

## 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.
Initial contact resistance: 5 milliohms max. at 3 VDC, 0.1 Amp.
Greater than 200,000 megohms between terminals \& case ground. Greater than 2000 VAC for 1 minute between terminals \& case ground. 100,000 cycles min. at full load.
$-30^{\circ} \mathrm{C}$ to $+85^{\circ} \mathrm{C}$
.065" (1.6mm) \& 19 oz. (approximate values ).
Insulation resistance:
Dielectric strength:
Electrical life (resistive loads):
Operating temperature range:
Total travel \& operating force:

## MATERIALS

Contacts:

Actuator:
Bushing:
Strap:
Case:
Terminal seal:
Support bracket:
Spring mounting bracket:
Bezel \& cap:
Hardware:
LED:

Coin silver for power,UL \& CSA models. Gold over nickel over brass for dry circuit models.
Glass filled polyester, color white
Nickel plated brass
Stainless steel
Melamine phenolic, color red
Epoxy (optional)
Brass or steel, tin plated
Stainless steel
Nylon. Available in black, red or white. Consult factory for other colors. See 'Miscellaneous' section.
Intensity: 2.0 mcd at 10 mA . Forward voltage: 2.0 V (3.0V max.). Max. continuous 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

## PB SERIES - MINIATURE MOMENTARY PUSHBUTTON SWITCHES

Solder lug terminals - panel mounting

P.C. or wirewrap terminals - panel or p.c. mounting


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


| POWER CKT. | DRY CKT. <br> MODEL NO. |
| :--- | :--- |
| PB1-3P2Y2A-1Q | MODEL NO. |



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


| POWER CKT. | DRY CKT. |
| :--- | :--- |
| MODEL NO. | MODEL NO. |
| PB1-3P2Y2V-1Q | PB1-3P2Y2V-1B |





## PB SERIES - MINIATURE MOMENTARY PUSHBUTTON SWITCHES

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


| POWER CKT. <br> MODEL NO | DRY CKT. <br> MODEL NO. |
| :--- | :--- |
| PB1-3P2Y2V30Q | PB1-3P2Y2V30B |



Solder lug terminals - snap-in bezel with LED


| POWER CKT. <br> MODEL NO. | DRY CKT. <br> MODEL NO. |
| :--- | :--- |
| PB1-3P2Y1ZQJ6168 | PB1-3P2Y1ZBJ6168 |



Solder lug terminals - snap-in bezel


| POWER CKT. <br> MODEL NO. | DRY CKT. <br> MODEL NO. |
| :--- | :--- |
| PB1-3P2Y1ZQJ8182 | PB1-3P2Y1ZBJ8182 |



## PB SERIES - MINIATURE MOMENTARY PUSHBUTTON SWITCHES

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


| POWER CKT. <br> MODEL NO. | DRY CKT. <br> MODEL NO. |
| :--- | :--- |
| PB1-3P2Y1CQJ8488 | PB1-3P2Y1CBJ8488 |




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


| POWER CKT. <br> MODEL NO. | DRY CKT. <br> MODEL NO. |
| :--- | :--- |
| PB1-3P2Y1V30QJ8488 | PB1-3P2Y1V30BJ8488 |



## PB SERIES - MINIATURE MOMENTARY PUSHBUTTON SWITCHES

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


| POWER CKT. <br> MODEL NO. | DRY CKT. <br> MODEL NO. |
| :--- | :--- |
| PB1-3P2Y1A-1QJ8488 | PB1-3P2Y1A-1BJ8488 |


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



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


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




## PB SERIES - MINIATURE MOMENTARY PUSHBUTTON SWITCHES

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

Self-keying against rotation


| POWER CKT. <br> MODEL NO. | DRY CKT. <br> MODEL NO. |
| :--- | :--- |
| PB1-3P2Y1ZQJ9688 | PB1-3P2Y1ZBJ9688 |




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:


## PB SERIES - MINIATURE MOMENTARY PUSHBUTTON SWITCHES



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## PB SERIES - MINIATURE MOMENTARY PUSHBUTTON SWITCHES

## CONTACT MATERIAL OPTIONS

$B$ 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.
Q Power circuit - coin silver
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.
G Dry circuit or power circuit - gold over nickel over coin silver.
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.

N Dry circuit - gold over nickel over brass. Note- less gold than B option
RATING: 0.4 Volt-Amps (VA) max. at 20 V max.
ELECTRIC LIFE: 10,000 cycles min. at 13 cycles per minute.
$T$ Power circuit - Silver plate over brass.
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
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).
CSA
For power circuits - coin silver
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 |  |
| :---: | :---: | :---: | :---: |
| $E$ | Space between terminals and case hole is completely epoxy sealed to prevent flux and contaminant entry. | /R | To reverse the $\mathbf{N O}$ and $\mathbf{N C}$ terminals, add /R to the switch model number. |
| PANEL CUT-OUTS |  |  |  |

## Cut-outs that accept all 1/4-40 threaded bushings:

Without keying \begin{tabular}{l}

With A107 anti-rotate | With A158 anti-rotate |
| :--- |
| ring | With D bushing

\end{tabular}

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

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