

#### 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.

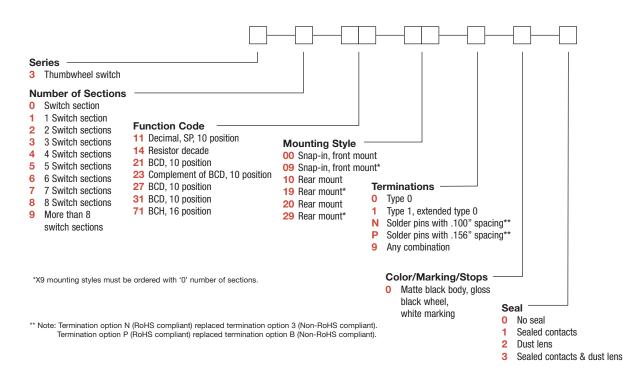
NOTE: Specifications and materials listed above are for switches with standard options For information on specific and custom switches, consult Customer Service Center

\* 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.

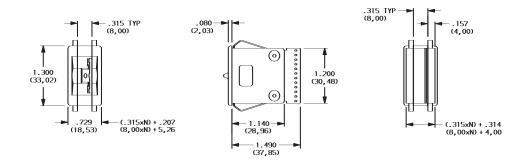




C.e.

#### SERIES

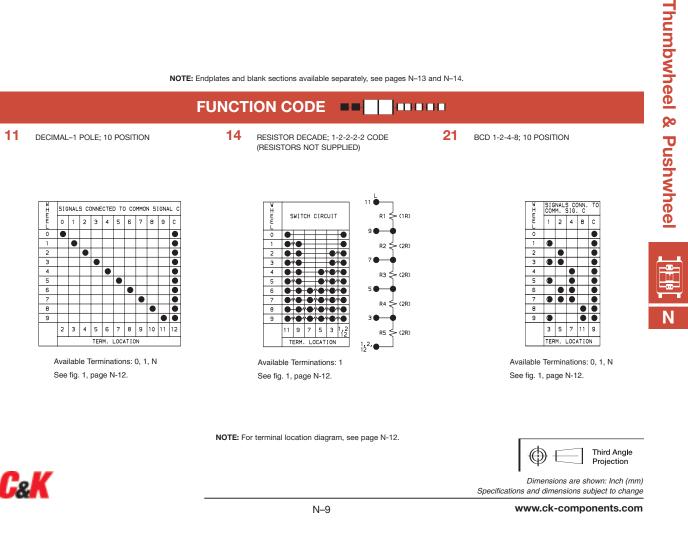
3 THUMBWHEEL SWITCHES

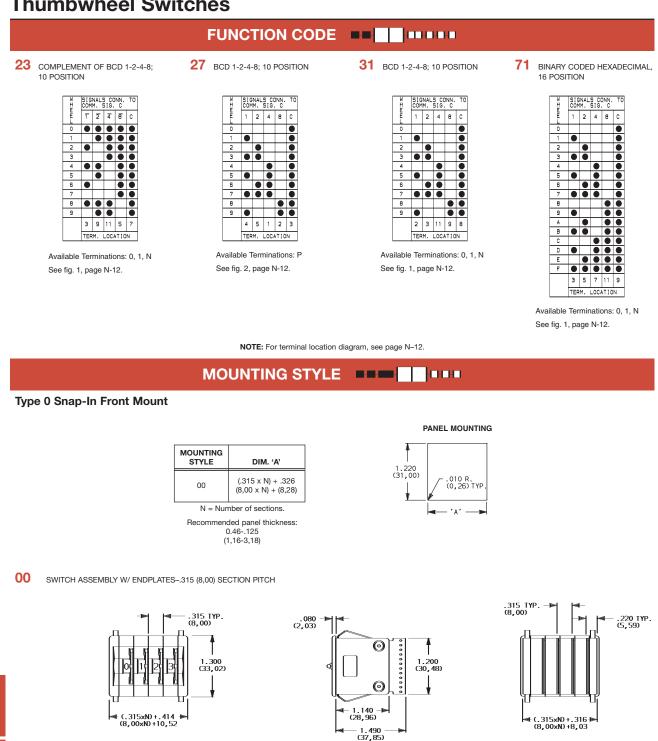


#### NUMBER OF SECTIONS

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





N = Number of sections.

09 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.



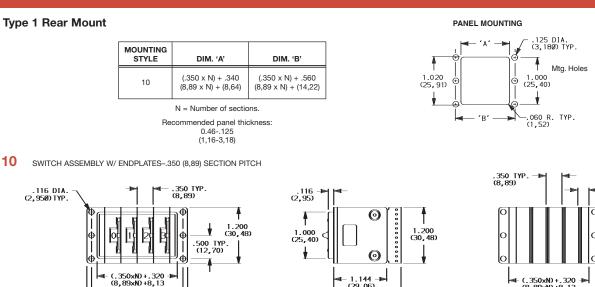
 $\bigoplus$ Projection Dimensions are shown: Inch (mm) Specifications and dimensions subject to change

Thumbwheel & Pushwheel

Ν

Third Angle

## MOUNTING STYLE



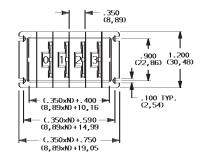
19 SWITCH SECTION ONLY-UNASSEMBLED WITHOUT ENDPLATES OR SPACERS (Must be ordered with number of sections option "0", see Page N-9.)

