#### 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 copper on epoxy

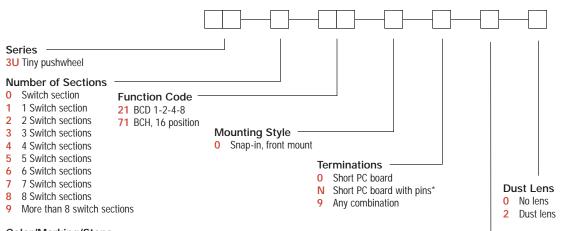
fiberglass.

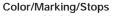
**NOTE:** Specifications and materials listed above are for switches with standard options. For information on specific and custom switches, consult Customer Service Center.

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**

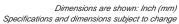
To order, simply select desired option from each category and place in the appropriate box. Available options are shown and described on pages N–4 thru N–6. For additional options not shown in catalog, consult Customer Service Center. Consult factory for illumination availability.





- 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

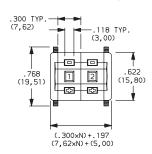


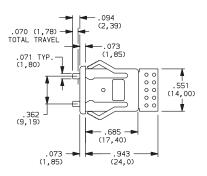


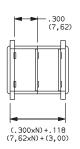
<sup>\*</sup> Note: Termination option N (RoHS compliant) replaces termination option 3 (non-RoHS compliant)

#### 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

WHEEL	SIGNALS CONN. TO COMM. SIG. C							
Ē	1	2	4	8	С			
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.

71 BINARY CODED HEXADECIMAL, 16 POSITION

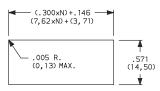
0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	W H H H L	SIGNALS CONN. TO COMM. SIG. C								
0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	E	1	2	4	8	С				
2	0					•				
3	1	•				•				
4	2		•			•				
5	3	•	•			•				
6	4			•		•				
7	5	•		•		•				
8	6		•	•		•				
9	7	•	•	•		•				
A B C C C C C C C C C C C C C C C C C C	8				•	•				
B	9	•			•	•				
C D O O O O O O O O O O O O O O O O O O	Α		•		•	•				
D	В	•	•		•	•				
E	С			•	•	•				
F	D	•		•	•	•				
2 3 4 5 1	Е		•	•	•	•				
	F	•	•	•	•	•				
TERM LOCATION		2	3	4	5	1				
TERM. LOCATION		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)

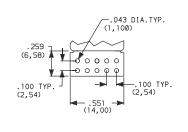




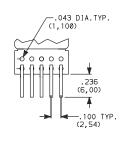
Dimensions are shown: Inch (mm) Specifications and dimensions subject to change

#### TERMINATIONS ----

O SHORT PC BOARD



N SHORT PC BOARD, TYPE 0 WITH SOLDER PINS



9 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**



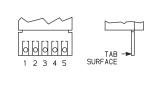
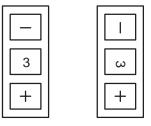


Fig. 2

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

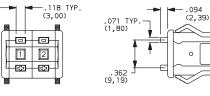
## COLOR/MARKING/STOPS

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



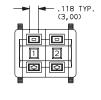


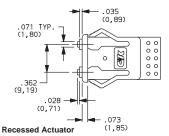
**Horizontal Characters** 



**Extended Actuator** 

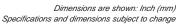






Third Angle Projection





### 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

PART NO.

113B02000 LEFT-BLACK

114B02000 RIGHT-BLACK

One left and one right piece required for complete assembly.







				gura EAS TO BE FI								C&K PART NUMBER
CATALOG PART N	CATALOG PART NO.								C&K PART NUMBER			
3 U												MBER
MPANY NAME										USTOM	IER	
DRESS				_ TEL.#					R	EVISIO	N:	
STOMER CONTACT_				DATE					_ [	ETAILS	:	
GINATED BY												
PUSHWHEEL SECTIONS	NO. OF SEC.		R/MA II	CODE— TARKING/S LUMINA S IN APPROP BLANK SECTI	STOPS	S/SE	AL–	I	DESCR	RIBE IN A	APPROF	PRIATE F
	1	3 U –		_								
0 0	2	3 U -										
0 W 0	3	3 U -										
0 4 0	4	3 U -				İ						
	5	3 U -				İ						
	6	3 U -				İ						
	7	3 U -										
	8	3 U –										
	9	3 U –										
	10	3 U -										
	11	3 U -		_								
QUALITY	CONT	TROL INST	RUCT	IONS			PROD	UCT	ION A	PPROV.	AL	DATE
							Q.C. A	PPR	OVAL			DATE
							REV.		INITI	ALS		DATE
SWITCHES WITH MORE THAN 11												
ECIAL INSTRUCTION	IS OR	SPECIFICA	TION	S:								

N-7



Dimensions are shown: Inch (mm)

SHEET \_\_\_