

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China

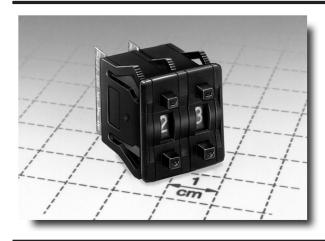






3P Series Miniature Pushwheel Switches





Features/Benefits

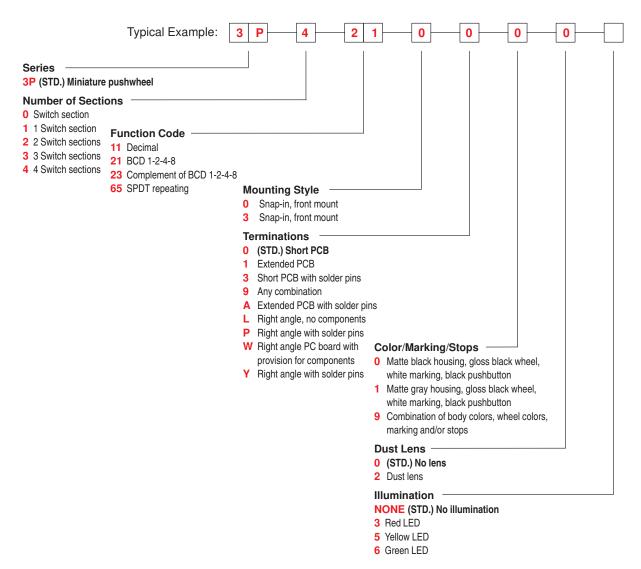
- Snap-in front mount design for easy assembly
- 10 position models available
- Illuminated backlighting available

Typical Applications

- Test & measurement equipment
- Industrial machinery
- Computer peripherals

Build-A-Switch

Our easy Build-A-Switch concept allows you to mix and match options to create the switch you need. Below is a complete listing of options shown in catalog. To order, simply select desired option from each category and place in the appropriate box. Available options are shown and described on pages J-19 thru J-21. For additional options not shown in catalog, consult Customer Service Center.







3P Series Miniature Pushwheel Switches

Specifications

CONTACT RATING:

CARRY: 1 AMP continuous.

SWITCH: 0.4 VA max., 100 mA max., 28 V DC max.

OPERATING VOLTAGE: 50 mV to 28 V DC. ELECTRICAL LIFE: 100.000 actuations.

CONTACT RESISTANCE: Below 300 milliohms typ. @

2-4 V DC, 100 mA.

INSULATION RESISTANCE: 10⁹ ohms min. (dry).
DIELECTRIC STRENGTH: 500 V RMS min. @ sea level between common terminal and any output.

OPERATING TEMPERATURE: -10°C to 65°C.

Materials

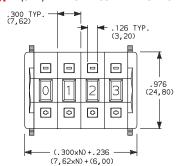
HOUSING: Polycarbonate (UL 94V-0). PUSHWHEEL: Polycarbonate (UL 94V-0). PUSHBUTTON: Polycarbonate (UL 94V-0).

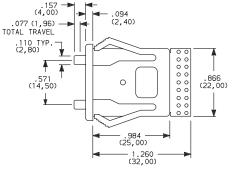
ROTOR CONTACTS: Gold over nickel over copper alloy. STATOR CONTACTS: Hard gold over nickel over copper on epoxy fiberglass.

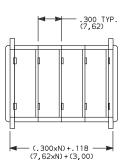
NOTE: Specifications and materials listed above are general specifications for switches with standard options. For information on specific and custom switches, consult Customer Service Center.

SERIES ------

3P (STD.) MINIATURE PUSHWHEEL SWITCH









N = Number of sections.

PART	NO.	NO.		
NUMBER	SECTIONS	POSITIONS		
3P4210000	4	10		

NUMBER OF SECTIONS — Tex-0-0-0-0

- Switch section only, no endplates.
- 1-4 Number of switch sections in assembly, includes endplates.

