#### Features/Benefits

- Tiny size saves space
- 10 and 16 position models available
- ESD clip available on select models
- · Snap-in front mount saves assembly time

### **Typical Applications**

- Computer peripherals
- Test equipment
- Instrumentation



#### **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: 1,000,000 actuations. CONTACT RESISTANCE: Below 300 m  $\Omega$  typ. @ 2-4 V DC, 100 mA.

INSULATION RESISTANCE:  $10^9~\Omega$  min. (dry). DIELECTRIC STRENGTH: 500 Vrms min. @ sea level between common terminal and any output. OPERATING TEMPERATURE:  $-10^{\circ}\text{C}$  to  $65^{\circ}\text{C}$ .

#### **Materials**

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

ROTOR CONTACTS: Gold over nickel over copper alloy.

STATOR CONTACTS: Hard gold over nickel over copperon epoxy

fiberglass.

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

Note: All models listed are RoHS compliant. See Technical Data section of this catalog for RoHS compliant and compatible definitions and specifications.

#### **Build-A-Switch**

To order, simply select desired option from each category and place in the appropriate box. Available options are shown and described on pages N–4 thru N–6. For additional options not shown in catalog, consult Customer Service Center. Consult factory for illumination availability.

Series **3U** Tiny pushwheel **Number of Sections** O Switch section **Function Code** 1 Switch section 21 BCD 1-2-4-8 2 Switch sections 71 BCH, 16 position Mounting Style 3 Switch sections 4 Switch sections O Snap-in, front mount 5 Switch sections Terminations 6 Switch sections Short PC board 7 Switch sections **Dust Lens** N Short PC board with pins\* 8 Switch sections O No lens Any combination More than 8 switch sections Dust lens

- Color/Marking/Stops
- O Matte black housing, gloss black wheel, extended actuator, white vertical characters, black pushbutton, no stops
- 9 Combination of body colors, wheel colors, marking and/or stops
- A Matte black housing, gloss black wheel, extended actuator, white horizontal characters, black pushbutton, no stops
- C Matte black housing, gloss black wheel, recessed actuator, white vertical characters, black pushbutton, no stops
- E Matte black housing, gloss black wheel, recessed actuator, white horizontal characters, black pushbutton, no stops



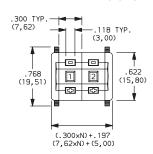


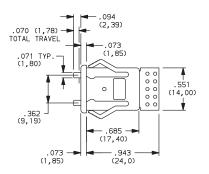
<sup>\*</sup> Note: Termination option N (RoHS compliant) replaces termination option 3 (non-RoHS compliant).

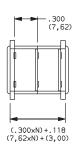
## **C&K 3U Series Tiny Pushwheel Switches**

### SERIES ----

3U 1/2" TINY PUSHWHEEL WITH EXTENDED ACTUATOR







N = Number of sections.

### NUMBER OF SECTIONS -----

- O Switch section only, no endplates.
- 1-8 Number of switch sections in assembly, includes endplates.
- 9 More than 8 switch sections, specify on CONFIGURATION FORM, page N-7 and consult Customer Service Center.

NOTE: Endplates and blank sections available separately, see page N-6.

### FUNCTION CODE

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

Available Terminations: 0, N See figs. 2 & 3, page N-5.

71 BINARY CODED HEXADECIMAL,16 POSITION

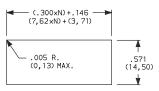
	M H	SIG	NAL M.	S CC SIG.	ONN.	TC		
	¥±ww⊔	1	2	4	8	С		
- 1	0					•		
	1	•				•		
- 1	2		•			•		
	3	•	•			•		
- 1	4			•		•		
	5	•		•		•		
1	6		•	•		•		
	7	•		•		•		
- 1	8				•	•		
- 1	9	•			•	•		
- 1	Α		•		•	•		
	В	•	•		•	•		
- 1	С			•	•	•		
	D	•		•	•	•		
	Е		•	•	•	•		
	F	•	•	•	•	•		
		2	3	4	5	1		
		TER	м.	LOCATION				

Available Terminations: 0, N See fig. 2, page N-5.

