

**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°C to 65°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 copper on 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												
0 Switch section												
1 1 Switch section												
2 2 Switch sections												
3 3 Switch sections												
4 4 Switch sections												
5 5 Switch sections												
6 6 Switch sections												
7 7 Switch sections												
8 8 Switch sections												
9 More than 8 switch sections												
Color/Marking/Stops												
0 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												
Function Code	21 BCD 1-2-4-8											
71 BCH, 16 position												
Mounting Style												
0 Snap-in, front mount												
Terminations												
0 Short PC board												
N Short PC board with pins*												
9 Any combination												
Dust Lens												
0 No lens												
2 Dust lens												

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

# C&K 3U Series

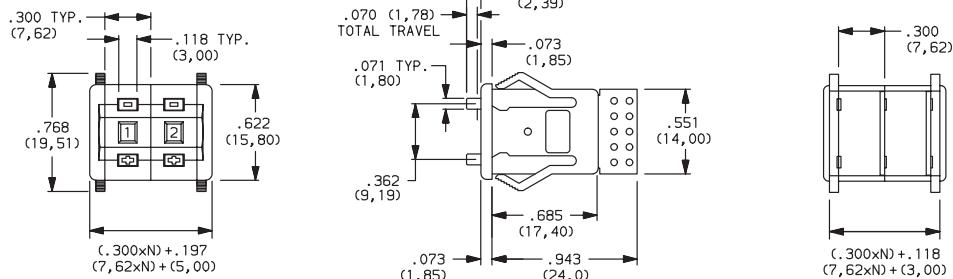
查询"3U321000"供应商

## Tiny Pushwheel Switches

### SERIES

**3U**

1/2" TINY PUSHWHEEL WITH EXTENDED ACTUATOR



N = Number of sections.

### NUMBER OF SECTIONS

**0**

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

**71**

BINARY CODED HEXADECIMAL,  
16 POSITION

W H E E L	SIGNALS CONN. TO COMM. SIG. C				
	1	2	4	8	C
0					●
1	●				●
2		●			●
3	●	●			●
4		●	●		●
5	●	●	●		●
6		●	●	●	●
7	●	●	●	●	●
8		●	●	●	●
9	●		●	●	●
	1	2	3	4	5
	TERM. LOCATION				

Available Terminations: 0, N

See figs. 2 & 3, page N-5.

W H E E L	SIGNALS CONN. TO COMM. SIG. C				
	1	2	4	8	C
0					●
1	●				●
2		●			●
3	●	●			●
4		●	●		●
5	●		●		●
6		●	●	●	●
7	●	●	●	●	●
8		●	●	●	●
9	●		●	●	●
A		●		●	●
B	●	●		●	●
C		●	●	●	●
D	●		●	●	●
E		●	●	●	●
F	●	●	●	●	●
	2	3	4	5	1
	TERM. LOCATION				

Available Terminations: 0, N

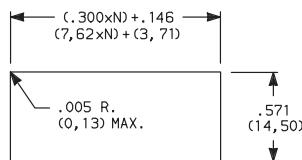
See fig. 2, page N-5.

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

### MOUNTING STYLE

**0**

SNAP-IN FRONT MOUNTING

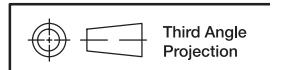


N = Number of sections

Recommended panel thickness:

.039-.156

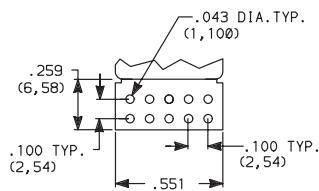
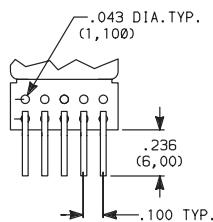
(0,99-3,95)



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

## TERMINATIONS

## 0 SHORT PC BOARD

N SHORT PC BOARD, TYPE 0  
WITH SOLDER PINS9 ANY COMBINATION OF TERMINATION  
CONFIGURATION OR SPECIAL TERMINATIONS.

Specify on configuration form, page N-7  
and consult Customer Service Center.

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

## SOLDER PINS

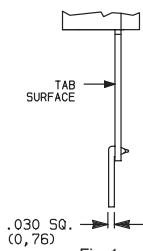


Fig. 1

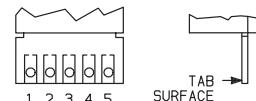


Fig. 2

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

## COLOR/MARKING/STOPS

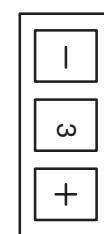
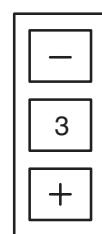
## 0 MATTE BLACK HOUSING (Gloss black wheel with extended actuator, white vertical characters, black pushbuttons, no stops.)

9 SPECIAL COLORS, MARKINGS FOR HOUSING OR WHEEL, STOPS (Specify on CONFIGURATION FORM, page N-7 and consult Customer Service Center.)

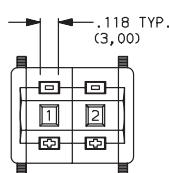
## A MATTE BLACK HOUSING (Gloss black wheel with white horizontal characters, extended actuator, black pushbuttons, no stops.)

## C MATTE BLACK HOUSING (Gloss black wheel with white vertical characters, recessed actuator, black pushbuttons, no stops.)

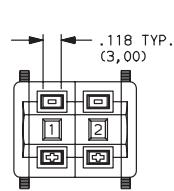
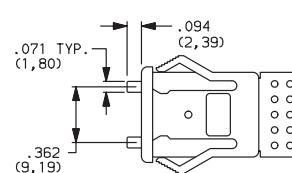
## E MATTE BLACK HOUSING (Gloss black wheel with white horizontal characters, recessed actuator, black pushbuttons, no stops.)



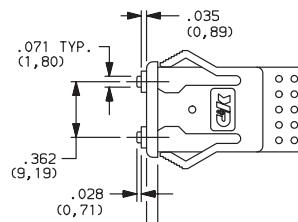
Vertical Characters      Horizontal Characters



Extended Actuator



Recessed Actuator



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

# C&K 3U Series

查询"3U321000"供应商

## Tiny Pushwheel Switches

### 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



LEFT-with hole



RIGHT-with pin

PART NO.

**113B02000** LEFT-BLACK

**114B02000** RIGHT-BLACK

One left and one right  
piece required for  
complete assembly.



## Configuration Form

GRAY SHADED AREAS TO BE FILLED IN BY CUSTOMER SERVICE.

CATALOG PART NO.

3 U

C&amp;K PART NUMBER

C&amp;K PART NUMBER

COMPANY NAME

CUSTOMER  
PRINT  
REVISION:

ADDRESS TEL.#

CUSTOMER CONTACT DATE

DETAILS:

ORIGINATED BY SALES 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).	DESCRIBE IN APPROPRIATE ROW
	1	3 U -		
	2	3 U -		
	3	3 U -		
	4	3 U -		
	5	3 U -		
	6	3 U -		
	7	3 U -		
	8	3 U -		
	9	3 U -		
	10	3 U -		
	11	3 U -		

QUALITY CONTROL INSTRUCTIONS

PRODUCTION APPROVAL

DATE

Q.C. APPROVAL

DATE

REV. INITIALS

DATE

FOR SWITCHES WITH MORE THAN 11 SECTIONS, CONTINUE ON ADDITIONAL SHEETS.

SPECIAL INSTRUCTIONS OR SPECIFICATIONS:

SHEET \_\_\_\_ OF \_\_\_\_