

#### Features/Benefits

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

### Typical Applications

- 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 m  $\Omega$  typ. initial @ 2-4 V DC, 100 mA.

INSULATION RESISTANCE:  $10^9 \Omega$  min.

DIELECTRIC STRENGTH: 500 Vrms min. @ sea level between common terminal and any output.

OPERATING TEMPERATURE: -40°C to 65°C.

### 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.

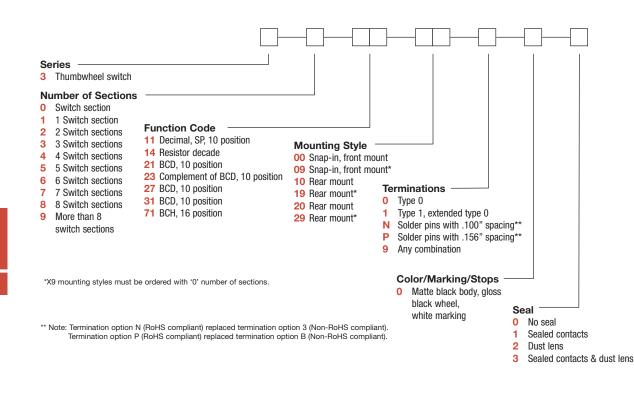
NOTE: Specifications and materials listed above are for switches with standard options For information on specific and custom switches, consult Customer Service Center

\* Note: All models listed are RoHS compliant. See Technical Data section of this catalog for RoHS compliant and compatible definitions and specifications

#### **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-9 thru N-12. For additional options not shown in catalog, consult Customer Service Center.

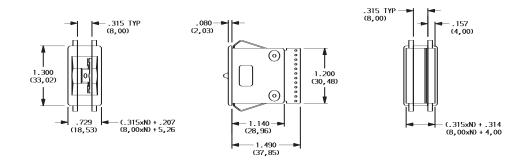
Consult factory for illumination availability.





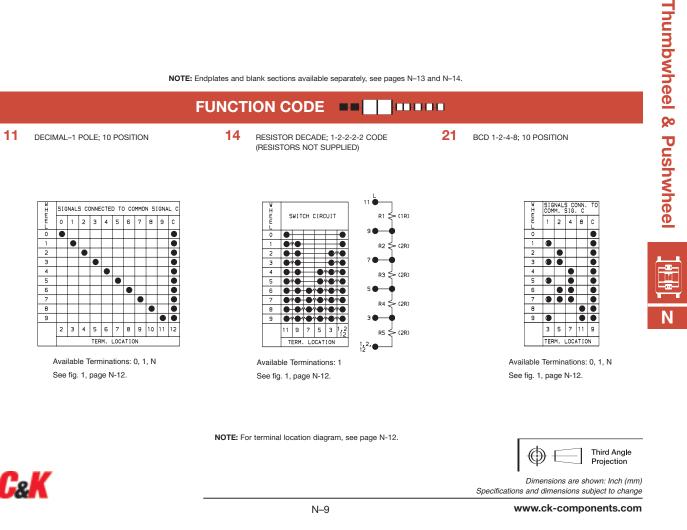
#### SERIES

3 THUMBWHEEL SWITCHES

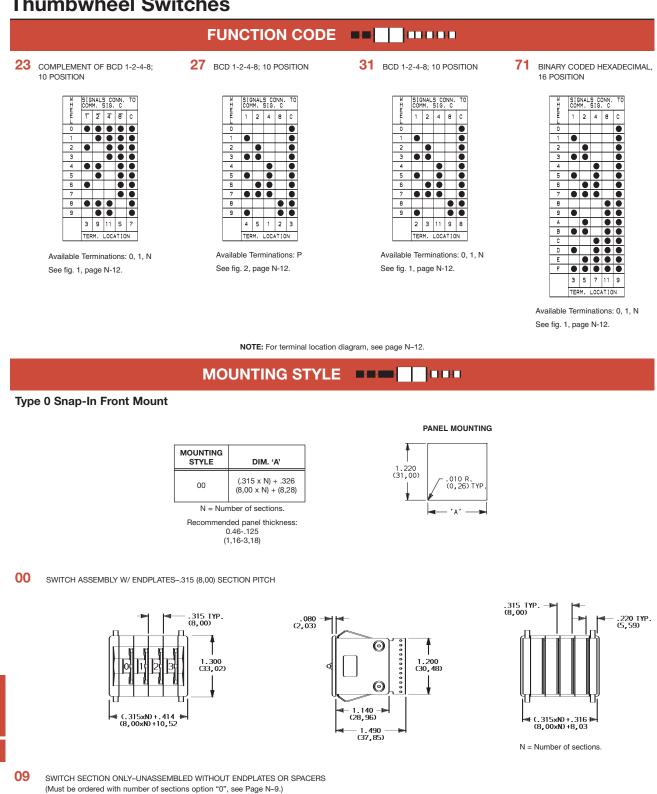


#### NUMBER OF SECTIONS

- 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 N-10 and N-11.
- 1-8 Number of switch sections in assembly, includes endplates.
- 9 More than 8 switch sections, specify on CONFIGURATION FORM, page N-15 and consult Customer Service Center.



