

3U Series Tiny Pushwheel Switches

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 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 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	
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	
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	

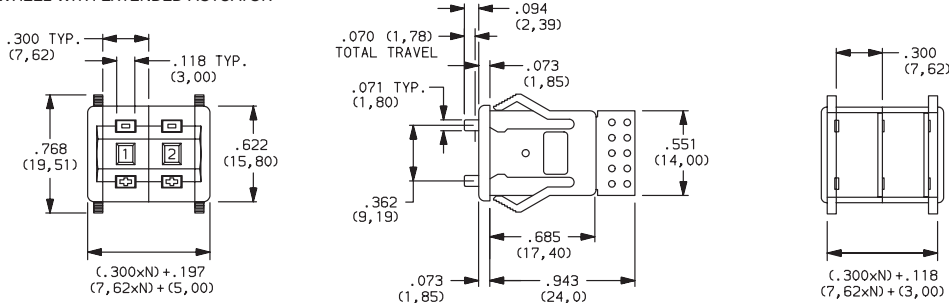
* Note: Termination option N (RoHS compliant) replaces termination option 3 (non-RoHS compliant).



3U Series 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.

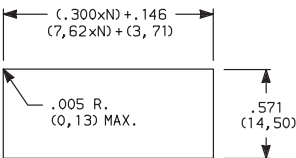
W H E E L	SIGNALS CONN. TO COMM. SIG. C				
	1	2	4	8	C
0					●
1	●				●
2		●			●
3	●	●			●
4			●		●
5	●		●		●
6		●	●		●
7	●	●	●		●
8				●	●
9	●			●	●
A		●	●	●	●
B	●		●	●	●
C			●	●	●
D	●		●	●	●
E		●	●	●	●
F	●	●	●	●	●
	2	3	4	5	1
	TERM. LOCATION				

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

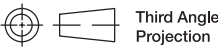
NOTE: ESD pin available, consult Customer Service Center.
For terminal location diagrams, see page N-5.

MOUNTING STYLE

- 0 SNAP-IN FRONT MOUNTING



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



Third Angle
Projection

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

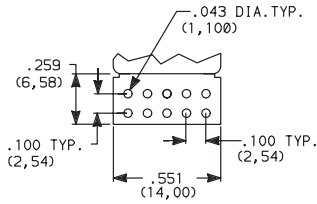
www.ck-components.com



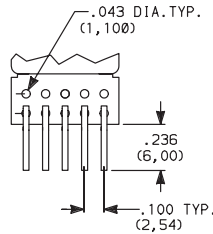
3U Series Tiny Pushwheel Switches

TERMINATIONS

0 SHORT PC BOARD



N SHORT PC BOARD, TYPE 0
WITH SOLDER PINS



9 ANY COMBINATION OF TERMINATION
CONFIGURATION OR SPECIAL TERMINATIONS.

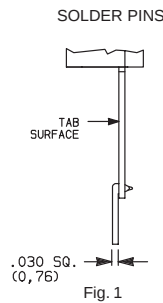
Specify on configuration form, page N-7
and consult Customer Service Center.

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



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

COLOR/MARKING/STOPS

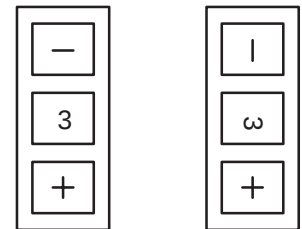
0 MATTE BLACK HOUSING (Gloss black wheel with extended actuator, white vertical characters, black pushbuttons, no stops.)

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

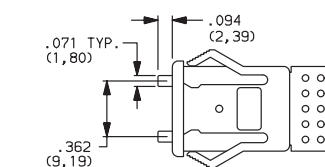
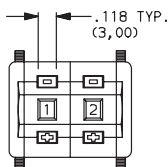
A MATTE BLACK HOUSING (Gloss black wheel with white horizontal characters, extended actuator, black pushbuttons, no stops.)

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

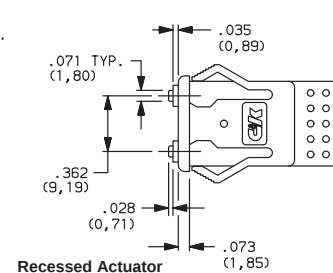
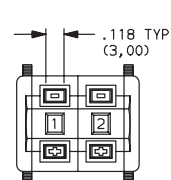
E MATTE BLACK HOUSING (Gloss black wheel with white horizontal characters, recessed actuator, black pushbuttons, no stops.)



