

FEATURES

- Dry circuit through power ratings .
- Rugged construction SPDT momentary models with numerous options.
- Panel, panel & p.c. and p.c. mounting models, lighted and unlighted.

SPECIFICATIONS

Contact ratings (resistive loads): (Q) power models - coin silver: 6 Amps at 125 VAC, 3 Amps at 250 VAC or 7

Amps at 30 VDC.

(B) dry circuit models - gold over nickel over brass: 0.4 VA max. at 20 V max. UL models - coin silver: 6 Amps at 125 VAC or 3 Amps at 250 VAC (75% power factor). UL file no. E66367. CSA models - coin silver: same ratings as

UL models. CSA file no. LR54592-1. 5 milliohms max. at 3 VDC, 0.1 Amp.

Initial contact resistance: 5 milliohms max. at 3 VDC, 0.1 Amp.
Insulation resistance: 5 milliohms max. at 3 VDC, 0.1 Amp.
Greater than 200,000 megohms between terminals & case ground.

Dielectric strength: Greater than 2000 VAC for 1 minute between terminals & case ground.

Electrical life (resistive loads): 100,000 cycles min. at full load.

Operating temperature range: -30°C to +85°C

Total travel & operating force: .065" (1.6mm) & 19 oz. (approximate values).

MATERIALS

Contacts: Coin silver for power, UL & CSA models. Gold over nickel over brass for dry

circuit models.

Actuator: Glass filled polyester, color white

Bushing: Nickel plated brass Strap: Stainless steel

Case: Melamine phenolic, color red

Terminal seal: Epoxy (optional)

Support bracket: Brass or steel, tin plated

Spring mounting bracket: Stainless steel

Bezel & cap: Nylon. Available in black, red or white. Consult factory for other colors.

Hardware: See 'Miscellaneous' section.

LED: Intensity: 2.0 mcd at 10 mA. Forward voltage: 2.0V (3.0V max.). Max. contin-

uous forward current: 15 mA for red, 30 mA for green & 20 mA for yellow. Red is standard. Yellow & green are optional. Specifications are subject to

change without notice - consult factory.

AGENCY RECOGNITION



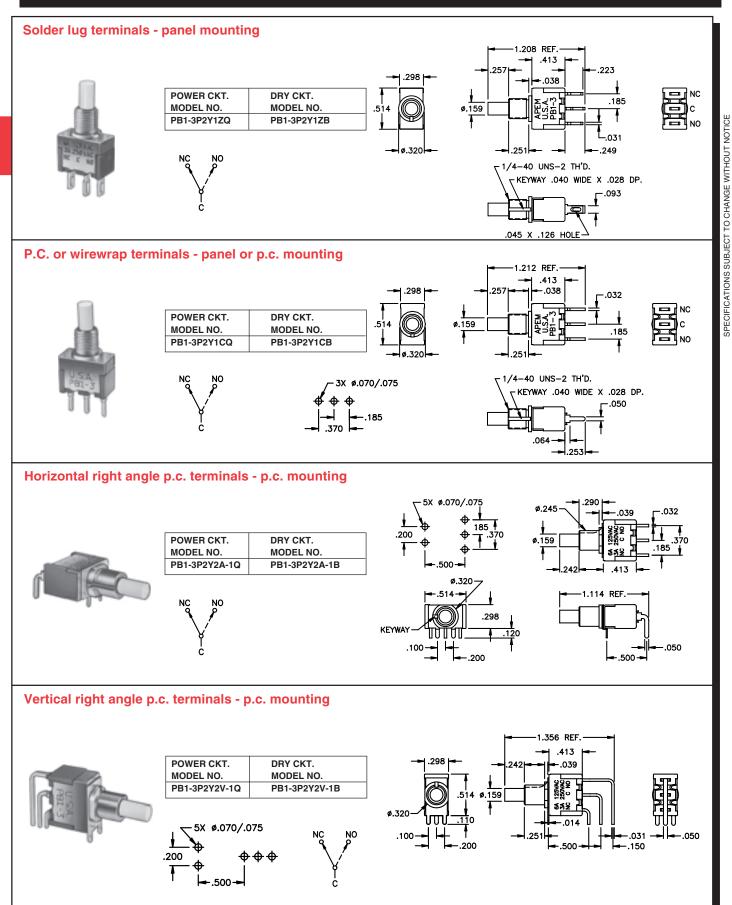


UL, & CSA. Marking: Switches ordered with '/UL' added at end of model no. are supplied with recognition marked. Switches ordered with '/CSA' added at end of model no. are supplied with recognition marked.

