

# PN Series Alternate & Momentary Action Pushbutton Switches



A

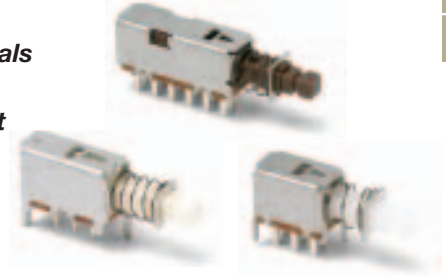
Pushbutton

## 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

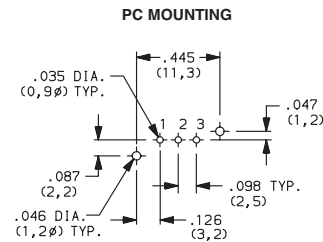
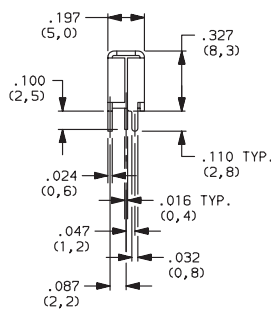
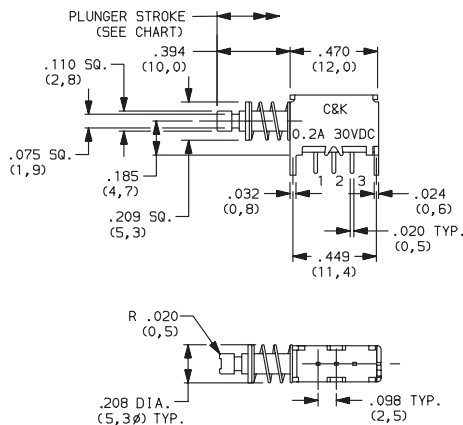
CONTACT RATING: 0.2 AMP @ 30 V DC max.  
 ELECTRICAL LIFE: 10,000 make-and-break cycles at full load.  
 MECHANICAL LIFE: 10,000 on/off cycles.  
 CONTACT RESISTANCE: 50 mΩ max. initial,  
 100 milliohms max. at end of life.  
 INSULATION RESISTANCE: 100 MΩ min. at 500 V DC.  
 DIELECTRIC STRENGTH: 500 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.

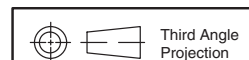
## How To Order

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/ 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)	.140 (3,5)	Shorting	
PN12SJNA03QE	SPDT Locking	330g	.100g (2,5)			
PN11SBSA03QE	SPDT Momentary	120g max.	—			
PN11SCSA03QE	SPDT Momentary	150g	—			
PN11SHSA03QE	SPDT Momentary	230g	—	.140 (3,5)	Shorting	
PN11SJSA03QE	SPDT Momentary	330g	—			
PN12SHSA03QE	SPDT Locking	230g	.100g (2,5)			
PN12SJSA03QE	SPDT Locking	330g	.100 (2,5)			



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



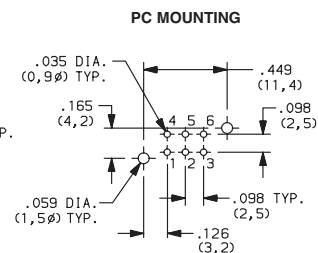
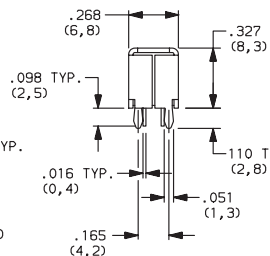
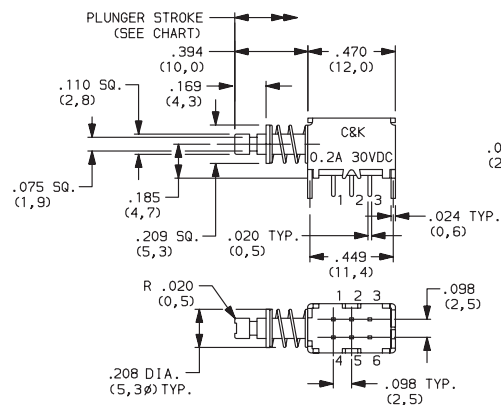
A

Pushbutton

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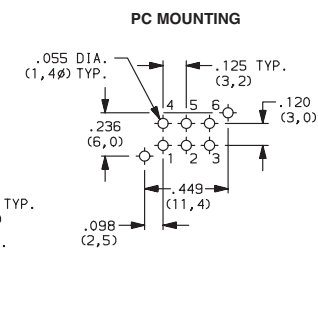
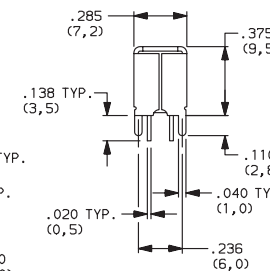
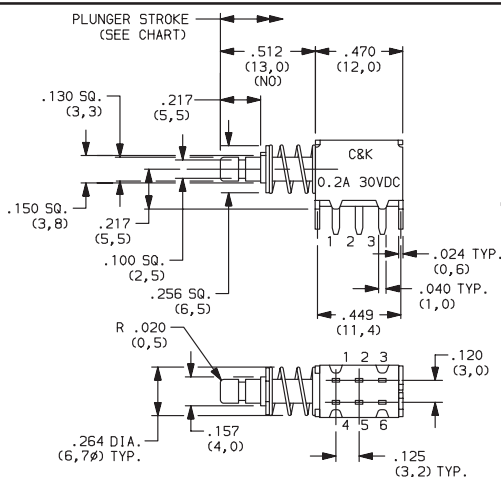
PN21SBSA03QE  
DPDT



