

engineering data

Switch Characteristics

The "miniature/subminiature" basic switches used in all MCC switch packages are compact, single-pole, double-throw, snap-acting switches. The action of each switch is positive and reliable, with a rolling contact that insures clean breaking and a long life. The stationary contacts are integral with the terminals.

Contacts are made of solid silver, or of gold-clad, solid silver to assure low electrical and heat resistance. All spring mechanisms and all non gold-clad contacts are gold plated for maximum corrosion resistance. Solid gold-clad contacts are used for "dry circuit", low current applications.

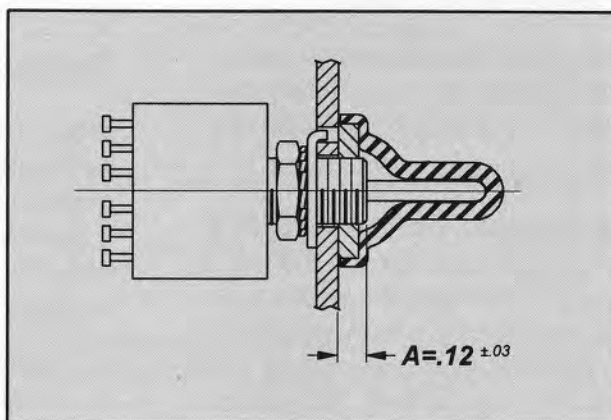
The standard switch case material is a molded phenolic resin (Bakelite®), having good electrical insulation and providing excellent mechanical protection for the internal switch elements. Optionally, cases of molded Diallyl Phthalate plastic are also available. This material offers superior electrical resistance, very low water absorption, and flame resistance characteristics which meet MIL-M-14. Additionally, Diallyl Phthalate encased switches meet MIL-S-8805, MS24547-1 and MS24547-2.

Further information on switch characteristics and materials may be found in the table above.

Installation of Switches With Panel Seal Boots:

When installing switches with panel seal boots, it is extremely important to maintain Dimension "A" as shown in the adjacent drawing.

	Standard Switch Package	".5" Switch Package	".6" Switch Package
Materials			
Switch Case:	Phenolic	Diallyl Phthalate	Diallyl Phthalate
Contacts:	Solid Silver	Solid Silver	24 K Solid Gold Overlay
Terminals:	Solid Brass Nickel/Gold Plated	COMMON: Solid Brass Nickel/Gold Plated	COMMON: Solid Brass Nickel/Gold Plated
		N.O. & N.C. Solid Silver Nickel/Gold Plated	N.O. & N.C. Solid Brass Nickel/Gold Plated
Temperature Range	-65°F to +250°F (-54°C to +121°C)	-65°F to +185°F (-54°C to +85°C)	-65°F to +185°F (-54°C to +85°C)
Load			
Voltage & Type	Amps.		
28 VDC. Res. (Sea Level)	7.0	7.0	1.0
28 VDC. Ind. (Sea Level)	4.0	4.0	0.5
28 VDC. Res. (50,000 Ft.)	4.0	4.0	1.0
28 VDC. Ind. (50,000 Ft.)	2.5	2.5	0.5
U.L. & C.S.A. Listed	7A., 250VAC.	7A., 250VAC.	1A., 125 VAC.
Meets MIL Spec:	None	MIL-S-8805 MS24547-1 MIL-M-14	MIL-S-8805 MS24547-2 MIL-M-14



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& ordering information

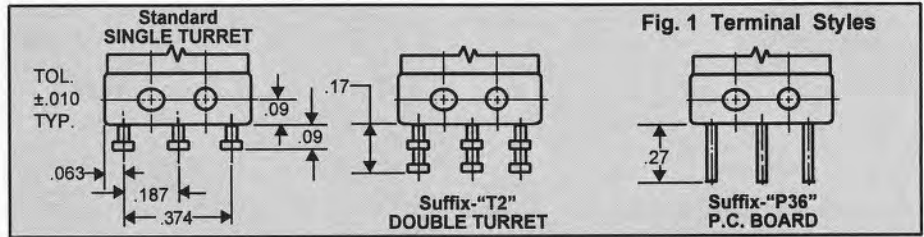
When ordering, please specify model number plus any of the following additional suffix designations to indicate the desired options.

Option 1. Switch Option

- a. Standard Switch Package, Phenolic Case No Suffix.
- b. Diallyl Phthalate Case/Solid Silver Contacts Add Suffix "-5".
- c. Diallyl Phthalate Case/Gold Overlay Contacts Add Suffix "-6".

Option 2. Terminal Style (Fig. 1)

- a. Standard Terminal Style, Single Turret No Suffix.
- b. Double Turret Style... Suffix "-T2"
- c. P.C. Board Mount... Suffix "-P36"



Option 3. Handle Option

- a. Straight Handle..... Suffix "-J" (Available on Momentary Contact Switches Only.)
- b. Regular Bat Handle.... Suffix "-B" (Standard on All Maintained Contact Switches Only.)
- c. 1" Long Bat Handle... Suffix "-B1"
- d. 1¼" Bat Handle..... Suffix "-B1¼"
- e. 2" Bat Handle..... Suffix "-B2"
- f. Paddle Handle..... Suffix "-P"

Option 4. Boot Option (Table)

- a. Without Boot..... No Suffix
- b. Full Boot..... Suffix "-E"
- c. Full Boot (Anti-Static Conductive Rubber)..... Suffix "-EC"
- d. Half Boot..... Suffix "-EH"

Other Options

Consult factory for special designs required to meet custom specifications. Examples include custom levels of operating force, special handle styles, materials or finishes.

BOOT OPTION TABLE

Boot Option	"-E" Boot Option	"-EH" Boot Option	"-EC" Boot Option
Style	Full-Boot	Half-Boot	Full-Boot
Material	Silicon Rubber Nickel-Plated, Brass Nut	Silicon Rubber Nickel-Plated, Brass Nut	Conductive Silicon Rubber Nickel-Plated, Brass Nut
Color	Gray or Black	Gray or Black	Black Only
Reference	Photo Above	Photo Above	Photo Above
Temperature	-94°F to +400°F (-70°C to +205°C)	-94°F to +400°F (-70°C to +205°C)	-94°F to +400°F (-70°C to +205°C)
Pressure	15 PSI Internal or External	15 PSI Internal or External	15 PSI Internal or External
Chemical Resistance	Salt Spray Acids, Sunlight, Ozone	Salt Spray Acids, Sunlight, Ozone	Salt Spray Acids, Sunlight, Ozone
Meets MIL Specs	MIL-B-5423	MIL-B-5423	MIL-B-5423
Additional Switch Actuation Force Required?	Yes	Yes	Yes



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