1

IVI

3P Series Miniature Pushwheel Switches



Features/Benefits

- Snap-in front mount design for easy assembly
- 10 position models available

Typical Applications

- Test & measurement equipment
- Industrial machinery
- Computer peripherals

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: 100,000 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: Polycarbonate (UL 94V-0). PUSHWHEEL: Polycarbonate (UL 94V-0). PUSHBUTTON: Polycarbonate (UL 94V-0).

ROTOR CONTACTS: Gold over nickel over copper alloy. STATOR CONTACTS: Hard gold over nickel over copper

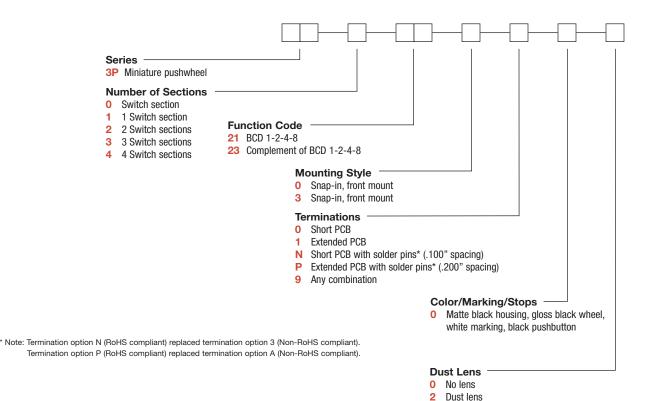
on epoxy fiberglass.

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 M-12 thru M-15. For additional options not shown in catalog, consult Customer Service Center. Consult factory for illumination availability.





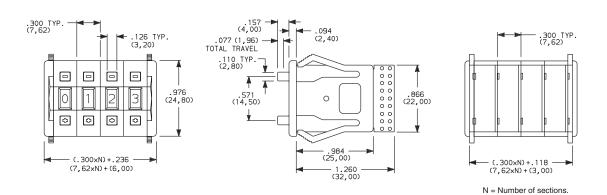
Dimensions are shown: Inches (mm) Specifications and dimensions subject to change

3P Series

Miniature Pushwheel Switches

SERIES ----

3P MINIATURE PUSHWHEEL SWITCH



NUMBER OF SECTIONS - - - - - - -

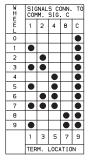
- Switch section only, no endplates.
- 1-4 Number of switch sections in assembly, includes endplates.

NOTE: Endplates and blank sections available separately, see page M-14.

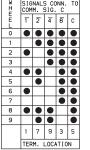
FUNCTION CODE ---

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

COMPLEMENT OF BCD 1-2-4-8, 10 POSITION



Available Terminations: P, 0, 1, N See figs. 2 & 3, page N-19.



Available Terminations: 0, 1, N See figs. 2 & 3, page N-19.

NOTE: For terminal location diagrams, see page M-14.



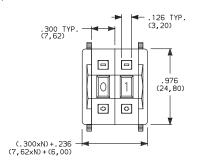
Dimensions are shown: Inches (mm) Specifications and dimensions subject to change

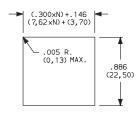


3P Series Miniature Pushwheel Switches

MOUNTING STYLE

SNAP-IN FRONT MOUNT, SECTION PITCH: .300 (7,62) EACH SECTION

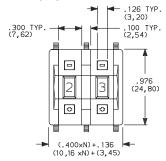


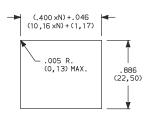


N = Number of sections

Recommended panel thickness: .039-.156 (0,99-3,95)

3 SNAP-IN FRONT MOUNT WITH SPACER, SECTION PITCH: .400 (70,16) EACH SECTION, LAST SECTION .300 (7,62)



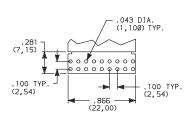


N = Number of sections

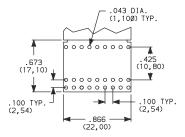
Recommended panel thickness: .039-.156 (0,99-3,95)

TERMINATIONS ----

O SHORT PCB



1 EXTENDED PCB WITH PROVISION FOR COMPONENTS



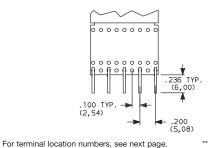
N SHORT PCB, TYPE 0 WITH SOLDER PINS

.100 TYP. - .200 (2,54) .236 TYP. .200

For terminal location numbers, see next page

P EXTENDED PCB, TYPE 1 WITH SOLDER PINS

Signal traces cut, except for common(s).



Signal traces cut, except for common(s).

9 ANY COMBINATION OF TERMINATION
CONFIGURATIONS OR SPECIAL TERMINATIONS

Specify on configuration form, page M-15 and consult Customer Service Center.

** Note: Termination option N (RoHS compliant) replaced termination option 3 (Non-RoHS compliant).

Termination option P (RoHS compliant) replaced termination option A (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.



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



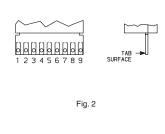
3P Series

Miniature Pushwheel Switches

TERMINATIONS ---

Terminal Location Numbers





COLOR/MARKING/STOPS

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

DUST LENS

0 NO LENS

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



AVAILABLE HARDWARE

Blank sections, .300 THK.



End plates



Spacers, .100 THK. (Makes section pitch .400)



663702000 BLACK

PART NO.

623502000 LEFT-BLACK

LEFT-with hole

623602000 RIGHT-BLACK

One left and one right piece required for complee assembly.

RIGHT-with pin

PART NO.

663602000 BLACK

Stop pins



PART NO. 657800000



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



Miniature Pushwheel Switches

3P Series

C&K PART NUMBER C&K PART NUMBER **CUSTOMER PRINT REVISION: DETAILS**:

ORIGINATED BY			SALES	REP				
PUSHWHEEL SECTIONS	FUNCTION CODE – TERMINATIONS – COLOR/MARKING/STOPS/SEAL – ILLUMINATION ENTER OPTION CODES IN APPROPRIATE BOXES. FUNCTION CODES INCLUDE BLANK SECTIONS (SEE PAGE M-17).				DESCF	RIBE IN APPRO	OPRIATE ROW	
	1	3 P -	_					
	2	3 P -	_					
<u></u>	3	3 P -	_					
	4	3 P -	_					
	5	3 P -	_					
0 0	6	3 P -	_					
	7	3 P -	_					
	8	3 P -	_					
0 0	9	3 P -	_					
0 0	10	3 P -	_					
	11	3 P -	_					
QUALITY CONTROL INSTRUCTIONS PRODU						CTION A	APPROVAL	DATE
Q.C.						C. APPROVAL		DATE
					REV.	INIIT	TALS	DATE
					1 1 L V.	11 11 1	17 (20	DATE
FOR SWITCHES WITH MORE THAN 11 SECTIONS, CONTINUE ON ADDITIONAL SHEETS.								
SPECIAL INSTRUCTIONS OR SPECIFICATIONS:								

Configuration Form GRAY SHADED AREAS TO BE FILLED IN BY CUSTOMER SERVICE.

_____ TEL.# __

DATE

CATALOG PART NO.

COMPANY NAME

ADDRESS _____

CUSTOMER CONTACT



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

SHEET ____ OF __