power: 250 µwatts to 0.5 watt peak power, resistive load

Insulation Resistance: Ambient: 10° ohms; After 96 hrs. at 95% R.H. and 40°C: 107 ohms

Contact Bounce: 500 usec typical; 5 msec for hard rap induced bounce

Switch Interconnections: SPST, X-Y Matrix, or *Switch to common

RFI/EMI Shielding: Optional

Dielectric withstanding voltage: 250 VRMS, 60 Hz between any two circuit traces

CUSTOM ELECTRONICS AVAILABLE

Environmental

Operating Temperature: -0°C (32F) to 65°C (149F)

Storage Temperature: -40°C (-40F) to 85°C (185F)

Humidity: Passes MIL-STD 202 method 103 humidity test. 95% R.H. noncondensing at 40°C

Contaminants and Cleaning: Front sealed

STANDARD FTM KEYPADS **AVAILABLE THROUGH DISTRIBUTION**

Standard Features:

Keycap Color: Cream White (T22044) Legend Color: Black **RFI/EMI Shielding

Switch Resistance: 100 ohms max.

Custom Keycap - Legends

- Colors - Shapes

Custom Engraving

3 x 4 Matrix

12 Keycaps Part No. 5-64951-051

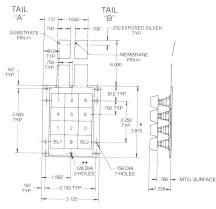
4 x 4 Matrix

15 Keycaps Part No. 5-64951-052

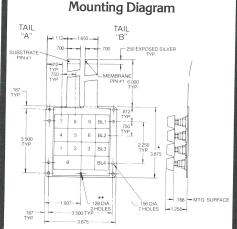
4 x 5 Matrix

19 Keycaps Part No. 5-64951-053

Mounting Diagram

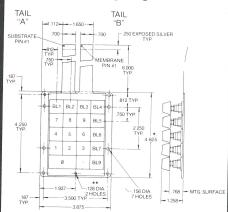


★Allow for a .025" break off burr both ends



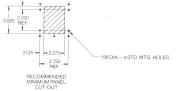
*Allow for a .025" break off burr both ends

Mounting Diagram

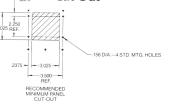


*Allow for a .025" break off burr both ends

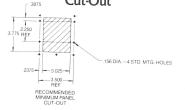
Cut-Out



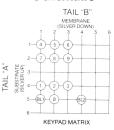
Cut-Out



Cut-Out

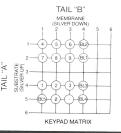


Schematic



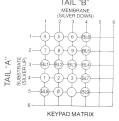
2 Blank Keycaps—Suitable for engraving Keycap Marking: Ø Through 9 Gorton Modified Type

Schematic



4 Relegendable Keycaps 2 Active Switches for Ø (Ø and BL5) Keycap Marking: . and Ø Through 9— Gorton Modified Type

Schematic TAIL "B"



8 Blank Keycaps—Suitable for engraving 2 Active Switches for Ø (Ø and BL8) Keycap Marking: . and Ø Through 9-Gorton Modified Type

^{**.128} Diameter hole provided for connecting mounting plate and tip shield to ground.



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