

# PN Series Alternate & Momentary Action Pushbutton Switches



A

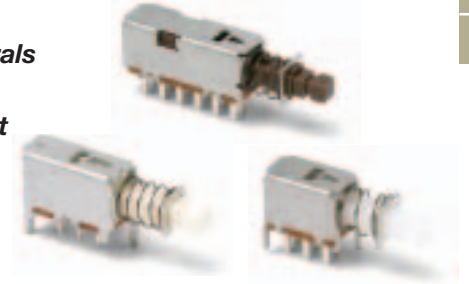
Pushbutton

## Features/Benefits

- **Momentary or locking action**
- **3 actuation forces for customized feel**
- **Low cost, reliable contact design**
- **1-4 poles available**
- **RoHS compliant**

## Typical Applications

- **Computers and peripherals**
- **Instrumentation and measurement equipment**
- **Non-power, on-off switch applications**



## Specifications

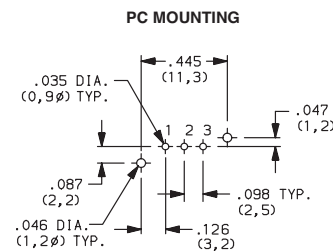
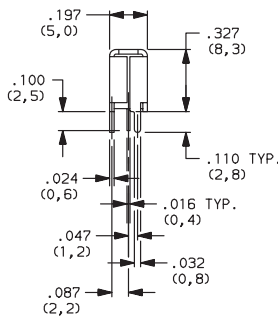
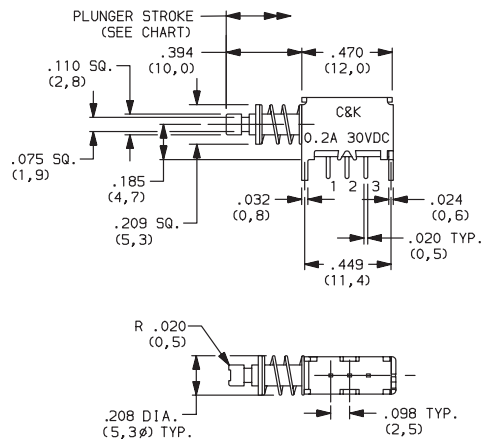
CONTACT RATING: 0.2 AMP @ 30 V DC max.  
ELECTRICAL LIFE: 10,000 make-and-break cycles at full load.  
MECHANICAL LIFE: 10,000 on/off cycles.  
CONTACT RESISTANCE: 50 mΩ max. initial,  
100 milliohms max. at end of life.  
INSULATION RESISTANCE: 100 MΩ min. at 500 V DC.  
DIELECTRIC STRENGTH: 500 V AC min.  
OPERATING/STORAGE TEMPERATURES: -10°C to 60°C.  
PACKAGING: Switches are supplied in anti-static bags  
or anti-static trays.

## Materials

FRAME: Tin plated steel.  
ACTUATOR: Polyacetal. Color: Manufacturing option.  
BASE: Laminated phenolic.  
TERMINALS: Silver plated brass.  
MOVABLE CONTACTS: Silver plated (or clad) phosphor bronze.  
RETURN SPRING: Music wire.  
DETENT SPRING: Phosphor bronze.  
DETENT SPRING PLATE: Phosphor bronze.  
RETURN SPRING RETAINER RING: Nickel (or tin) plated steel.  
TERMINAL SEAL: Epoxy.

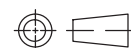
## How To Order

Complete part numbers for PN Series Alternate & Momentary Action Pushbutton Switches are shown on pages A-82 thru A-83.



