



P1 SERIES

SPECIFICATIONS

Insulation Resistance (at 500VDC/minute)

Min. 100MΩ

Operating Temperature Range

0°C to 55°C

Vibration

10 ~ 55 Hz, displacement 0.75 mm (p-p)

Electrical Service Life

Min. 10,000 operations

Electrical Operating Frequency

10 operations per minute

Mechanical Service Life

Min. 100,000 operations

Mechanical Operating Frequency

30 operations per minute

Travel

Pre travel Max.1.5mm,

Total travel 2.5±0.5mm

RATING

0.1A 30VDC

APPLICATIONS

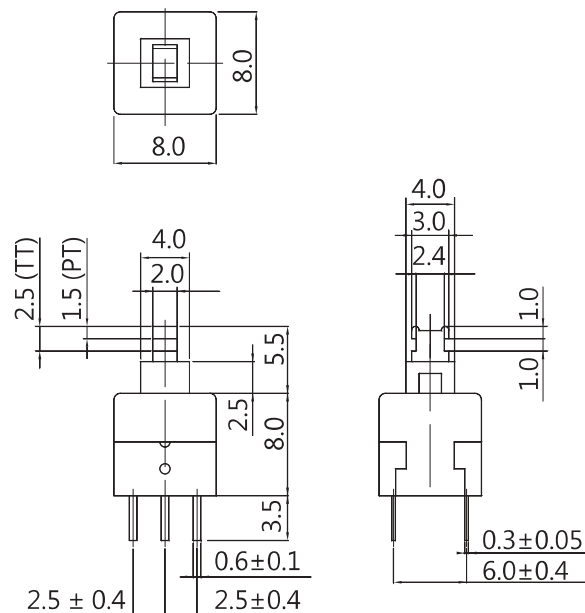
Telephone, Computer, Tester, Automotive, Apparatus

ORDERING INFORMATION

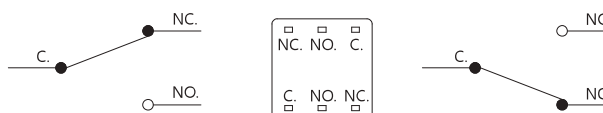
P	1	—	1	S	—	Z	NO-TOP BUTTON					
P	1	—	1	S	—	1	L	—	Z			
SERIES PREFIX			CODE	TYPE	CODE	OPERATING FORCE	CODE	TOP BUTTON TYPE	CODE	TOP BUTTON COLOR	ROHS CODE	
			0	NON LOCK	L	LIGHT	1	7 x 7 x 8 mm	R	RED	W	WHITE
			1	LOCK	S	STANDARD	3	Ø 7x 8 mm	L	BLUE	E	GREEN
			2	NON LOCK CLICK					B	BLACK	Y	YELLOW

DIMENSIONS

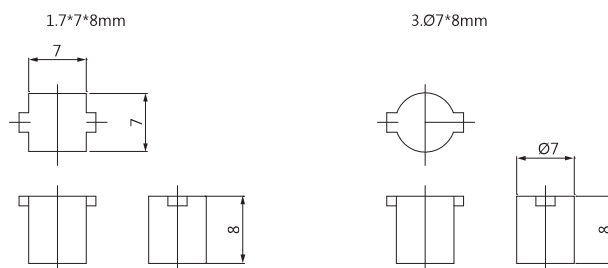
Unless otherwise specified, a tolerance of ±0.4mm applies to all dimensions.



CONTACT CONFIGURATION



TOP BUTTON DIMENSIONS



OPERATING FORCE

FORCE/TYPE	NON LOCK	LOCK
L	90 ± 30 gf	130 ± 50 gf
S	150 ± 50 gf	180 ± 50 gf



P2 SERIES

SPECIFICATIONS

Insulation Resistance (at 500VDC/minute)

Min. 100MΩ

Operating Temperature Range

0°C to 55°C

Vibration

10 ~ 55 Hz, displacement 0.75 mm (p-p)

Electrical Service Life

Min. 10,000 operations.