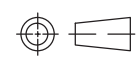
Vertical Characters Horizontal Characters



Extended Actuator



Recessed Actuator



Third Angle
Projection

C&K

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

3U Series 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.

Thumbwheel & Pushwheel



N



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

3U Series Tiny Pushwheel Switches

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 _____

ADDRESS _____ TEL.# _____

CUSTOMER CONTACT _____ DATE _____

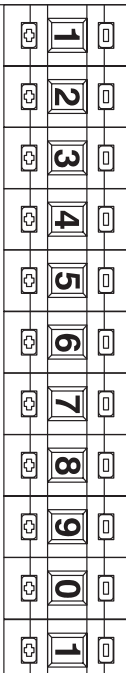
ORIGINATED BY _____ SALES REP. _____

CUSTOMER
PRINT
REVISION:

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DETAILS:

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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	<table><tr><td>3</td><td>U</td><td>–</td><td></td><td></td><td>–</td><td></td><td></td><td></td><td></td></tr></table>	3	U	–			–					
	3	U	–			–							
	2	<table><tr><td>3</td><td>U</td><td>–</td><td></td><td></td><td>–</td><td></td><td></td><td></td><td></td></tr></table>	3	U	–			–					
	3	U	–			–							
	3	<table><tr><td>3</td><td>U</td><td>–</td><td></td><td></td><td>–</td><td></td><td></td><td></td><td></td></tr></table>	3	U	–			–					
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	3	U	–			–							
	5	<table><tr><td>3</td><td>U</td><td>–</td><td></td><td></td><td>–</td><td></td><td></td><td></td><td></td></tr></table>	3	U	–			–					
	3	U	–			–							
	6	<table><tr><td>3</td><td>U</td><td>–</td><td></td><td></td><td>–</td><td></td><td></td><td></td><td></td></tr></table>	3	U	–			–					
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9	<table><tr><td>3</td><td>U</td><td>–</td><td></td><td></td><td>–</td><td></td><td></td><td></td><td></td></tr></table>	3	U	–			–						
3	U	–			–								
10	<table><tr><td>3</td><td>U</td><td>–</td><td></td><td></td><td>–</td><td></td><td></td><td></td><td></td></tr></table>	3	U	–			–						
3	U	–			–								
11	<table><tr><td>3</td><td>U</td><td>–</td><td></td><td></td><td>–</td><td></td><td></td><td></td><td></td></tr></table>	3	U	–			–						
3	U	–			–								

QUALITY CONTROL INSTRUCTIONS

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PRODUCTION APPROVAL DATE

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Q.C. APPROVAL DATE

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REV. INITIALS DATE

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

SPECIAL INSTRUCTIONS OR SPECIFICATIONS:

SHEET ____ OF ____



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



Компания «Life Electronics» занимается поставками электронных компонентов импортного и отечественного производства от производителей и со складов крупных дистрибьюторов Европы, Америки и Азии.

С конца 2013 года компания активно расширяет линейку поставок компонентов по направлению коаксиальный кабель, кварцевые генераторы и конденсаторы (керамические, пленочные, электролитические), за счёт заключения дистрибьюторских договоров

Мы предлагаем:

- Конкурентоспособные цены и скидки постоянным клиентам.
- Специальные условия для постоянных клиентов.
- Подбор аналогов.
- Поставку компонентов в любых объемах, удовлетворяющих вашим потребностям.
- Приемлемые сроки поставки, возможна ускоренная поставка.
- Доставку товара в любую точку России и стран СНГ.
- Комплексную поставку.
- Работу по проектам и поставку образцов.
- Формирование склада под заказчика.
- Сертификаты соответствия на поставляемую продукцию (по желанию клиента).
- Тестирование поставляемой продукции.
- Поставку компонентов, требующих военную и космическую приемку.
- Входной контроль качества.
- Наличие сертификата ISO.

В составе нашей компании организован Конструкторский отдел, призванный помогать разработчикам, и инженерам.

Конструкторский отдел помогает осуществить:

- Регистрацию проекта у производителя компонентов.
- Техническую поддержку проекта.
- Защиту от снятия компонента с производства.
- Оценку стоимости проекта по компонентам.
- Изготовление тестовой платы монтаж и пусконаладочные работы.



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