PN11SBSA03QE  
SPDT

| PART NUMBER  | SWITCH FUNCTION | OPERATING FORCE (typ.) | STROKE      |             | SHORTING/<br>NON-SHORTING | SCHEMATIC                                                                             |
|--------------|-----------------|------------------------|-------------|-------------|---------------------------|---------------------------------------------------------------------------------------|
|              |                 |                        | LOCK STROKE | FULL STROKE |                           |                                                                                       |
| PN11SBNA03QE | SPDT Momentary  | 120g max.              | —           | .140 (3,5)  | Non-Shorting              |  |
| PN11SCNA03QE | SPDT Momentary  | 150g                   | —           |             |                           |                                                                                       |
| PN11SHNA03QE | SPDT Momentary  | 230g                   | —           |             |                           |                                                                                       |
| PN11SJNA03QE | SPDT Momentary  | 330g                   | —           |             |                           |                                                                                       |
| PN12SHNA03QE | SPDT Locking    | 230g                   | .100g (2,5) |             |                           |                                                                                       |
| PN12SJNA03QE | SPDT Locking    | 330g                   | .100g (2,5) | .140 (3,5)  | Shorting                  |                                                                                       |
| PN11SBSA03QE | SPDT Momentary  | 120g max.              | —           |             |                           |                                                                                       |
| PN11SCSA03QE | SPDT Momentary  | 150g                   | —           |             |                           |                                                                                       |
| PN11SHSA03QE | SPDT Momentary  | 230g                   | —           |             |                           |                                                                                       |
| PN11SJSA03QE | SPDT Momentary  | 330g                   | —           |             |                           |                                                                                       |
| PN12SHSA03QE | SPDT Locking    | 230g                   | .100g (2,5) |             |                           |                                                                                       |
| PN12SJSA03QE | SPDT Locking    | 330g                   | .100 (2,5)  |             |                           |                                                                                       |



Third Angle  
Projection

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

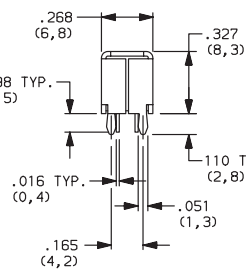
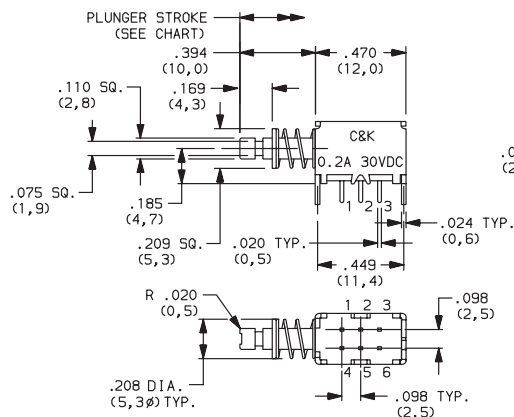
**A****Pushbutton**

# PN Series

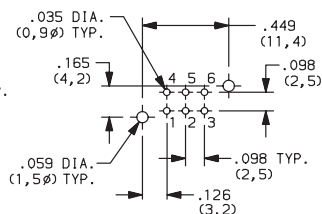
## Alternate & Momentary Action Pushbutton Switches



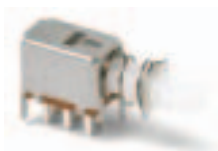
**PN21SBSA03QE**  
**DPDT**



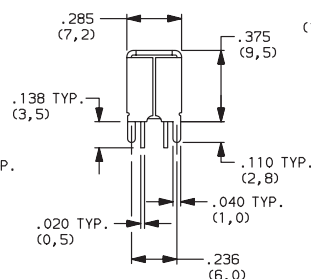
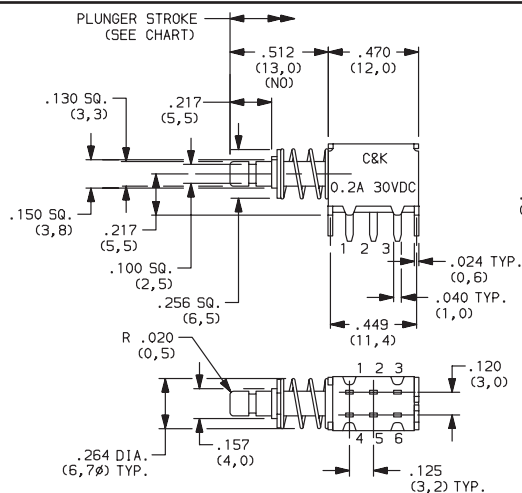
**PC MOUNTING**



