

## MICROSWITCHES

### STANDARD

### TYPE K1

Standard Microswitches type 'K1' bear the safety and quality mark of 'kaycee'. In spite of small casing dimensions, the creepage distance and clearance in air are so designed that maximum safety is ensured. Precision in design and manufacture as well as the high quality of the material used, results in long mechanical and electrical life. Switches are tested for compliance with the characteristic data to ensure quality. The Switch with its actuating member and auxiliary devices has a wide application in industrial and electronic control.

**EXECUTIONS :** Kaycee Standard Microswitches are available in three different types of bases as shown below. The various types of Actuators are shown on the reverse page and the basic switch can be supplied with any of these Actuators to suit individual requirements. While ordering please specify the type of base and actuators required.

**SPECIFICATIONS :** Conforms to JSS 51 204 & ISS 6089.

**CIRCUITRY :** Type K1 is available in Single pole providing 1 NO and 1 NC contact arrangement.

**MATERIAL :**

- a) Housing & Cover - Best quality electrical grade phenolic material with high insulating property.
- b) Contact Material - Silver
- c) Terminals - Brass
- d) Plunger - Stainless Steel
- e) Contact Bridge - Beryllium Copper properly heat treated
- f) Springs - Contact bridge acts as a leaf spring
- g) Actuators - Depends upon the type of actuator Thermo Plastic, M.S. Stainless Steel, Aluminium, Brass, Spring Steel etc.

**TERMINALS :** Screw and Solder type.

**NOMINAL RATING :** Switches with :

Soldered Terminals	Screw Terminals
5A/250V AC	15A/250V AC
0.25A/250V DC	0.25A/250V DC

**NOTE: Concealed terminal Switches available in 5 Amp/250 V.AC Rating**

**HIGH VOLTAGE TEST:**

Switches withstand, 2 KV AC between current carrying parts and accessible metal parts 1 KV AC between open contact

**Operational range: - 40° C to + 85° C**

**Life (elec. & mech.)**

- a) Mechanical :- 10,000,000 operations.
- b) Electrical :- 100,000 operations at rated resistive current under normal conditions.

**CONTACT RESISTANCE :** 10m Ohm (Max)

**INSULATION RESISTANCE :** 100 m Ohm (Min)

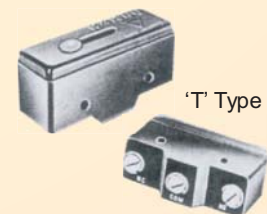
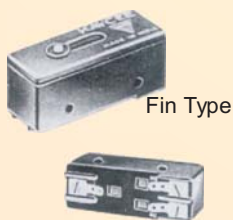
**OPERATING CHARACTERISTIC :**

**ACTUATING FORCE :** 425 gms. (Max)

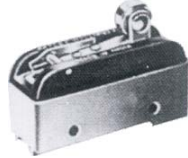
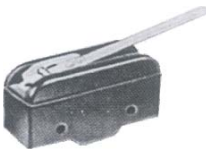
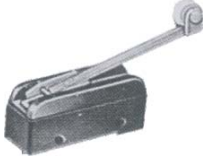


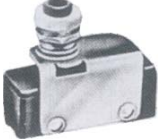

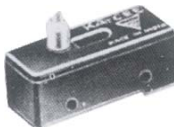
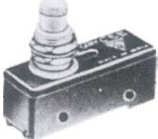
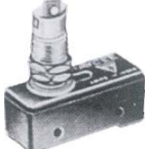
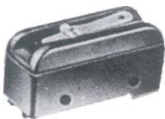
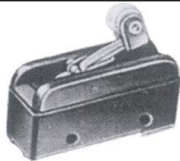



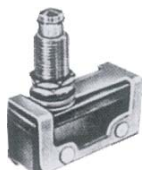


**RELEASE FORCE :** 110 gms. (Min)

**MOVEMENT DIFFERENTIAL :** 0.08 (Max)

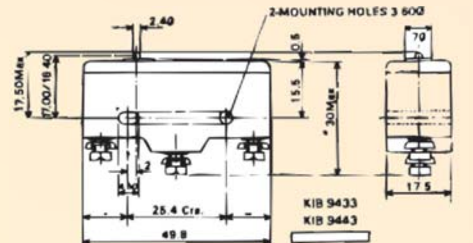
**OVER TRAVEL :** 0.20 (Min).



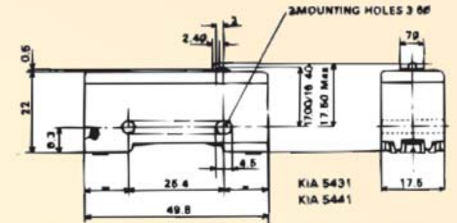
# ACTUATORS

02  Short Roller Lever	03  Plain Lever ( Direct Acting )	04  Plain Roller Lever ( Direct Acting )
06  Flexible Leaf	07  Flexible Roller Leaf	12  Finger Push Button
20  Compact Overtravel Plunger	21  Extended Overtravel Plunger	22  Panel Mount Plunger
23  Panel Mount Roller Plunger	25  Short Plain Lever (Reverse Acting )	26  Short Plain Lever with Roller ( Reverse Acting )
27  Medium Plain Lever ( Reverse Acting )	28  Medium Plain Lever with Roller ( Reverse Acting )	29  Auxilliary Panel Mount Roller Plunger
31  Auxilliary Panel Mount Plunger	32  Protected Overtravel Plunger	35  Plain Lever (Reverse Acting) with PVC

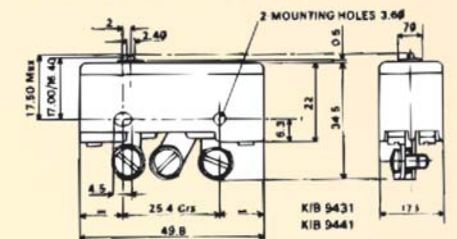
# DIMENSION



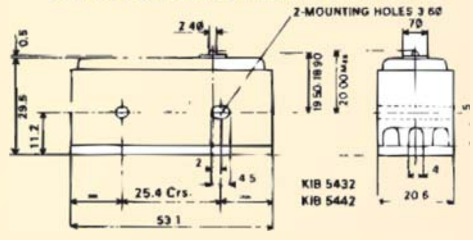
'T' TYPE BASE WITH SCREW TERMINALS



FIN TYPE WITH SOLDER TERMINALS



FIN TYPE WITH SCREW TERMINALS



CONCEALED TERMINALS

GENERAL TOLERANCES	
FULL FIGURE	±1
UPTO 1ST DECIMAL	±0.5
UPTO 2ND DECIMAL	±0.25



Product improvement being a continuous process at Kaycee. The product supplied may differ from that illustrated and described in the literature



Manufactured by :  
**KAYCEE INDUSTRIES LIMITED**

32, Ramjibhai Kamani Road, Ballard Estate,  
Mumbai - 400 001.  
Tel. : +91 (22) 2261 3521 / 22 / 23  
Fax : +91 (22) 2261 6106  
E-mail : kayceindltd@vsnl.com  
Website : www.kayceeindustries.com

**Branch Offices :**  
Delhi : 0931 20 04687  
Kolkata : 093392 00968  
Indore : 093007 51464  
Bangalore : 093428 53324  
Chennai : 093812 01556



01-01-2010