

P Series

Low Profile Key Switches



Features/Benefits

- Low profile design
- Multi-pole and multi-position
- Panel and PCB mounting
- Variety of termination styles
- RoHS Compliant

Typical Applications

- CATV
- Low cost security devices
- Lawn equipment



Specifications

CONTACT RATING: Q contact material: 4 AMPS @ 125 V AC or 28 V DC; 2 AMPS @ 250 V AC (UL/CSA). See page L-46 for additional ratings.

ELECTRICAL LIFE: 10,000 make-and-break cycles at full load.

CONTACT RESISTANCE: Below 10 mΩ typ. initial @ 2-4 V DC, 100 mA, for both silver and gold plated contacts.

INSULATION RESISTANCE: $10^9 \Omega$ min.

DIELECTRIC STRENGTH: 1,000 Vrms min. @ sea level.

INDEXING: 45° or 90°, 2-3 positions. Other functions available, consult Customer Service Center.

OPERATING & STORAGE TEMPERATURE: -30°C to 65°C

Materials

HOUSING: One piece, 6/6 nylon (UL94V-2), black. Finish, matte.

KEY: One nickel plated brass key.

CONTACTS AND TERMINALS: Q contact material: Copper, silver plated. See page K-46 for additional contact materials.

CONTACT SPRING: Music wire or stainless steel.

TERMINAL SEAL: Epoxy.

NOTE: Any models supplied with Q, B or G contact material are RoHS compliant.

NOTE: Specifications and materials listed above are for switches with standard options. For information on specific and custom switchlocks, consult Customer Service Center.

Build-A-Switch

To order, simply select desired option from each category and place in the appropriate box. Available options are shown and described on pages K-41 thru K-42. For additional options not shown in catalog, consult Customer Service Center.



K

Rotary

Switch Function

- P10113** SP, 90° Index, Keypull pos. 1
- P20013** DP, 45° Index, Keypull pos. 1
- P20113** DP, 90° Index, Keypull pos. 1
- P1011U** SP, 90° Index, keypull pos. 1 & 2
- P2011U** DP, 90° Index, keypull pos. 1 & 2

Keying

- 3** One nickel plated brass key
- 2** Two nickel plated brass keys

Type

- W** Low profile key switch

Finish

- M** Matte finish

Terminations

- 03** Solder lug with hole
- 02** PC Thru-hole
- WC** Wire lead

Mounting Style

- N** With nut

Contact Material

- Q** Silver
- B** Gold
- G** Gold over silver

Seal

- NONE** No seal
- E** Epoxy seal

Color

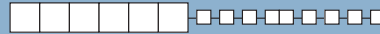
- 2** Black



Dimensions are shown: Inch (mm)
Specifications and dimensions subject to change

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SWITCH FUNCTION



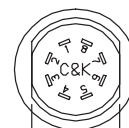
NO. POLES	MODEL NO.	CONNECTED TERMINALS (see terminal location below.)			KEY PULL POSITIONS	SWITCH CONFIGURATION	INDEXING
		POS.1	POS. 2	POS. 3			
DP	P20013	8-1,4-5	1-2,5-6	2-3, 6-7	Position 1	POS.1	45°
SP DP	P10113 P20113	8-1 8-1,4-5	1-3 1-3,5-7		Position 1	POS.1	90°
SP DP	P1011U P2011U	8-1 8-1,4-5	1-3 1-3,5-7		Position 1 & 2	POS.1	

LEGEND

- = Detent Positions (45° or 90°).
- ⊙ = Key pull possible in these positions.
- = Stop positions.

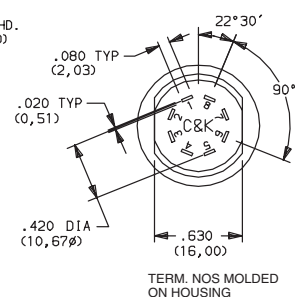
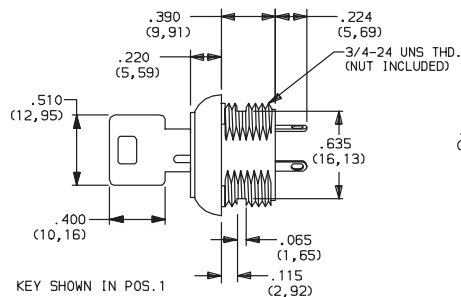
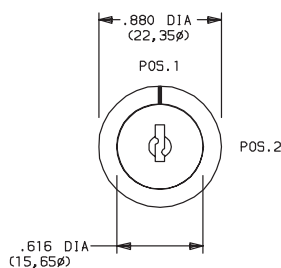
All models with all options when ordered with 'G' or 'Q' contact material.