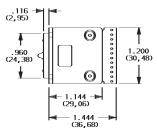
(.350xN)+.560 (8,89xN)+14,22

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

#### Type 2 Rear Mount

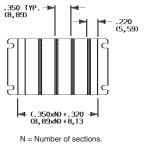
20 SWITCH ASSEMBLY W/ ENDPLATES-.350 (8,89) SECTION PITCH





1.144 -⊫ (29,06)

1.444



(.350xN)+.320 (8,89xN)+8,13

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.

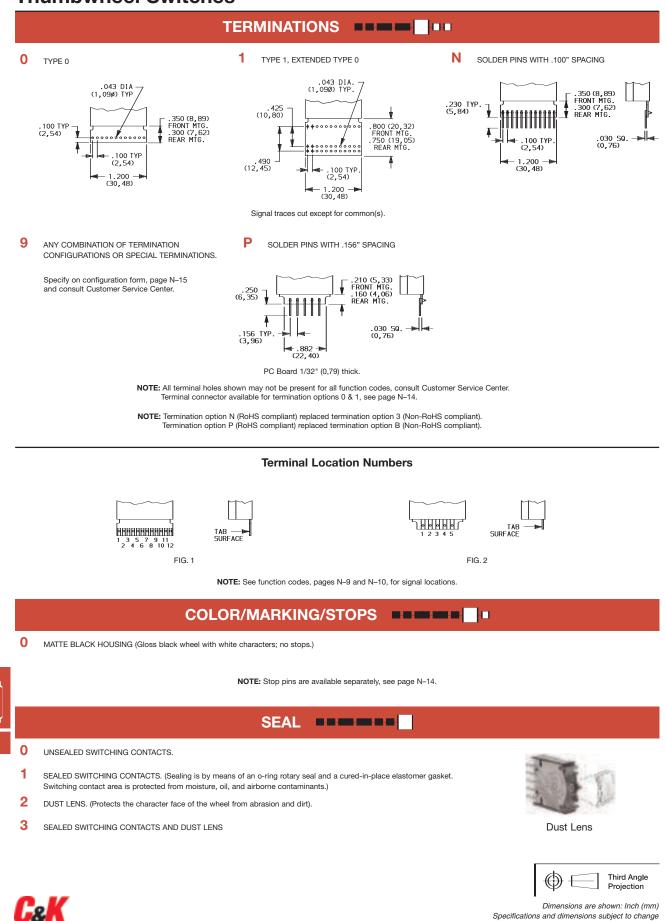


Dimensions are shown: Inch (mm) Specifications and dimensions subject to change



.220 (5,59)

CeK



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**Thumbwheel & Pushwheel** 

N

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		Iumbwheel Switches					
	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 4008					
PART NO.	PART NO.	PART NO.					
413602000 W/RIB-BLACK 400502000 W/RIB & W/OUT SPRINGS-BLACK	413502000 PLAIN-BLACK	400602000 W/RIB-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						
<b>PART NO.</b> <b>473402000</b> W/RIB-BLACK							
473302000 PLAIN-BLACK	PART NO. 413402000 BLACK Two required for	PART NO. 400402003 BLACK Two required for					
	complete assembly.	complete assembly.					
End plates, Rear mount, Type 2	Spacers, Front mount, Type 0 & 3, .078 THK. (Makes section pitch 10mm)	PART NO. 400402003 BLACK Two required for complete assembly. Stop pins					
		L					
PART NO. 473202003 BLACK Two required for complete assembly.	PART NO. 410802000 BLACK	PART NO. 402900000					
-	I	Dimensions are shown: Inch (mm)					
-01	N 10	Specifications and dimensions subject to change					

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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					

Thumbwheel & Pushwheel

Nut



Two nuts required per assembly and screws.

PART NO. 403500000



PART NO. 406100652

Nut driver (For 403500000 nut)



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

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				<b>DAREAS TO E</b>					CE.			C&K PART NUMBER	
CATALOG PART N	0.							C&K PA	RT NUMB	ER			
3								_				MBER	
COMPANY NAME										CUSTO PRINT	MER	_	
ADDRESS										REVISI	ON:		
CUSTOMER CONTACT				DA	TE _					DETAIL	S:		
ORIGINATED BY				SA	LES F	REP.							
THUMBWHEEL SECTIONS	NO. OF SEC.	CC	DLOR	N CODE /MARKIN ILLUMI CODES IN APP BLANK SECT	IG/ST	OPS/S ON	SEAL	-	DES	CRIBE IN	APPROPI	RIATE ROV	V
	1	3 –			-								
	2	3 –			-								
	3	3 –			-								
	4	3 –			-								
5	5	3 –			-								hun
<b>O</b>	6	3 –			-								- Thumbwheel
	7	3 –			-								hee
	8	3 –			-								<u>p</u>
	9	3 –			-								Pu
	10	3 –			-								Pushwł
	11	3 –			-								hee
QUALITY	CONT	ROL IN	STRU	CTIONS			PF	RODU	CTION	I APPRO	VAL	DATE	
							Q.	C. API	PROV	AL		DATE	
							RE	EV.	IN	ITIALS		DATE	Ν
FOR SWITCHES WITH MORE THAN 11	SECTIONS	, CONTINUE	ON ADDI	ITIONAL SHEE	TS.								
SPECIAL INSTRUCTION	IS OR	SPECIFI	CATIO	ONS:									



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