

### Features/Benefits

Most complete product offering in the industry • Test & measurement equipment Spacers available to fit most panel cutouts

Front or rear mounting options

- - Industrial equipment
  - **Computer devices**

Typical Applications



### Specifications

CONTACT BATING: 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 Ω 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**

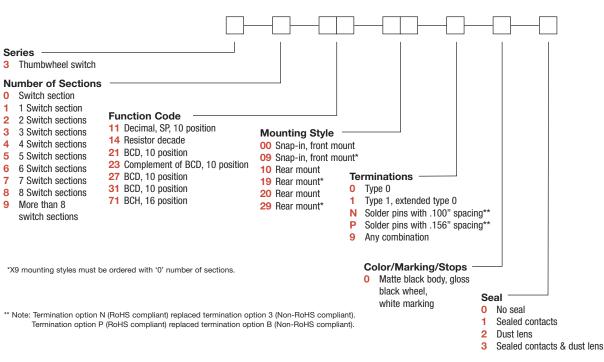
HOUSING: ABS plastic. THUMBWHEEL: ABS plastic. ROTOR CONTACTS: Precious metal on copper alloy. STATOR CONTACTS: Hard gold over nickel over copper on epoxy fiberglass.

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 M-4 thru M-10. For additional options not shown in catalog, consult Customer Service Center. Consult factory for illumination availability.

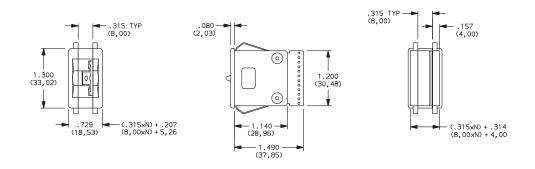




Thumbwheel & Pushwhee

SERIES 

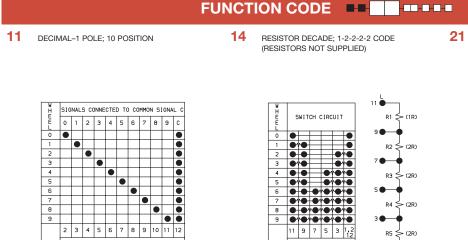
3 THUMBWHEEL SWITCHES



#### NUMBER OF SECTIONS -----

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

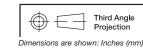
- 0 Switch section only, no assembly. Blank bodies are considered sections; endplates are not sections. Must be ordered with 09 or 19 mounting style options, see pages M-5 and M-6.
- 1-8 Number of switch sections in assembly, includes endplates.
- 9 More than 8 switch sections, specify on CONFIGURATION FORM, page M-10 and consult Customer Service Center.



SIGNALS CONN. COMM. SIG. C 2 4 8 0 . ..... 1 2 • ۲ 3 . • 4 C 5 6 ۲ • 7 8 9 3 5 7 11 9 TERM. LOCATION

BCD 1-2-4-8; 10 POSITION

Available Terminations: 0, 1, N See fig. 1, page M-7.



Specifications and dimensions subject to change



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

TERM. LOCATION

Available Terminations: 1

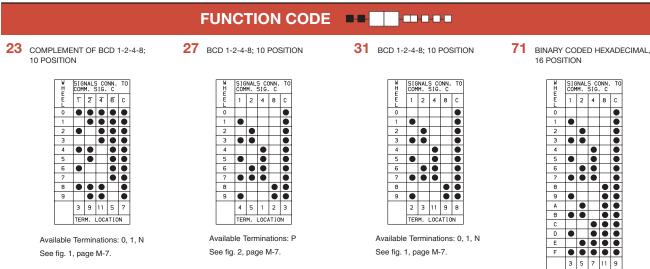
See fig. 1, page M-7.



TERM. LOCATIO

Available Terminations: 0, 1, N

See fig. 1, page M-7.



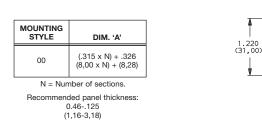
Available Terminations: 0, 1, N See fig. 1, page M-7.

TERM. LOCATION

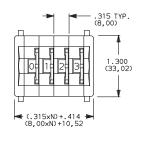
NOTE: For terminal location diagram, see page M-7.

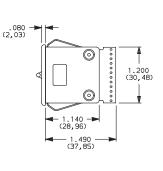
### MOUNTING STYLE

Type 0 Snap-In Front Mount



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



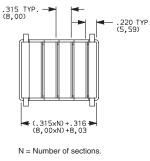


PANEL MOUNTING

.010 R. (0,26) TYP

'A'

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

NOTE: Endplates, blank sections, spacers and assembly hardware available separately, see pages M–8 and M–9.



Specifications and dimensions subject to change

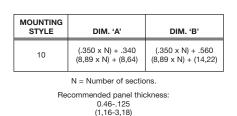
1

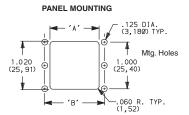
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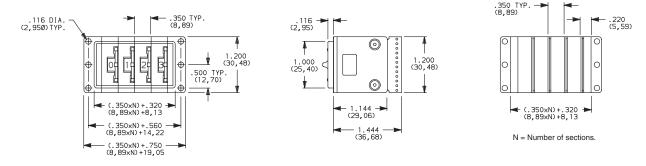
### MOUNTING STYLE

#### Type 1 Rear Mount





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.)