TERMINAL NUMBERS



Terminal numbers molded on bottom of housing.

.630
(16,00)



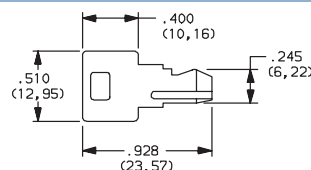
TERM. NOS MOLDED ON HOUSING

KEYING



- 3** ONE NICKEL PLATED BRASS KEY
- 2** TWO NICKEL PLATED BRASS KEYS

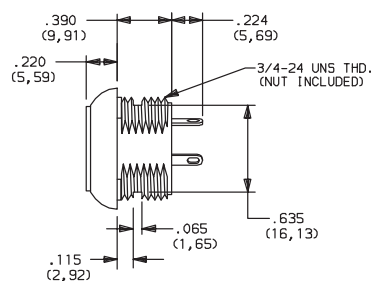
NOTE: All models provided with the same key code.
For replacement keys or special features, consult Customer Service Center.



TYPE

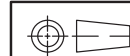


- W** LOW PROFILE KEY SWITCH



OPTION CODE	COLOR
2	BLACK

NOTE: Standard housing color is black. Special colors or mixed housing and key plug colors available, consult Customer Service Center.



Third Angle Projection

Dimensions are shown: mm
Specifications and dimensions subject to change



K

Rotary

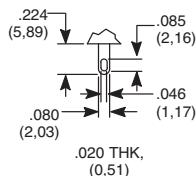
P Series Low Profile Key Switches

FINISH

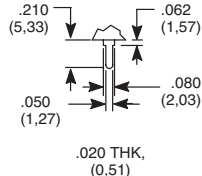
M MATTE FINISH

TERMINATIONS

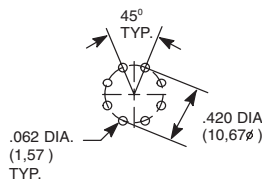
03 SOLDER LUG WITH HOLE



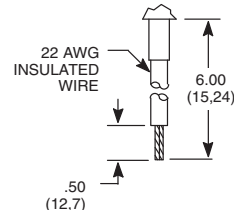
02 PC THRU-HOLE



PC MOUNTING



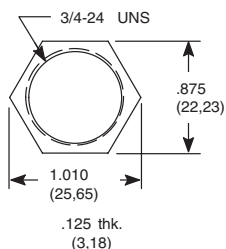
WC WIRE LEAD



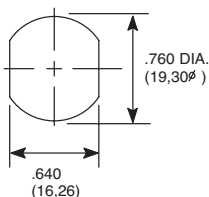
Black wire standard, other colors, gages, and lengths available, consult Customer Service Center. UL style 1015.

MOUNTING STYLE

N WITH NUT



PANEL MOUNTING



MOUNTING STYLE	PANEL THICKNESS
N (with nut)	.215 (5,46) max.

Nut part number: 175050700

CONTACT MATERIAL

OPTION CODE	CONTACT AND TERMINAL MATERIAL	RATING	
Q	SILVER ²	POWER	4 AMPS @ 125 V AC or 28 V DC; 2 AMPS @ 250 AC V AC (UL/CSA).
B	GOLD ¹	LOW LEVEL/DRY CIRCUIT	0.4 VA MAX. @ 20 V AC or DC MAX
G	GOLD OVER SILVER ³	LOW LEVEL/DRY CIRCUIT OR POWER	0.4 VA MAX. @ 20 V AC or DC MAX. or 4 AMPS @ 125 V AC or 28 V DC; 2 AMPS @ 250 V AC (UL/CSA)

* Note: See Technical Data section of this catalog for RoHS compliant and compatible definition and specifications.

¹ CONTACTS & TERMINALS: Copper, with gold plate over nickel plate.

² CONTACTS & TERMINALS: Copper, silver plated (Standard with all termination options).

³ CONTACTS & TERMINALS: Copper, with gold plate over silver plate.

NOTE: Any models supplied with Q, B or G contact material are RoHS compliant.

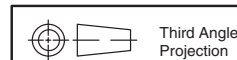
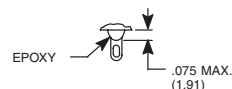
All models  with all options when ordered with 'G' or 'Q' contact material.

NOTE: 'G' contact material is equivalent to both 'B' and 'Q' contact materials.

SEAL

NONE NO SEAL

E EPOXY SEAL



Third Angle Projection

Dimensions are shown: Inch (mm)
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C&K