T-15S KEYBOARD SWITCH SEALED CONTACT SERIES

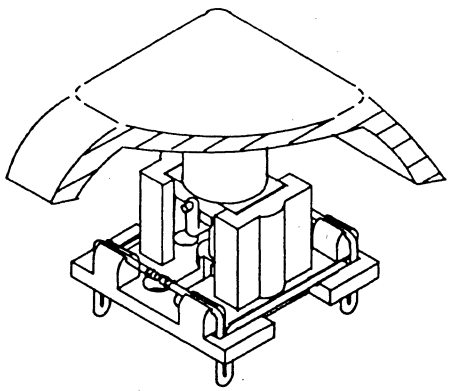
Preliminary April, 1985

FEATURES

The T-15S Keyboard Switch meets a growing industry requirement for a very low profile full travel unit easily handled in a production wave soldering operation. Its unique sealed contact* insures long reliable life. Primary features are:

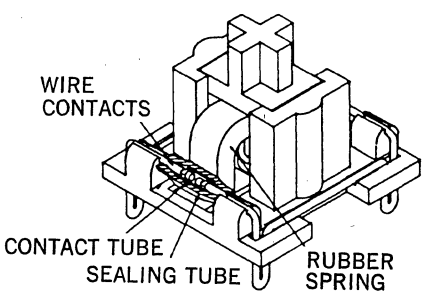
- SEALED LOW RESISTANCE LOW BOUNCE CONTACTS
- VERY LOW COST—COMPETES WITH CONDUCTIVE RUBBER
- LOWEST PROFILE (12.7 mm) WITH FULL TRAVEL (3.8 mm)
- BUILT-IN WIDE JUMPERS ALLOW SINGLE SIDED MATRIX
- TACTILE RESPONSE WITH OR WITHOUT AUDIBLE CLICK
- SPRING-LIKE TERMINALS HOLD SWITCH WHILE SOLDERING
- INDUSTRY STANDARD CRUCIFORM KEYTOP MOUNT
- STABLE MOUNTING WITHOUT METAL SUB-PANEL
- EXCELLENT PLUNGER TRACKING HANDLES ECCENTRIC OPERATION
- CENTER-TO-CENTER MOUNTING AS CLOSE AS 12.7 mm

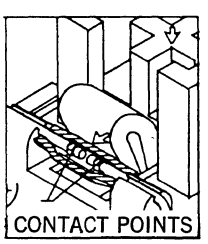
* Patent Pending



DESCRIPTION OF CONTACTS

During operation rubber spring collapses into an inverted 'U' position providing a 'break-away' tactile sensation. Its lateral deflection forces the contact tube to bridge between points on the wire terminals. The silicone rubber tube maintains a seal throughout and its resiliency restores contact to normally open condition.





OPTIONS

A unique OPTIONS BLOCK inserted in the switch body opposite the contacts will provide either an audible click for momentary switches or will convert a momentary switch to alternate action.

The optional HINGE COVER (available August 1985) will allow sub-panel mounting and provide a hinge for leveling bars which are required for very wide keytops.

KEYTOPS

The T-15 keytop mount is the most frequently used cruciform style (equivalent to Cherry MX and others). Therefore several keytop manufacturers in the U.S. and abroad are able to supply, without a tooling charge sculptured and conventional keytop sets for the T-15. Legends are available either double-shot molded or sublimation printed. MEI stocks a limited selection of keytops for prototyping and low volume applications.