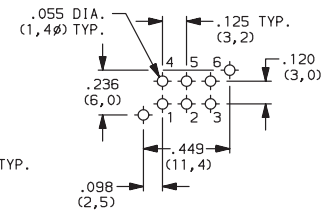
| PART NUMBER  | SWITCH FUNCTION | OPERATING FORCE (typ.) | STROKE      |             | SHORTING/<br>NON-SHORTING | SCHEMATIC                                                                           |  |
|--------------|-----------------|------------------------|-------------|-------------|---------------------------|-------------------------------------------------------------------------------------|--|
|              |                 |                        | LOCK STROKE | FULL STROKE |                           |                                                                                     |  |
| PN21SBNA03QE | DPDT Momentary  | 120g max.              | —           | .140 (3,5)  | Non-Shorting              |  |  |
| PN21SDNA03QE | DPDT Momentary  | 175g                   | —           |             |                           |                                                                                     |  |
| PN21SJNA03QE | DPDT Momentary  | 330g                   | —           |             |                           |                                                                                     |  |
| PN22SJNA03QE | DPDT Locking    | 330g                   | .100 (2,5)  |             |                           |                                                                                     |  |
| PN21SBSA03QE | DPDT Momentary  | 120g max.              | —           | .140 (3,5)  | Shorting                  |                                                                                     |  |
| PN21SDSA03QE | DPDT Momentary  | 175g                   | —           |             |                           |                                                                                     |  |
| PN21SJSA03QE | DPDT Momentary  | 330g                   | —           |             |                           |                                                                                     |  |
| PN22SJSA03QE | DPDT Locking    | 330g                   | .100 (2,5)  |             |                           |                                                                                     |  |



**PN21LASA03QE**  
**DPDT**



**PC MOUNTING**



| PART NUMBER  | SWITCH FUNCTION | OPERATING FORCE (typ.) | STROKE      |             | SHORTING/<br>NON-SHORTING | SCHEMATIC                                                                             |  |
|--------------|-----------------|------------------------|-------------|-------------|---------------------------|---------------------------------------------------------------------------------------|--|
|              |                 |                        | LOCK STROKE | FULL STROKE |                           |                                                                                       |  |
| PN21LANA03QE | DPDT Momentary  | 100g max.              | —           | .140 (3,5)  | Non-Shorting              |  |  |
| PN21LFNA03QE | DPDT Momentary  | 120g                   | —           |             |                           |                                                                                       |  |
| PN21LDNA03QE | DPDT Momentary  | 175g                   | —           |             |                           |                                                                                       |  |
| PN21LENA03QE | DPDT Momentary  | 300g                   | —           |             |                           |                                                                                       |  |
| PN22LENA03QE | DPDT Locking    | 300g                   | .100 (2,5)  |             |                           |                                                                                       |  |
| PN21LASA03QE | DPDT Momentary  | 100g max.              | —           | .140 (3,5)  | Shorting                  |                                                                                       |  |
| PN21LFSA03QE | DPDT Momentary  | 120g                   | —           |             |                           |                                                                                       |  |
| PN21LDSA03QE | DPDT Momentary  | 175g                   | —           |             |                           |                                                                                       |  |
| PN21LESA03QE | DPDT Momentary  | 300g                   | —           |             |                           |                                                                                       |  |
| PN22LESA03QE | DPDT Locking    | 300g                   | .100 (2,5)  |             |                           |                                                                                       |  |