ABOUT THIS SERIES

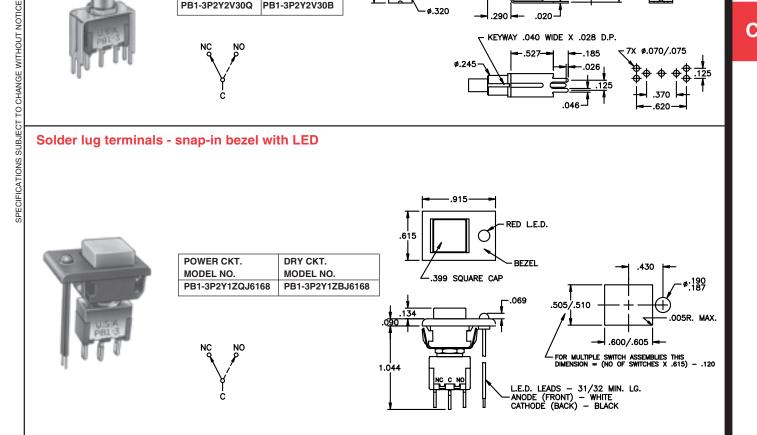
The material in this series is organized in the following sequence:

- a. Completely specified switch models b. 'build your own switch' order format c. Miscellaneous
- d. Option drawings & information e. Panel cut-outs & miscellaneous

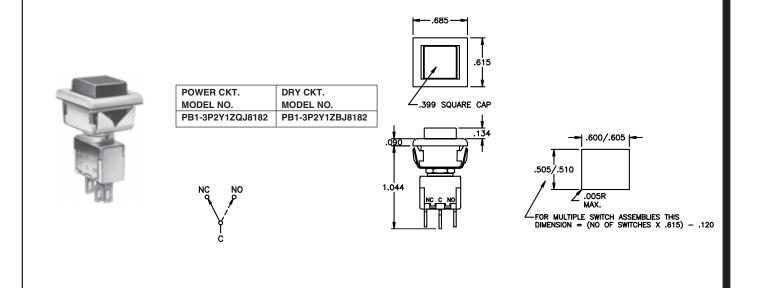


Straight p.c. terminals with bracket - p.c. mounting .030 X .050 TK. ø.159 POWER CKT. DRY CKT. .185 NO MODEL NO. MODEL NO PB1-3P2Y2V30Q PB1-3P2Y2V30B ø.320 KEYWAY .040 WIDE X .028 D.P. 7X ø.070/.075 .185 .620

Solder lug terminals - snap-in bezel with LED



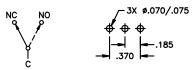
Solder lug terminals - snap-in bezel

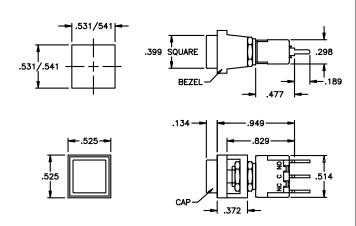


Straight p.c. terminals - p.c. mounting bezel



POWER CKT.	DRY CKT.
MODEL NO.	MODEL NO.
PB1-3P2Y1CQJ8488	PB1-3P2Y1CBJ8488





Straight p.c. terminals with bracket - p.c. mounting bezel

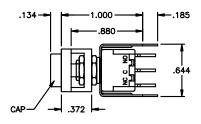


POWER CKT.	DRY CKT.
MODEL NO.	MODEL NO.
PB1-3P2Y1V30QJ8488	PB1-3P2Y1V30BJ8488









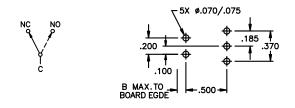
Horizontal right angle p.c. terminals - p.c. mounting bezel

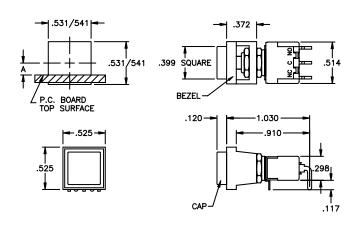


POWER CKT.	DRY CKT.
MODEL NO.	MODEL NO.
PB1-3P2Y1A-1QJ8488	PB1-3P2Y1A-1BJ8488

Option	Dim. A	Dim. B
Α	.148	.045 max.
A-1	.164	.095 max.