Electrical Operating Frequency

10 operations per minute

LED Rating

Max. 20mA

Mechanical Service Life

Min. 100,000 operations.

Mechanical Operating Frequency

30 operations per minute

Travel

Pre travel Max. 1.5mm

Total travel 2.5±0.5mm

RATING

0.1A 30VDC

APPLICATIONS

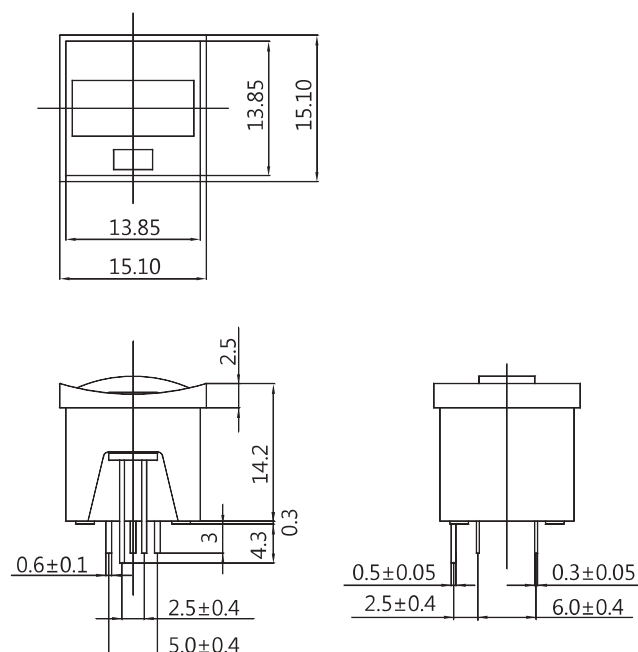
Computer, Alarm, Coin-op phone, Auto garage door

ORDERING INFORMATION

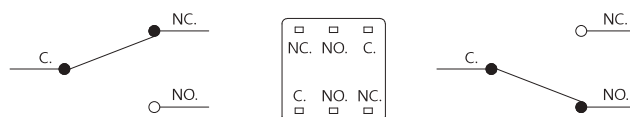
P	2	—	0	—	S	—	L	—	G	—	R	—	Z
SERIES PREFIX	CODE TYPE		CODE OPERATING FORCE		CODE TOP BUTTON COLOR		CODE CASE COLOR		CODE LED COLOR		ROHS CODE		
	0 NON LOCK		S NON LOCK 150±50g		R RED		G GRAY		R RED				
	1 LOCK		LOCK 180±50g		L BLUE		B BLACK		E GREEN				
	2 NON LOCK CLICK				E GREEN				Y YELLOW				
					Y YELLOW				WITHOUT LED				
					N BROWN								
					O ORANGE								
					B BLACK								
					G GRAY								

DIMENSIONS

Unless otherwise specified, a tolerance of ±0.4mm applies to all dimensions.



CONTACT CONFIGURATION



PUSH SWITCHES



P3 SERIES

SPECIFICATIONS

Contact Resistance (initial)

Max. 300mΩ

Measured by ohm meter –open voltage <1VDC, driver current -100mA

Insulation Resistance (at 500VDC/minute)

Min. 100MΩ

Dielectric Strength

Min. 1,500VAC(50-60HZ)/minute between Live parts.