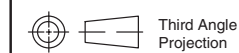
PART NUMBER	SWITCH FUNCTION	OPERATING FORCE (typ.)	STROKE		SHORTING/ NON-SHORTING	SCHEMATIC
			LOCK STROKE	FULL STROKE		
PN21SBSA03QE	DPDT Momentary	120g max.	—	.140 (3,5)	Non-Shorting	
PN21SDNA03QE	DPDT Momentary	175g	—			
PN21SJNA03QE	DPDT Momentary	330g	—			
PN22SJNA03QE	DPDT Locking	330g	.100 (2,5)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



PART NUMBER	SWITCH FUNCTION	OPERATING FORCE (typ.)	STROKE		SHORTING/ 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	
PN21LFS A03QE	DPDT Momentary	120g	—			
PN21LDSA03QE	DPDT Momentary	175g	—			
PN21LESA03QE	DPDT Momentary	300g	—			
PN22LESA03QE	DPDT Locking	300g	.100 (2,5)			



Third Angle  
Projection



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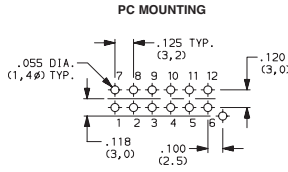
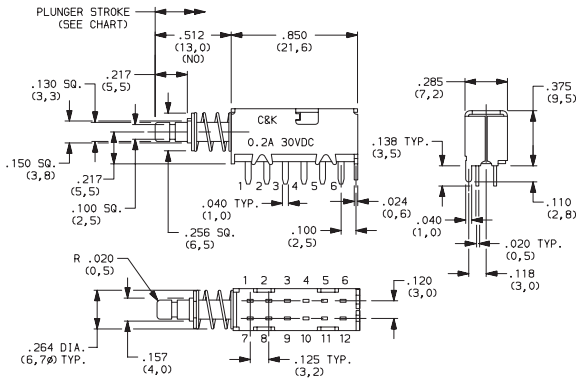
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A

Pushbutton

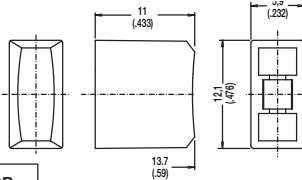


PN41LGSA02QE  
4PDT

PART NUMBER	SWITCH FUNCTION	OPERATING FORCE (typ.)	STROKE		SHORTING/ NON-SHORTING	SCHEMATIC
			LOCK STROKE	FULL STROKE		
PN41LGNA02QE	4PDT Momentary	175g	-	.140 (3,5)	Non-Shorting	
PN41LENA02QE	4PDT Momentary	300g				
PN42LENA02QE	4PDT Locking	300g	.100 (2,5)			
PN41LGSA02QE	4PDT Momentary	175g	-	.140 (3,5)	Shorting	
PN41LESA02QE	4PDT Momentary	300g				
PN42LESA02QE	4PDT Locking	300g	.100 (2,5)			

BUTTONS MUST BE ORDERED SEPARATELY. SHIPPED IN BULK.

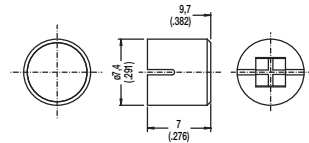
## PE



OPTION CODE	COLOR
RD	Red
GY	Gray
BK	Black
WH	White

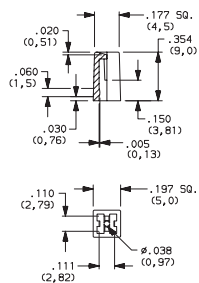
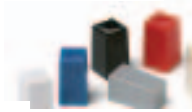
PE and PV buttons fit .130" square plungers

## PV



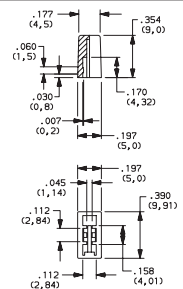
## Indexed

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



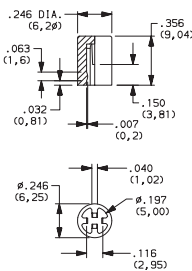
## Rectangular

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



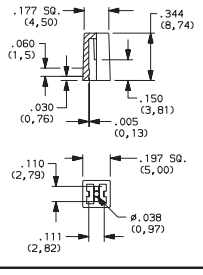
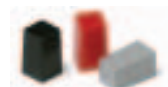
## Round

- 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.



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