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE



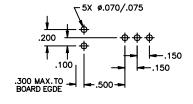


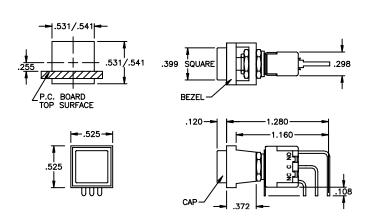
Vertical right angle p.c. terminals - p.c. mounting bezel



POWER CKT.	DRY CKT.
MODEL NO.	MODEL NO.
PB1-3P2Y1V-1QJ8488	PB1-3P2Y1V-1BJ8488





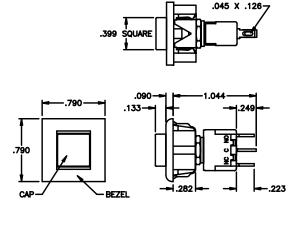


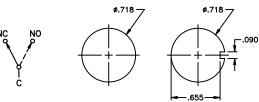
Solder lug terminals - snap-in bezel for round hole mounting

Self-keying against rotation



POWER CKT.	DRY CKT.
MODEL NO.	MODEL NO.
PB1-3P2Y1ZQJ9688	PB1-3P2Y1ZBJ9688





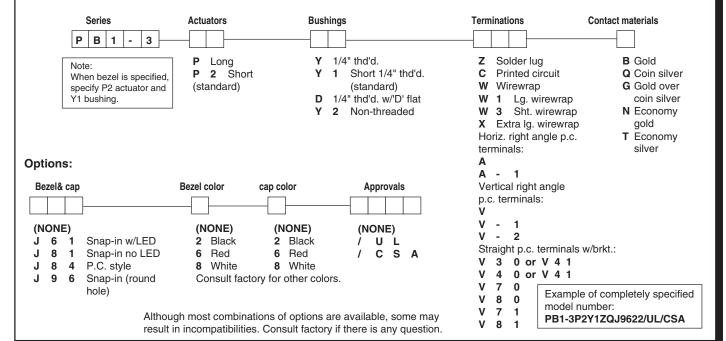
SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

Additional ordering information: Commonly ordered models are shown above and on prior pages with complete model numbers and specifications. Below is an order format that enables you to 'build your own switch' and specify the correct switch model number by simply selecting from all available options shown and filling in the boxes.

'BUILD YOUR OWN SWITCH' ORDER FORMAT

Fill in boxes with selections shown for Model Structure, then add Options selections for complete model number. Allowable options are shown below each respective box with brief description - see option dwgs. & info. following. Note: 'NONE' indicates box may be left empty.

Model Structure:



MISCELLANEOUS

HARDWARE SUPPLIED

(See Hardware section of catalog)

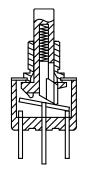
Switches with Y option bushings are supplied with (2) A112 Hex Nuts, (1) A115 Lockwasher and (1) A107 Anti-rotate Ring.

Switches with D option bushings are supplied with (2) A112 Hex Nuts and (1) A115 Lockwasher.

Switches with Y1 option bushings are supplied with (1) A112 Hex Nut and (1) A115 Lockwasher.

Note: Switches with non-threaded bushings or bezels supplied without hardware.

TYPICAL SWITCH CROSS SECTION



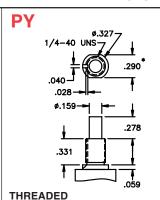
ACTUATOR/BUSHING OPTIONS

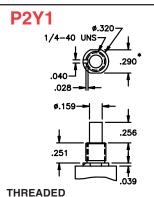
Drawings reflect allowable actuator/bushing combinations.

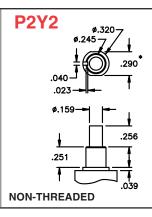
SPECIFICATIONS SUBJECT TO

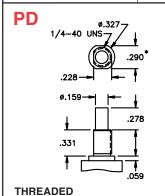
Note for drawings P2Y1 & P2Y2: Asterisk indicates .290 flats are supplied with options A, V, V30, V40, V70, V71, V80 & V81. For other options, .320 Dia. with no flats may be

