### 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  $\Omega$  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: 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

0 No lens2 Dust lens

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.

Series 3P Miniature pushwheel **Number of Sections** Switch section 1 Switch section **Function Code** 2 Switch sections 21 BCD 1-2-4-8 3 Switch sections 23 Complement of BCD 1-2-4-8 4 Switch sections Mounting Style Snap-in, front mount Snap-in, front mount **Terminations** Short PCB Extended PCB Short PCB with solder pins\* (.100" spacing) Extended PCB with solder pins\* (.200" spacing) Any combination Color/Marking/Stops Matte black housing, gloss black wheel, white marking, black pushbutton \* 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) **Dust Lens** 



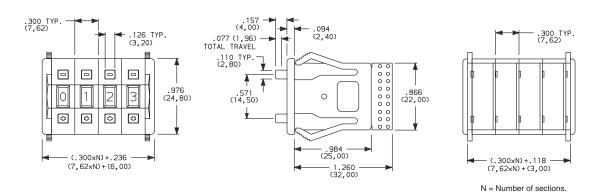
Dimensions are shown: Inches (mm) Specifications and dimensions subject to change

### 3P Series

### **Miniature Pushwheel Switches**

SERIES ----

3P MINIATURE PUSHWHEEL SWITCH



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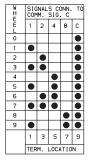
- Switch section only, no endplates.
- 1-4 Number of switch sections in assembly, includes endplates.

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

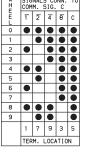
### FUNCTION CODE

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

23 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.



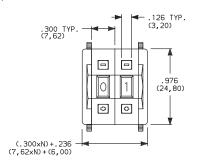
Dimensions are shown: Inches (mm) Specifications and dimensions subject to change

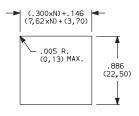


# 3P Series Miniature Pushwheel Switches

### MOUNTING STYLE

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

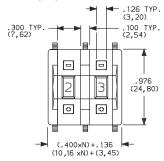


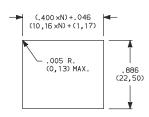


N = Number of sections

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)



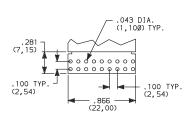


N = Number of sections

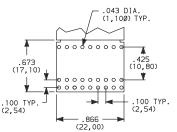
Recommended panel thickness: .039-.156 (0,99-3,95)

### TERMINATIONS ----

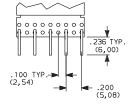
O SHORT PCB



1 EXTENDED PCB WITH PROVISION FOR COMPONENTS



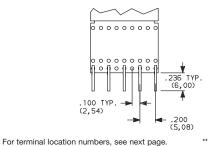
N SHORT PCB, TYPE 0 WITH SOLDER PINS



Signal traces cut, except for common(s). For terminal location numbers, see next page

P EXTENDED PCB, TYPE 1 WITH SOLDER PINS

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



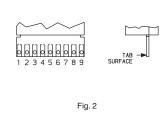
### **3P Series**

### **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)



PART NO.

623502000 LEFT-BLACK

One left and one right 623602000 RIGHT-BLACK piece required for complee assembly.

PART NO.

663602000 BLACK

Stop pins

663702000 BLACK



PART NO. 657800000



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



Third Angle Projection

# **3P Series Miniature Pushwheel Switches**

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

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