Min. 3,000VAC(50-60HZ)/minute between Live parts and dead metal parts

Operating Temperature Range

-40°C to 125°C (with no icing)

Vibration

10~55Hz, displacement 0.75 mm (p-p)

Electrical Service Life

8(8)A - Min. 50,000 operations

Other ratings - Min. 10,000 operations

Electrical Operating Frequency

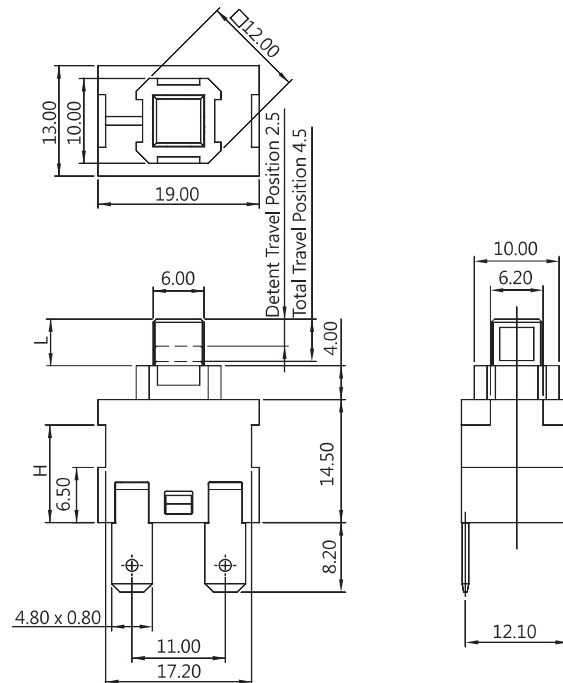
10~30 operations per minute

APPLICATIONS

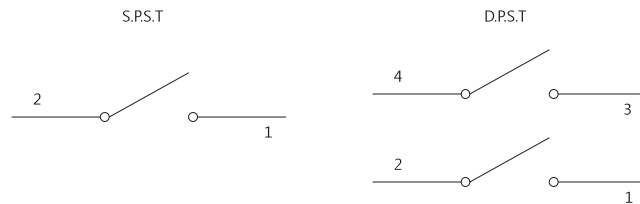
Vacuum Cleaner, Refrigerator, Espresso Machine

DIMENSIONS

Unless otherwise specified, a tolerance of ±0.4mm applies to all dimensions.



CONTACT CONFIGURATION



CERTIFICATE INFORMATION

Model Name	UL,cUL	ENEC
P3-10	10A 125/250 VAC T125 1E4 1/2HP 125/250 VAC T55 1E4	10(4)A 125/250 VAC T125 1E4
P3-16	16A 125/250 VAC T125 1E4 3/4HP 125/250 VAC T85 1E4	16.1(4)A 125/250VAC T125 1E4 8(8)A 125/250VAC T125 5E4

ORDERING INFORMATION

P3	16	S	1	A	1	D	Z
SERIES PREFIX	RATING CURRENT	OPERATING FORCE	CIRCUIT ARRANGEMENT	BUTTON TYPE	COVER TYPE	TERMINAL TYPE	ROHS CODE
10	10A 1/2HP 125/250VAC 10(4)A 125/250VAC	S1	S.P.S.T. OF: Max. 1100gf	A L=5.5mm+LOCK	1 H=11.50mm	D #187 TERMINAL	
16	16A 3/4HP 125/250VAC 16.1(4)A 125/250VAC 8(8)A 125/250VAC	S2	D.P.S.T. OF: Max. 1600gf	B L=5.5mm+NON LOCK	2 H=12.25mm	H #187 TERMINAL	
		L1	S.P.S.T. OF: Max. 600gf	C L=8.0mm+LOCK			
		L2	D.P.S.T. OF: Max. 1100gf	D L=8.0mm+NON LOCK			



P8 SERIES

SPECIFICATIONS

Contact Resistance (initial)

Max. 50mΩ

Measured by ohm meter –open voltage <1VDC, driver current -100mA

Insulation Resistance (at 500VDC/minute)

Min. 100MΩ

Dielectric Strength

Min. 1,000VAC(50-60HZ)/minute between Live parts.

