



SECURE-TECH

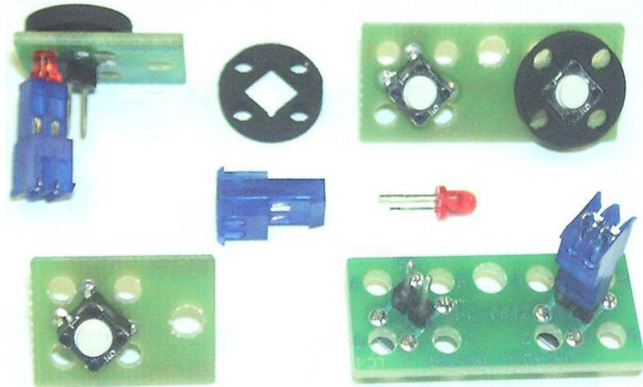
DETENTION ELECTRONIC SYSTEMS
ETECH CONTROLS CORPORATION - MANUFACTURER
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**MODEL
HC-0841 &
HC-0842**

SINGLE AND DUAL MEMBRANE SWITCH PACKAGES

FEATURES:

- RAPID CUSTOM PANEL DEVELOPMENT
- 1 MILLION ACTUATION LIFE SWITCHES (MIN)
- FOR HIGH DENSITY LONG LIFE APPLICATIONS
- ACCEPTS UP TO 4 LEDS PER SWITCH
- 1 LED(S) LIGHT ALIGNMENT DISK PER SWITCH
- REAR MOUNTED FOR EASY REPLACEMENT
- ALL PLUG CONNECTION (NIC)
- 2 YEAR WARRANTY
- REPLACE FROM THE BACK OF PANEL



FUNCTIONAL DESCRIPTION:

These membrane switch ASSEMBLIES provide an effective and highly reliable means, to allow the easy and efficient production of custom membrane style control panels, with a very high density of switch and indication functions.

These switch ASSEMBLIES are designed to screw (4-40UNC x 1/4") attach to the backside of a 3/16" thick subplate for ease of panel wiring and maintenance service, AVOIDING the painstaking maintenance removal of the membrane panel faceplate overlay material, in order to access underlying components that are mounted to the face side of the subplate, as required in the construction methods utilized by some other manufacturers.

Each switch location is provides four holes LED mounting locations, designed for interference-fit installation of tapered T-1 size LEDs. The four separate LED mounting holes allow the switch packages to be rotated at four different 90° angles, to facilitate close location to adjacent switch ASSEMBLIES, while maintaining the LED locations in relationship to the switche, i.e. top left, etc.. Four LEDs can be mounted to indicate multiple functionality associated with each switch.

A formed LED projection disk is provided with each switch assembly. The disk slip-fits around the switch and up to four LEDs projecting each LED's illumination precisely through the membrane panel overlay material. "Bleeding" is restricting from other LED locations, providing a crisp pattern.

A 0.563" diameter hole must be provided in your 3/16" thick panel (normally aluminum) subplate, centered on each switch location. It is recommended that the hole be chamfered at a shallow (10° to 30°) angle from the face surface to remove any sharp edge that the membrane overlay material will flex against during switch operation. This should prevent any long-term use cracking of the overlay material at the flex points. Also provide one 4-40UNC threaded hole per HC-0841 or HC-0842 membrane switch assembly for attachment.

Membrane switch spacing is 0.75" (19.05mm) center to center. Do not space membrane switch packages at any smaller dimension.

SWITCH RATINGS:

Maximum load	50 ma @ 24 vdc (resistive)
Minimum load	1 ma @ 5 vdc (resistive)
Contact resistance	100 milliohm max
Service life (minimum)	1 x 10 ⁶ mechanical / electrical

SIZE:

HC-0841	0.56" W x 0.81" L x 0.56" D 14.28mm W x 20.64mm L x 14.28mm D
HC-0842	0.56" W x 1.31" L x 0.56" D 14.28mm W x 33.34mm L x 14.28mm D

MODELS:

HC-0841	Single Membrane Switch Package
HC-0842	Dual Membrane Switch Package