Third Angle  
Projection

**C&K**

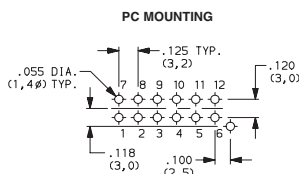
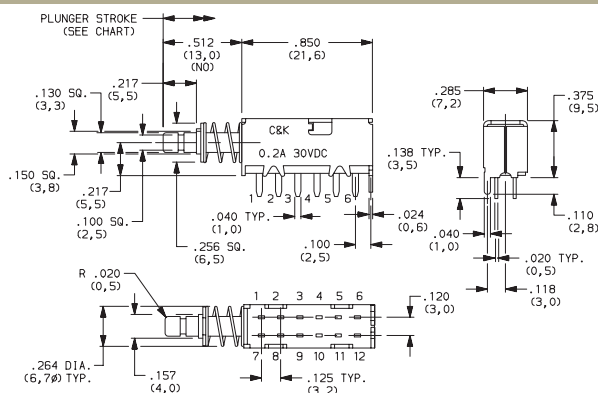
Dimensions are shown: Inches (mm)  
Specifications and dimensions subject to change

# PN Series Alternate & Momentary Action Pushbutton Switches



A

Pushbutton

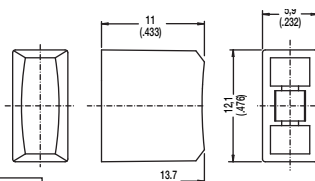


PN41LGSA02QE  
4PDT

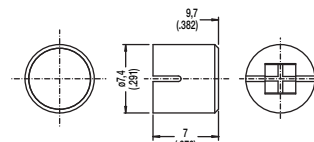
| PART NUMBER  | SWITCH FUNCTION | OPERATING FORCE (typ.) | STROKE      |             | SHORTING/<br>NON-SHORTING | SCHEMATIC |
|--------------|-----------------|------------------------|-------------|-------------|---------------------------|-----------|
|              |                 |                        | LOCK STROKE | FULL STROKE |                           |           |
| PN41LGNA02QE | 4PDT Momentary  | 175g                   | —           | .140 (3,5)  | Non-Shorting              |           |
| PN41LENA02QE | 4PDT Momentary  | 300g                   |             |             |                           |           |
| PN42LENA02QE | 4PDT Locking    | 300g                   |             |             |                           |           |
| PN41LGSA02QE | 4PDT Momentary  | 175g                   | —           | .140 (3,5)  | Shorting                  |           |
| PN41LESA02QE | 4PDT Momentary  | 300g                   |             |             |                           |           |
| PN42LESA02QE | 4PDT Locking    | 300g                   |             |             |                           |           |

BUTTONS MUST BE ORDERED SEPARATELY. SHIPPED IN BULK.

PE



PV

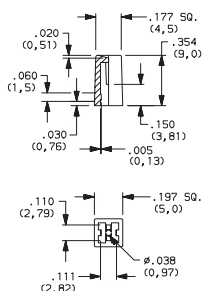


| OPTION CODE | COLOR |
|-------------|-------|
| RD          | Red   |
| GY          | Gray  |
| BK          | Black |
| WH          | White |

PE and PV buttons fit .130" square plungers

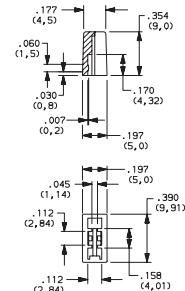
## Indexed

- G001A Black
- G001G Gray
- G001I Ivory
- G001R Red



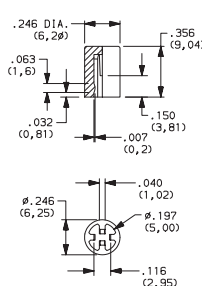
## Rectangular

- G002A Black
- G002G Gray
- G002I Ivory
- G002R Red



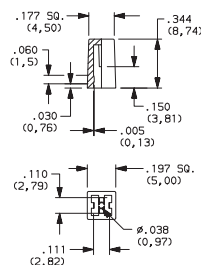
## Round

- G003A Black
- G003G Gray
- G003I Ivory
- G003R Red



## Square

- G004A Black
- G004G Gray
- G004I Ivory
- G004R Red



G001, G002, G003 and G004 buttons fit .110" square plungers.



Third Angle  
Projection



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



Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



#### Как с нами связаться

**Телефон:** 8 (812) 309 58 32 (многоканальный)

**Факс:** 8 (812) 320-02-42

**Электронная почта:** [org@eplast1.ru](mailto:org@eplast1.ru)

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