Min. 3,000VAC(50-60HZ)/minute between Live parts and dead metal parts

Operating Temperature Range

-40°C to 85°C (with no icing)

Vibration

10~55HZ, displacement 0.75 mm (p-p)

Electrical Service Life

Min. 10,000 operations

Electrical Operating Frequency

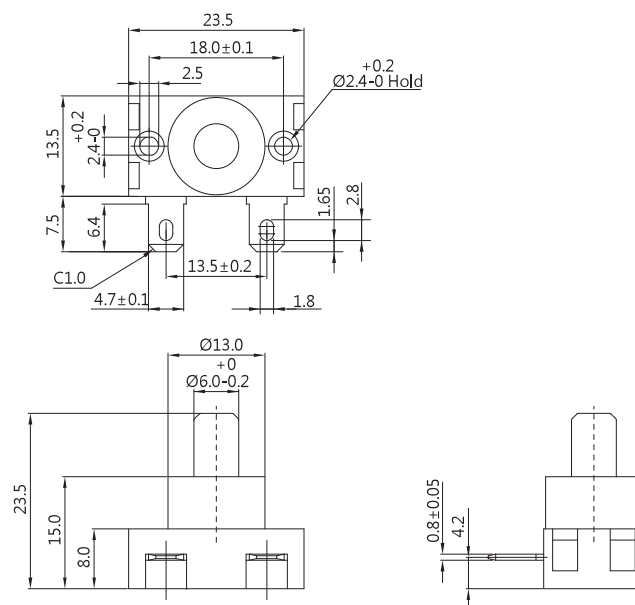
10~30 operations per minute

APPLICATIONS

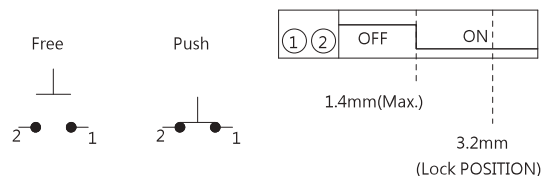
Juice Maker, Blender, Food processor

DIMENSIONS

Unless otherwise specified, a tolerance of $\pm 0.4\text{mm}$ applies to all dimensions.



CONTACT CONFIGURATION

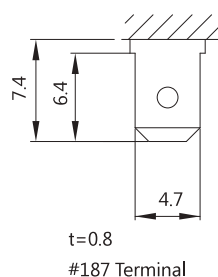


CERTIFICATE INFORMATION

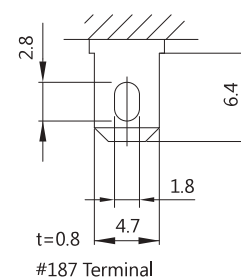
Model Name	UL, cUL	ENEC
P8-10S	6A 250VAC 10A 125VAC (Temp85°C) Min. 6,000 operations	7(4)A 250VAC, μ T85/551E4