**NOTE:** ESD pin available, consult Customer Service Center. For terminal location diagrams, see page N-5.

## MOUNTING STYLE

O SNAP-IN FRONT MOUNTING



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





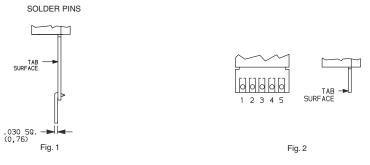
#### ---**TERMINATIONS** SHORT PC BOARD SHORT PC BOARD, TYPE 0 ANY COMBINATION OF TERMINATION WITH SOLDER PINS CONFIGURATION OR SPECIAL TERMINATIONS. .043 DIA.TYP. .043 DIA.TYP. Specify on configuration form, page N-7 and consult Customer Service Center. -**5**0000 0000 **-**0 0 0 0 0 -.100 TYP. (2,54) .236 .100 TYP. (2,54) - .551 (14,00) -.100 TYP.

Note: Termination option N (RoHS compliant) replaces termination option 3 (non-RoHS compliant).

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

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

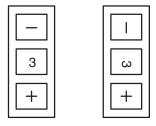
#### **Terminal Location Numbers**



NOTE: See function codes, page N-4 for signal locations.

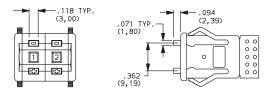


- MATTE BLACK HOUSING (Gloss black wheel with extended actuator, white vertical characters, black pushbuttons, no stops.)
- 9 SPECIAL COLORS, MARKINGS FOR HOUSING OR WHEEL, STOPS (Specify on CONFIGURATION FORM, page N-7 and consult Customer Service Center.)
- A MATTE BLACK HOUSING (Gloss black wheel with white horizontal characters, extended actuator, black pushbuttons, no stops.)
- MATTE BLACK HOUSING (Gloss black wheel with white vertical characters, recessed actuator, black pushbuttons, no stops.)
- MATTE BLACK HOUSING (Gloss black wheel with white horizontal characters, recessed actuator, black pushbuttons, no stops.)

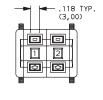


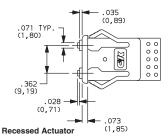
Vertical Characters

**Horizontal Characters** 



**Extended Actuator** 







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



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#### DUST LENS

0 NO LENS

2 DUST LENS (Protects character face of the wheel from abrasion and dust.)

## **AVAILABLE HARDWARE**

Blank section, .302 THK. (Replaces active section.)



PART NO.

123B02000 BLACK

End plates





PART NO.

113B02000 LEFT-BLACK

114B02000 RIGHT-BLACK

One left and one right piece required for complete assembly.





		Co GRAY SHAI	nfigu	Ira <sup>†</sup>	tion LED IN BY	Fo	rm ER SER	VICE.			C&K PART NUMBER
CATALOG PA	ART NO.								RT NUMBER		ART NU
3 L	J										MBER
COMPANY NAME									CUSTOME PRINT		
ADDRESS TEL.#							REVISION:				
CUSTOMER CONTAC	T		D	ATE					DETAILS:		
ORIGINATED BY			S	ALES	REP.						
PUSHWHEEL SECTIONS	NO. OF SEC.	FUNCTION CODE— TERMINATIONS— COLOR/MARKING/STOPS/SEAL— ILLUMINATION ENTER OPTION CODES IN APPROPRIATE BOXES. FUNCTION CODES INCLUDE BLANK SECTIONS (SEE PAGE M-4).					DES	SCRIBE IN AP	PROPRI	ATE ROW	
	1	3 U –		_							
0 0	2	3 U -									
	3	3 U -									
0 4 0	4	3 U -		_							
0 <b>5</b> 0	5	3 U -									
0 0 0	6	3 U –		_							
070	7	3 U –						1			
	8	3 U –						]			
	9	3 U –		_				1			
000	10	3 U –		=							
	11	3 U –		_							
QUALITY CONTROL INSTRUCTIONS					PRODUCTION APPROVAL DATE					ATE	
					Q.	Q.C. APPROVAL			DA	ATE	
						RE	V.	II.	IITIALS	DA	ATE
FOR SWITCHES WITH MORE THA	AN 11 SECTIONS	, CONTINUE ON AL	DITIONAL SH	EETS.							
SPECIAL INSTRUCT	IONS OR	SPECIFICAT	TIONS:								

N-7



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

SHEET \_\_\_\_OF \_