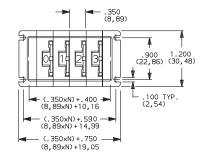
#### Type 2 Rear Mount

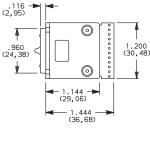
Thumbwheel & Pushwheel

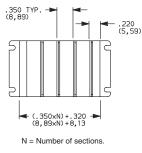
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20 SWITCH ASSEMBLY W/ ENDPLATES-.350 (8,89) SECTION PITCH







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

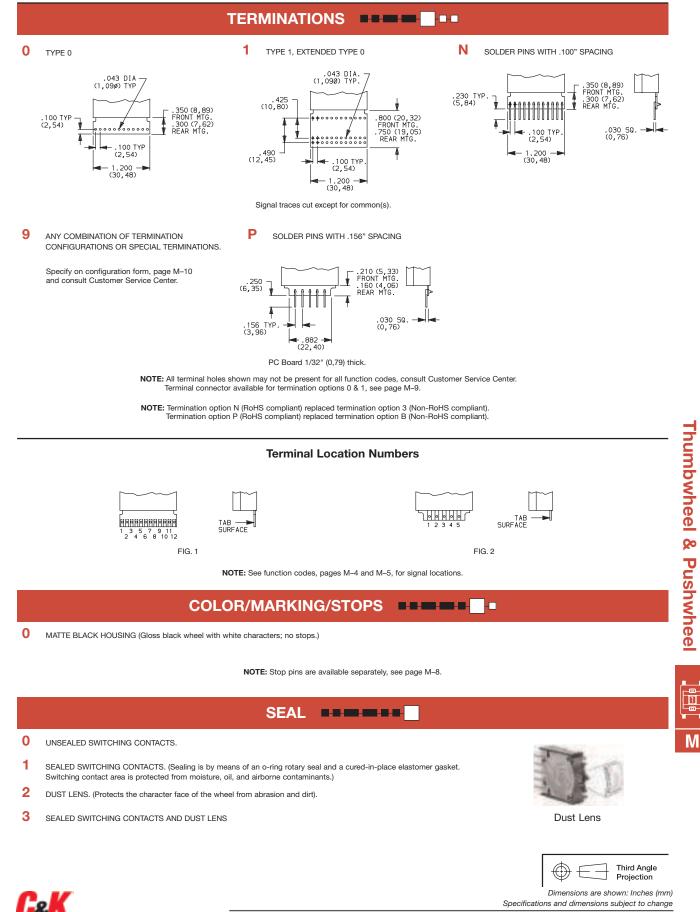
NOTE: Endplates, blank sections, spacers and assembly hardware available separately, see pages M–8 and M–9.



Specifications and dimensions subject to change



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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.					
		4006 H08					
PART NO. 413602000 W/RIB-BLACK	PART NO. 413502000 PLAIN-BLACK	PART NO. 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	STATES						
PART NO. 473402000 W/RIB-BLACK							
473302000 PLAIN-BLACK	PART NO.           413402000         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					
		L					
PART NO. 473202003 BLACK Two required for complete assembly		PART NO. 402900000					
CaK	I	Dimensions are shown: Inches (n Specifications and dimensions subject to char					
	 M–8	www.ck-components.co					

Thumbwheel & Pushwheel

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## **AVAILABLE HARDWARE**

Terminal connector





 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							

Nut



Two nuts required per assembly and screws.

PART NO. 403500000 Nut driver (For 403500000 nut)



PART NO. 406100652



C&K

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

Configuration Form							C&K P									
CATALOG PART NO.						C&K PART N						IUMBER				
3										-					C&K PART NUMBER	
COMPANY NAME												CUS PRIN		 R		
ADDRESS													ISION:			
CUSTOMER CONTACT					DA	TE _						DET	AILS:			_
ORIGINATED BY																
SECTIONS	NO. OF SEC.	C	OLO	R/MA IL	ODE RKIN LUM	G/S <sup>®</sup> NAT	TOP	S/SE	EAL	_	DES	CRIBE	IN APF	PROPR	IATE RO	WC
	1	3 –				-										
	2	3 –			]	-										
	3	3 –			]	-					]					
	4	3 –				-					]					
<b>5</b>	5	3 –				-					]					-
	6	3 –				-					]					
	7	3 –				-										
	8	3 –				-										
	9	3 –				-					]					
	10	3 –				-										
	11	3 –				-										
QUALITY C	ONT	ROL IN	ISTR	UCTI	ONS				PF	ODU			ROVAL	- [	DATE	
									Q.C. APPROVAL			DATE				
									RE	IV.	IN	IITIAL	S		DATE	
FOR SWITCHES WITH MORE THAN 11 SEC SPECIAL INSTRUCTIONS						TS.										
L														SHEET _	OF	



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