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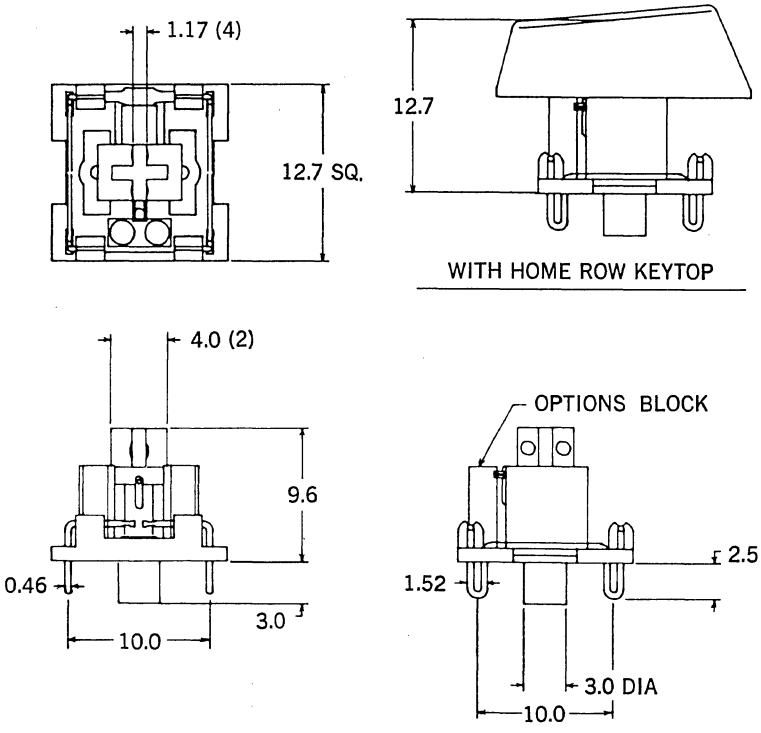
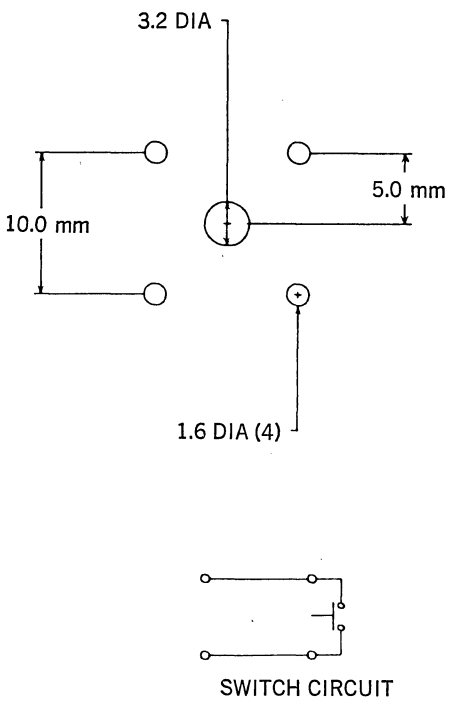
MEI T-15S KEYBOARD SWITCH SEALED CONTACT SERIES

SPECIFICATIONS	Momentary	Alt. Action
CONTACT RATING, DC RESISTIVE	1W Max	1W Max
VOLTAGE	24V Max	24V Max
INITIAL CONTACT RESISTANCE	100 m ohm Max	100 m ohm Max
PLUNGER TRAVEL	3.8 mm	3.8 mm
PRE-TRAVEL	1.9±0.6 mm	1.9±0.6 mm
OPERATING FORCE TO MAKE	65±20 gm	65±25 gm
TEMPERATURE RANGE, OPERATING	—20°C to 65°C	—20°C to 65°C
TEMPERATURE RANGE, STORAGE	—40°C to 85°C	—40°C to 85°C
CONTACT BOUNCE	5 ms MAX	5 ms MAX
UL FLAMMABILITY RATING	94-HB	94-HB
LIFE, ACTUATIONS	20×10^6	10×10^4

OUTLINE DRAWING



PCB HOLE PATTERN



MODEL NUMBERS
T-15SB = Basic Momentary
T-15SC = Momentary with Click
T-15SA = Alternate Action

MOUNTING AND SOLDERING
Layout to pattern shown above. Switching should be snug in PCB. Hand or wave solder using water soluble flux or flux that requires no cleaning. Water wash. USE NO SOLVENTS.

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