

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
- Illuminated backlighting available

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 Ω 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 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.

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 M-4 thru M-6. For additional options not shown in catalog, consult Customer Service Center.

Consult factory for illumination availability.

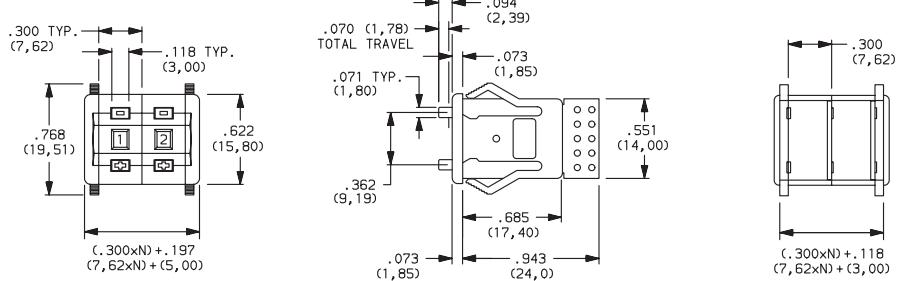
Series	3U (STD.) Tiny pushwheel			
Number of Sections	Function Code		Mounting Style	
0 Switch section	21 BCD 1-2-4-8		0 (STD.) Snap-in, front mount	
1 1 Switch section	71 BCH, 16 position			
2 2 Switch sections				
3 3 Switch sections				
4 4 Switch sections				
5 5 Switch sections				
6 6 Switch sections				
7 7 Switch sections				
8 8 Switch sections				
9 More than 8 switch sections				
Color/Marking/Stops				
0 (STD.) 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				
Dust Lens				
0 (STD.) No lens				
2 Dust lens				



C&K 3U Series Tiny Pushwheel Switches

SERIES

3U (STD.) 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 M-7 and consult Customer Service Center.

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

FUNCTION CODE

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

W H	SIGNALS CONN. TO				
	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, 3
See figs. 2 & 3, page M-5.

71 BINARY CODED HEXADECIMAL,
16 POSITION

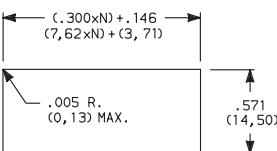
W H	SIGNALS CONN. TO				
	1	2	4	8	C
0					●
1	●				●
2		●			●
3	●	●			●
4			●		●
5	●		●		●
6		●	●		●
7	●	●	●		●
8				●	●
9	●			●	●
A		●		●	●
B	●	●		●	●
C			●	●	●
D	●		●	●	●
E		●	●	●	●
F	●	●	●	●	●
	2	3	4	5	1
	TERM. LOCATION				

Available Terminations: 0, 3
See fig. 2, page M-5.

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

MOUNTING STYLE

0 (STD.) SNAP-IN FRONT MOUNTING



N = Number of sections

Recommended panel thickness:
.039-.156
(0.99-3.95)



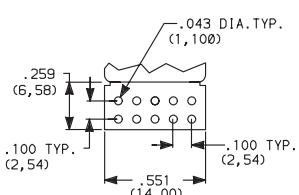
Dimensions are shown: IN (mm)
Dimensions subject to change



C&K 3U Series Tiny Pushwheel Switches

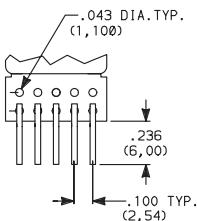
TERMINATIONS

0 (STD.) SHORT PC BOARD



Not available with illuminated models.

3 SHORT PC BOARD, TYPE 0 WITH SOLDER PINS



Not available with illuminated models.

9 ANY COMBINATION OF TERMINATION CONFIGURATION OR SPECIAL TERMINATIONS.

Specify on configuration form, page M-7 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

SOLDER PINS

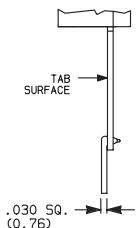


Fig. 1



Fig. 2

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

COLOR/MARKING/STOPS

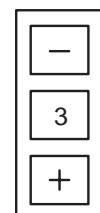
0 (STD.) MATTE BLACK HOUSING (Gloss black wheel with extended actuator, white vertical characters, black pushbuttons, no stops.)

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

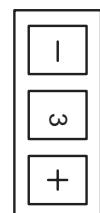
A MATTE BLACK HOUSING (Gloss black wheel with white horizontal characters, extended actuator, black pushbuttons, no stops.)

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

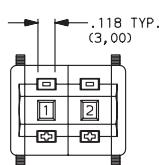


Horizontal Characters

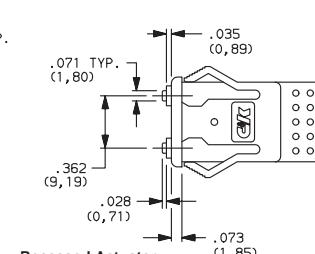
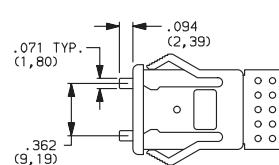
Thumbwheel & Pushwheel



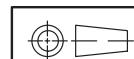
M



Extended Actuator



Recessed Actuator



Third Angle
Projection

Dimensions are shown: IN (mm)
Dimensions subject to change



ITT Industries

Cannon

C&K 3U Series Tiny Pushwheel Switches

DUST LENS

- 0** (STD.) 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
123B09000 GRAY

End plates



LEFT-with hole



RIGHT-with pin

PART NO.

113B02000 LEFT-BLACK
113B09000 LEFT-GRAY
114B02000 RIGHT-BLACK
114B09000 RIGHT-GRAY

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&K PART NUMBER

C&K PART NUMBER

COMPANY NAME

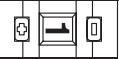
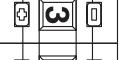
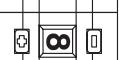
CUSTOMER
PRINT
REVISION:

ADDRESS TEL.#

CUSTOMER CONTACT DATE

ORIGINATED BY SALES REP.

DETAILS:

PUSHWHEEL SECTIONS	NO. OF SEC.	FUNCTION CODE- TERMINATIONS- COLOR/MARKING/STOPS/SEAL- ILLUMINATION <small>ENTER OPTION CODES IN APPROPRIATE BOXES. FUNCTION CODES INCLUDE BLANK SECTIONS (SEE PAGE M-4).</small>	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

Thumbwheel & Pushwheel



M

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

[C&K Components:](#)

[113B02000](#) [114B02000](#)