TERMINAL TYPES

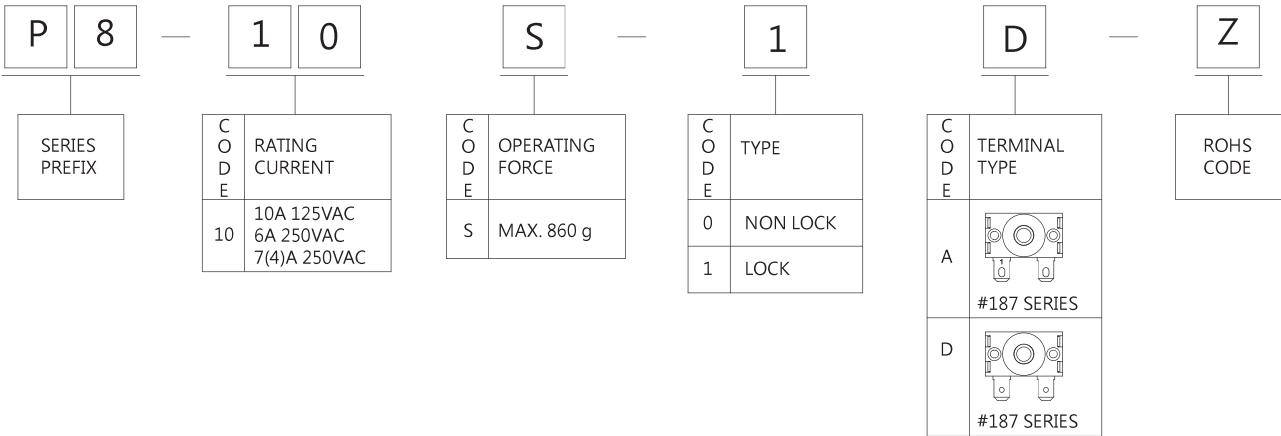
D TYPE



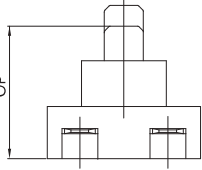
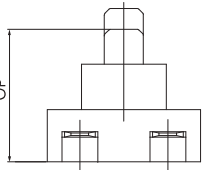
A TYPE



ORDERING INFORMATION



OPERATING CHARACTERISTICS

SWITCH TYPE	PART SUFFIX	OF Max (gf)	FULL TRAVEL (mm)	LOCK TRAVEL (mm)
P8-10S-0 □ -Z		860gf	4.0±0.5mm	---
P8-10S-1 □ -Z		860gf	4.0±0.5mm	2.0±0.5mm



PP3 SERIES

SPECIFICATIONS

Operating Force

Max. 700gf

Return Force

Min. 100gf

Contact Resistance(initial)

Max. 100 mΩ

Measured by ohm meter - open voltage < 1 VDC, driver current-100 mA

Insulation Resistance (at 500 VDC / minute)

Min. 100 MΩ

Dielectric Strength

Min. 500VAC(50-60HZ)/minute between Live parts.

Min. 3,000VAC(50-60HZ)/minute between Live parts and dead metal parts

Operating Temperature Range

-40°C to 100°C (with no icing)

Vibration

10~55 Hz, displacement 0.75 mm(p-p)

Electrical Service Life

Min. 10,000 operations

Electrical Operating Frequency

10~30 operations per minute

APPLICATIONS

Computer and Peripheral, Video Cassette Recorder, Fan, Tester, Karaoke

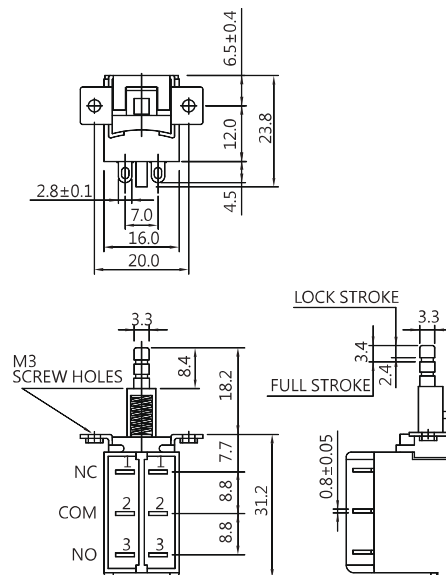
ORDERING INFORMATION

P	P	3	—	1	2	S	—	A	0	2	1	—	—	Z										
SERIES PREFIX			C O D E	RATING CURRENT		C O D E	OPERATING FORCE		C O D E	BUTTON TYPE		C O D E	TYPE		C O D E	NUMBER OF POLES & TERMINAL TYPE		C O D E	CIRCUIT ARRANGEMENT		C O D E	No Number (M3x0.5 Screw Holes)		ROHS CODE
			12	12A 250VAC 15A 250VAC		S	OF: max.700gf RF: min.100gf		A	L=18.2mm		0	NON LOCK Phenolic material		1	1 POLE(L)		1	SINGLE THROW		1	Ø3.5mm Holes		
												1	LOCK Phenolic material		2	2 POLE		2	DOUBLE THROW		2	Ø3.2mm Holes		
												2	NON LOCK Phenolic material		3	1 POLE(R)								
												3	LOCK Phenolic material											