NOTE: Endplates and blank sections available separately, see section L.

FUNCTION CODE -- --

11 DECIMAL, SP, 10 POSITION

H SIGNALS CONNECTED TO							СО	COMMON SIGNAL C			
H E L	0	1	2	3	4	5	6	7	8	9	С
0	•										•
1											•
2			•								•
3				•							•
4					•						•
5						•					•
6							•				•
7								•			•
8									•		•
9										•	•
	2	3	4	5	6	7	8	9	10	11	12
	TERM. LOCATION										

Available Terminations: L, P, W, Y See fig. 3, page J-21.

21 BCD 1-2-4-8, 10 POSITION

Ä	SIGNALS CONN. TO COMM. SIG. C						
E E L	1	2	4	8	С		
0					•		
1	•						
2		•			•		
3	•	•					
4			•		•		
5	•						
6		•	•		•		
7	•	•					
8				•	•		
9	•			•	•		
	1	3	5	7	9		
	TERM. LOCATION						

Available Terminations: A, L, P, W, Y, 0, 1, 3 See figs. 2 & 3, page J-21.

23 COMPLEMENT OF BCD 1-2-4-8, 10 POSITION

Ä	SIGNALS CONN. TO COMM. SIG. C					
E	ī	2	4	8	С	
0	•	•	•	•	•	
1		•		•		
2	•		•	•	•	
3				•		
4	•	•		•	•	
5		•		•		
6	•			•	•	
7				•		
8	•	•	•		•	
9		•	•		•	
	1	7	9	3	5	
	TERM. LOCATION					

Available Terminations: A, L, P, W, Y, 0, 1, 3 See figs. 2 & 3, page J-21.

SPDT REPEATING, 10 POSITION ZERO (0) AND FIVE (5) ALTERNATING

H	TO C				
HEEL	0	5	С		
0	•		•		
5		•	•		
0	•		•		
5		•	•		
0	•		•		
5			•		
0	•		•		
5			•		
0	•		•		
5			•		
	3	5	7		
	TER	м. і	LOC		

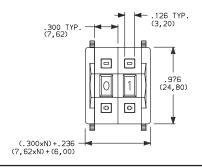
Available Terminations: A, L, P, W, Y, 0, 1, 3 See figs. 2 & 3, page J-21.

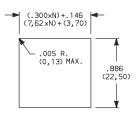
NOTE: For terminal location diagrams, see page J-21.

MOUNTING STYLE

SNAP-IN FRONT MOUNT, SECTION PITCH: .300 (7,62) EACH SECTION



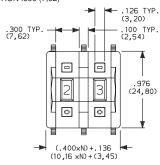


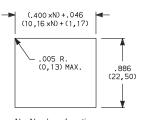


N = Number of sections. Recommended panel thickness: .039 - .156 (0,99 - 3,95)

SNAP-IN FRONT MOUNT WITH SPACER, SECTION PITCH: .400 (70,16) EACH SECTION, LAST SECTION .300 (7,62)





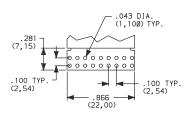


N = Number of sections. Recommended panel thickness: .039 - .156 (0,99 - 3,95)

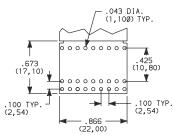
TERMINATIONS

(STD.) SHORT PCB

humbwheel & Pushwheel

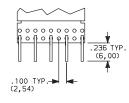


EXTENDED PCB WITH PROVISION FOR COMPONENTS



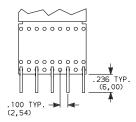
Signal traces cut, except for common(s)

3 SHORT PCB, TYPE 0 WITH SOLDER PINS



For terminal location numbers, see below.

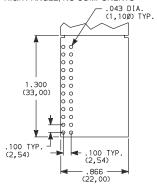
EXTENDED PCB, TYPE 1 WITH SOLDER PINS



For terminal location numbers, see below. Signal traces cut, except for common(s).