supplied

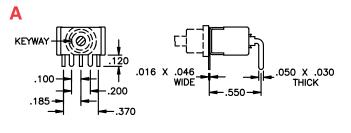




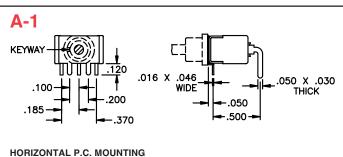




TERMINATION OPTIONS

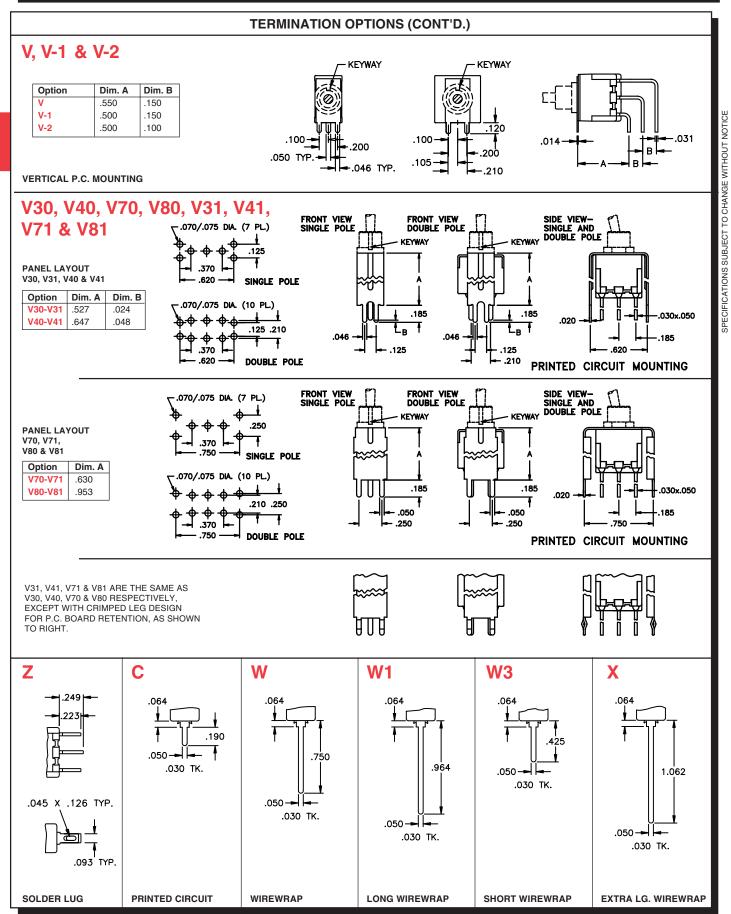


HORIZONTAL P.C. MOUNTING



C

PB SERIES - MINIATURE MOMENTARY PUSHBUTTON SWITCHES



CONTACT MATERIAL OPTIONS

В Dry circuit - gold over nickel over brass.

RATING: 0.4 Volt-Amps (VA) max. at 20 V max.

ELECTRIC LIFE: 60,000 cycles minimum. MECHANICAL LIFE: 500,000 cycles minimum.

Power circuit - coin silver. O

RATING: 6 Amps at 125 VAC, 3 Amps at 250 VAC or 7 Amps at 30 VDC (resistive loads).

ELECTRIC LIFE: 60,000 cycles minimum at full load.

Dry circuit or power circuit - gold over nickel over coin silver. G

RATINGS & ELECTRIC LIFE: Same as B & Q above - i.e. - can be used in either dry circuit or power circuit, however once used in power circuit, switch cannot be re-used in dry circuit. This option satisfies those customers who have both dry circuit and power circuit requirements, but prefer to inventory only one switch for both.

Dry circuit - gold over nickel over brass. Note- less gold than B option. Ν

RATING: 0.4 Volt-Amps (VA) max. at 20 V max.

ELECTRIC LIFE: 10,000 cycles min. at 13 cycles per minute.

Power circuit - Silver plate over brass. Т

RATING: 1 Amp at 125 VAC or 0.5 Amps at 250 VAC (resistive loads).

ELECTRIC LIFE: 10,000 cycles min. at 13 cycles per minute.

Solder dipped terminals and custom contact plating available - contact factory.

UL & CSA OPTIONS

For power circuits - coin silver UL

RATING: 6 Amps at 125 VAC or 3 Amps at 250 VAC (75% power factor).

Underwriter Laboratories file no. E66367. Note - applicable only to terminations with coin silver contacts

(Q or G options).

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

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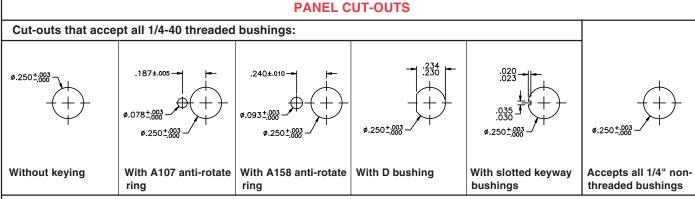
For power circuits - coin silver **CSA**

RATING: 6 Amps at 125 VAC or 3 Amps at 250 VAC (75% power factor).

Canadian Standards Association file no. LR54592-1. Note - applicable only to terminations with coin silver contacts

(Q or G options) as CSA recognizes switches for power applications only.

EPOXY SEALING OPTION REVERSE ACTION OPTION /R Space between terminals To reverse the NO and NC and case hole is completely terminals, add /R to the switch epoxy sealed to prevent model number. flux and contaminant entry.



MISCELLANEOUS

QUICK-CONNECT RECEPTACLES that are compatible with solder lug or p.c. terminals are commercially available. Consult factory.

FRONT PANEL SEAL: Silicone rubber boots for front panel sealing of the switch against high pressure water or other contaminants are available. See Waterproof Switch Sealing Boots section in catalog.

SWITCH CAPS for switches without bezels also available - see Hardware section of catalog