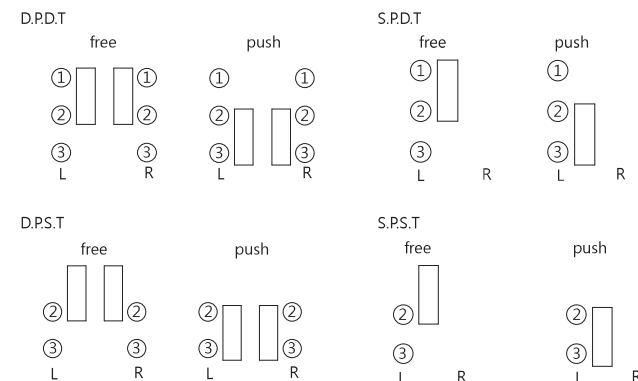
Type Code:
0&1: Room Temp Below 55°C
2~5: UL Temp 100°C
2~5: ENEC14 Temp 85°C

DIMENSIONS

Unless otherwise specified, a tolerance of ±0.4mm applies to all dimensions.



CONTACT CONFIGURATION



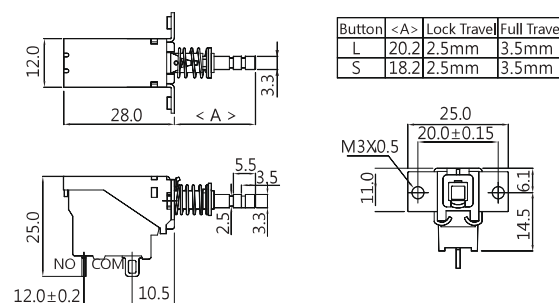
CERTIFICATE INFORMATION

Model Name	UL, cUL	ENEC
PP3-12S	12A 125/250VAC (Temp:55 or 100°C) Min. 6,000 operations	15A 250VAC, μT85 or μT55, 1E4



DIMENSIONS

Unless otherwise specified, a tolerance of $\pm 0.4\text{mm}$ applies to all dimensions.



PP6 SERIES

SPECIFICATIONS

Contact Resistance(initial)

Max. 100 m Ω

Measured by ohm meter - open voltage < 1 VDC, driver current-100 mA

Insulation Resistance (at 500 VDC / minute)

Min. 100 M Ω

Dielectric Strength

Min. 1,000VAC(50-60HZ)/minute between Live parts.

Min. 3,000VAC(50-60HZ)/minute between Live parts and dead metal parts

Operating Temperature Range

-40°C to 85°C (with no icing)

Vibration

10~55 Hz, displacement 0.75 mm(p-p)

Electrical Service Life

Min. 10,000 operations

Electrical Operating Frequency

10~30 operations per minute

CONTACT CONFIGURATION

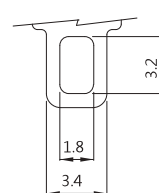
S.P.S.T

Free

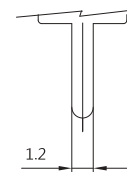
Push



TERMINAL TYPES



SOLDER TERMINAL
T=1.0mm



PC.B TERMINAL
T=1.0mm

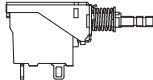
APPLICATIONS

Automobile, Audio, DVD player, Computer and Peripheral,
Instrumentation and Measurement Equipment

CERTIFICATE INFORMATION

Model Name	UL, cUL	ENEC
PP6-10S	10A 250VAC(Temp:85°C) Min. 6,000 operations	8/128A 250VAC, μ T85 1E4

ORDERING INFORMATION

P	P	6	—	1	0	S	—	1	S	L	A	—	Z				
SERIES PREFIX			C O D E RATING CURRENT			C O D E OPERATING FORCE		C O D E TYPE		C O D E BUTTON LENGTH COLOR		C O D E TERMINAL TYPE		ROHS CODE			
10			10A 250VAC 8A/128A 250VAC			S 520gf Max.		0 NON LOCK 1 LOCK		L O 20.2mm/BLACK S L 18.2mm/WHITE		A 		P 