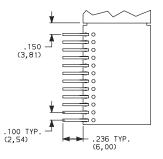
J-20

RIGHT ANGLE, NO COMPONENTS



PC Board 1/32" (0,79) thick.

RIGHT ANGLE, TYPE L WITH SOLDER PINS



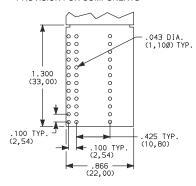
For terminal location numbers, see below. Unsuitable for panel mounting.

NOTE: All terminal holes shown may not be present for all function codes, consult Customer Service Center.

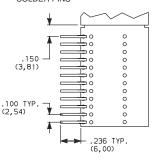


TERMINATIONS ----





Y RIGHT ANGLE, TYPE WITH SOLDER PINS



For terminal location numbers, see below.
Unsuitable for panel mounting.

Signal traces cut, except for common(s).

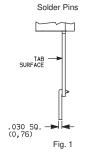
9 ANY COMBINATION OF TERMINATION CONFIGURATIONS OR SPECIAL TERMINATIONS

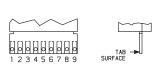
Specify on configuration form, page J-22 and consult Customer Service Center.

PC Board 1/32" (0,79) thick.

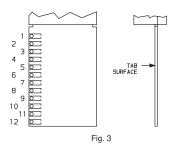
NOTE: All terminal holes shown may not be present for all function codes, consult Customer Service Center.

Terminal Location Numbers









COLOR/MARKING/STOPS ----

- 0 (STD.) MATTE BLACK HOUSING (Gloss black wheel with white characters, black pushbuttons, no stops.)
- MATTE GRAY HOUSING (Gloss black wheel with white characters, black pushbuttons, no stops.)
- 9 SPECIAL COLORS, MARKINGS FOR HOUSING OR WHEEL, STOPS (Specify on CONFIGURATION FORM, page J-22 and consult Customer Service Center).

DUST LENS

- 0 (STD.) NO LENS
- 2 DUST LENS (Protects character face of the wheel from abrasion and dust.)



ILLUMINATION ----

NONE (STD.) NO ILLUMINATION

- 3 RED LED
- 5 YELLOW LED
- 6 GREEN LED

NOTE: Internal LED illuminates wheel character for low-light visibility.



SHEET ____OF ___

Configuration Form GRAY SHADED AREAS TO BE FILLED IN BY C&K.						
C&K CATALOG PART NO			C&K PART N	UMBER	C&K PART NUMBER	
3 P					1BER	
COMPANY NAME				CUSTOMER - PRINT		
ADDRESS		TEL.#				
CUSTOMER CONTACT DATE DETAILS:						
ORIGINATED BY SALES REP						
PUSHWHEEL NO SECTIONS O	F COLOR/MAR	DDE—TERMINA RKING/STOPS/S LUMINATION IN APPROPRIATE BOXES. ECTIONS (SEE CATALOG F	EAL—	DESCRIBE IN APPI	ROPRIATE ROW	
	3 P -	_				
© N 0 2	3 P -	_				
<u> </u>	3 P -	_				
0 4	3 P -	_				
© 5 0 5	3 P -	_				
© o 0 6	3 P -	_				
© 7 0 7	3 P –					
© © 0 8	3 P -	_				
O O O O	3 P -	_				
0 0 10	3 P -	_				
0 🔁 0	3 P -	_				
QUALITY CO	NTROL INSTRUCTION	ONS	PRODUCTI	ON APPROVAL	DATE	
			Q.C. APPR	OVAL	DATE	
			REV.	INITIALS	DATE	
FOR SWITCHES WITH MORE THAN 11 SECTIONS, CONTINUE ON ADDITIONAL SHEETS.						
SPECIAL INSTRUCTIONS O	R SPECIFICATIONS	:				