## Features/Benefits

- Most complete product offering in the industry
- Spacers available to fit most panel cutouts
- Front or rear mounting options


## Typical Applications

- Test \& measurement equipment
- Industrial equipment
- Computer devices



## Specifications

CONTACT RATING:
CARRY: 1 AMP continuous.
SWITCH: 100 mA max.
OPERATING VOLTAGE: 50 mV to 28 V DC or 120 V AC.
ELECTRICAL LIFE: 100,000 actuations.
CONTACT RESISTANCE: Below $100 \mathrm{~m} \Omega$ typ. initial @
2-4 V DC, 100 mA .
INSULATION RESISTANCE: $10^{9} \Omega \mathrm{~min}$.
DIELECTRIC STRENGTH: 500 Vrms min. @ sea level
between common terminal and any output.

## Materials

HOUSING: ABS plastic.
THUMBWHEEL: ABS plastic.
ROTOR CONTACTS: Precious metal on 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.

OPERATING TEMPERATURE: $-40^{\circ} \mathrm{C}$ to $65^{\circ} \mathrm{C}$.

## 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-10. For additional options not shown in catalog, consult Customer Service Center.
Consult factory for illumination availability.


## 

3 thumbwheel switches


## NUMBER OF SECTIONS - $\square$ ■ா

0 Switch section only, no assembly. Blank bodies are considered sections; endplates are not sections. Must be ordered with 09 or 19 mounting style options, see pages $\mathrm{M}-5$ and $\mathrm{M}-6$.

1-8 Number of switch sections in assembly, includes endplates.
9 More than 8 switch sections, specify on CONFIGURATION FORM, page M-10 and consult Customer Service Center.

NOTE: Endplates and blank sections available separately, see pages $\mathrm{M}-13$ and $\mathrm{M}-14$.

## FUNCTION CODE $-\square \square \square \square \square$

11 dECIMAL-1 POLE; 10 POSITION


Available Terminations: $0,1, \mathrm{~N}$
See fig. 1, page M-7.

14 resistor decade; 1-2-2-2-2 CODE (RESISTORS NOT SUPPLIED)


Available Terminations: 1
See fig. 1, page M-7.


Available Terminations: $0,1, \mathrm{~N}$ See fig. 1, page M-7.

## 3 Series <br> Thumbwheel Switches



NOTE: For terminal location diagram, see page M-7.

## 

Type 0 Snap-In Front Mount

| MOUNTING <br> STYLE | DIM. 'A' |
| :---: | :---: |
| 00 | $(.315 \times N)+.326$ <br> $(8,00 \times N)+(8,28)$ |
| $\mathrm{N}=$ Number of sections. |  |
| Recommended panel thickness: |  |
| 0 | $0.46-.125$ <br> $(1,16-3,18)$ |

PANEL MOUNTING


00
SWITCH ASSEMBLY W/ ENDPLATES-. $315(8,00)$ SECTION PITCH

$\mathrm{N}=$ Number of sections.

09 SWITCH SECTION ONLY-UNASSEMBLED WITHOUT ENDPLATES OR SPACERS (Must be ordered with number of sections option " 0 ", see Page M-4.)

## 3 Series <br> Thumbwheel Switches



## Type 1 Rear Mount

| MOUNTING <br> STYLE | DIM. 'A' | DIM. 'B' |
| :---: | :---: | :---: |
| N = Number of sections. |  |  |
|  | Recommended panel thickness: |  |  |
|  | $(8,46-.125$ |  |
| $(10,89 \times N)+(8,64)$ | $(8,89 \times N)+(14,22)$ |  |
| $(1,16-3,18)$ |  |  |

PANEL MOUNTING


10
SWITCH ASSEMBLY W/ ENDPLATES-. 350 (8,89) SECTION PITCH


19 SWITCH SECTION ONLY-UNASSEMBLED WITHOUT ENDPLATES OR SPACERS (Must be ordered with number of sections option " 0 ", see Page M-4.)

## 3 Series <br> Thumbwheel Switches



NOTE: All terminal holes shown may not be present for all function codes, consult Customer Service Center. Terminal connector available for termination options 0 \& 1, see page M-9.

NOTE: Termination option N (RoHS compliant) replaced termination option 3 (Non-RoHS compliant). Termination option P (RoHS compliant) replaced termination option B (Non-RoHS compliant).

## Terminal Location Numbers



FIG. 1


IG. 2
NOTE: See function codes, pages $M-4$ and $M-5$, for signal locations.

## 

0 MATTE BLACK HOUSING (Gloss black wheel with white characters; no stops.)

NOTE: Stop pins are available separately, see page M-8.

SEAL ■ロㅁロㅁ
0 UNSEALED SWITCHING CONTACTS.
1 SEALED SWITCHING CONTACTS. (Sealing is by means of an o-ring rotary seal and a cured-in-place elastomer gasket. Switching contact area is protected from moisture, oil, and airborne contaminants.)
2 DUST LENS. (Protects the character face of the wheel from abrasion and dirt).
3 SEALED SWITCHING CONTACTS AND DUST LENS
Dust Lens

## 3 Series

Thumbwheel Switches
AVAILABLE HARDWARE


## AVAILABLE HARDWARE

## PART NO.

605A00000 PC
605A02000 SOLDER LUG
Fits 0 \& 1 terminations only.

Screws for field assembly of thumbwheel switches (2 screws needed per assembly +403500000 nuts)

| $*$ <br> SCREW PART NUMBER <br> (0-80 UNF THD. SIZE) | NUMBER OF SECTIONS IN ASSEMBLY |  |
| :---: | :---: | :---: |
|  | FRONT MOUNTING | REAR MOUNTING |
| 412701000 | $1-2$ | $1-2$ |
| 412702000 | $5-4$ | 3 |


| Nut | Nut driver (For 403500000 nut) |
| :---: | :---: |
| Two nuts required per assembly and screws. |  |
| PART NO. | PART NO. |
| 403500000 | 406100652 |

## 3 Series <br> Thumbwheel Switches

## Configuration Form <br> gray shaded areas to be filled in by customer service.



$\qquad$ OF

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