#### NOTE: Endplates and blank sections available separately, see pages N-13 and N-14.



 $\label{eq:NOTE: Endplates, blank sections, spacers and assembly hardware available separately, see pages N-13 and N-14.$ 



Thumbwheel & Pushwheel

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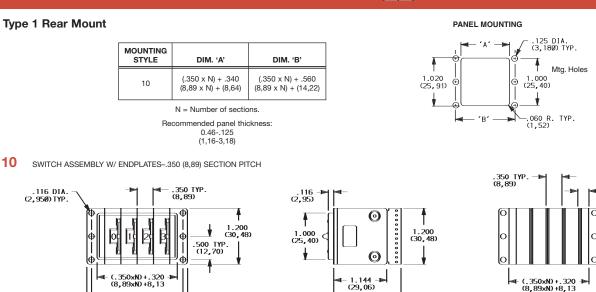
Dimensions are shown: Inch (mm) Specifications and dimensions subject to change

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Third Angle

Projection

## MOUNTING STYLE



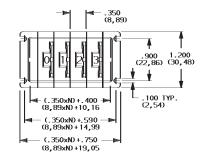
19 SWITCH SECTION ONLY-UNASSEMBLED WITHOUT ENDPLATES OR SPACERS (Must be ordered with number of sections option "0", see Page N-9.)

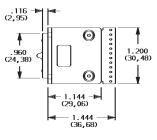
(.350xN)+.560 (8,89xN)+14,22

(.350xN)+.750 (8,89xN)+19,05

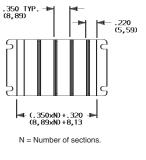
#### Type 2 Rear Mount

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





1.444



N = Number of sections

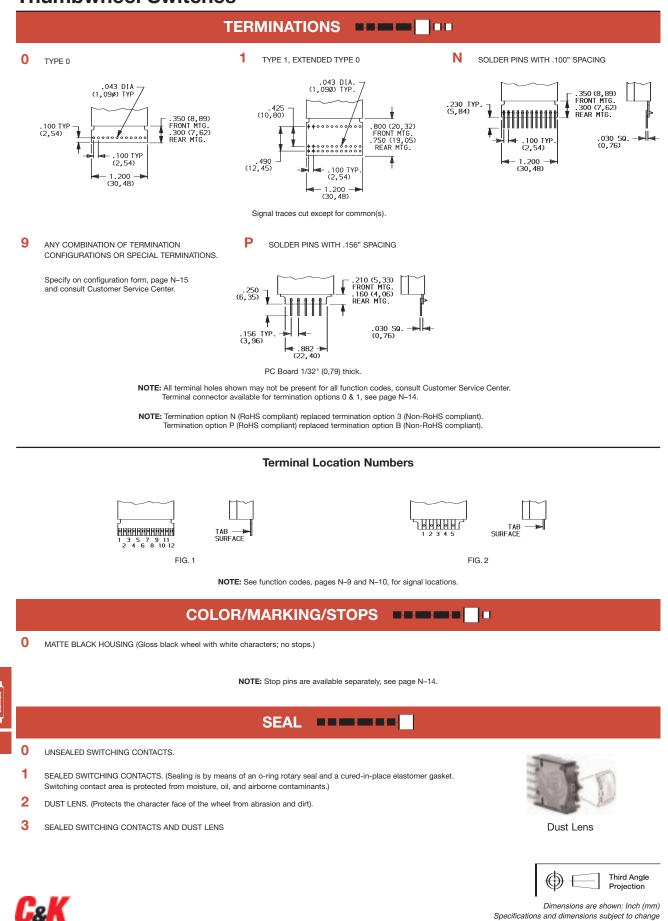
29 SWITCH SECTION ONLY-UNASSEMBLED WITHOUT ENDPLATES OR SPACERS (Must be ordered with number of sections option "0", see Page N-9.)

> NOTE: Endplates, blank sections, spacers and assembly hardware available separately, see pages N-13 and N-14.



Dimensions are shown: Inch (mm) Specifications and dimensions subject to change .220 (5,59)

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**Thumbwheel & Pushwheel** 

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	AVAILABLE HARDWARE							
Blank sections, Type 0, .315 THK.	Blank sections, Front mount, Type 0, .315 THK.	Blank sections, Rear mount, Type 1, .350 THK.						
PART NO.	PART NO.	PART NO.						
<b>413602000</b> W/RIB-BLACK	413502000 PLAIN-BLACK	400602000 W/RIB-BLACK						
400502000 W/RIB & W/OUT SPRINGS-BLACK	400702000 PLAIN & W/OUT SPRINGS-BLACK	400802000 PLAIN-BLACK						
Blank sections, Rear mount, Type 2, .350 THK.	End plates, Front mount, Type 0	End plates, Rear mount, Type 1						
4734 4733	A A A A A A A A A A A A A A A A A A A							
<b>PART NO.</b> 173402000 W/RIB-BLACK								
473302000 PLAIN-BLACK	PART NO. 413402000 BLACK Two required for complete assembly.	PART NO. 400402003 BLACK Two required for complete assembly.						
End plates, Rear mount, Type 2	Spacers, Front mount, Type 0 & 3, .078 THK. (Makes section pitch 10mm)	Stop pins						
		ι						
PART NO. 473202003 BLACK Two required for complete assembly.	PART NO. 410802000 BLACK	PART NO. 402900000						
		Dimensions are shown: Inch (mm)						
		Specifications and dimensions subject to change						

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## **AVAILABLE HARDWARE**

Terminal connector





605A02000

 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)

	NUMBER OF SECTIONS IN ASSEMBLY								
SCREW PART NUMBER	FRONT MOUNTING	REAR MOUNTING							
(0-80 UNF THD. SIZE)	MTG. STYLE – 00	MTG. STYLE - 10							
412700000	1–2	1–2							
412701000	3–4	3							
412702000	5–7	4–6							

Thumbwheel & Pushwheel



Two nuts required per assembly and screws.

PART NO. 403500000

Nut



PART NO. 406100652

Nut driver (For 403500000 nut)



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

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		3																		MBER
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ADD	RESS								_ TE	EL.# _						RE	VISIC	DN: L		
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ORIO	BINATED	BY _							_ SA	<b>\LES</b>	REP.									
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Thumbwheel & Pushwheel

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