#### 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 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.

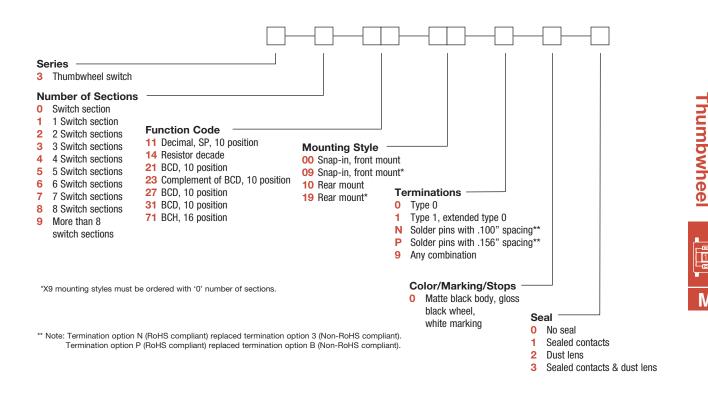
ROTOR CONTACTS: Precious metal on copper alloy. STATOR CONTACTS: Hard gold over nickel over copper on epoxy fiberglass.

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

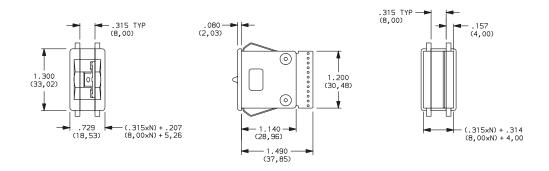




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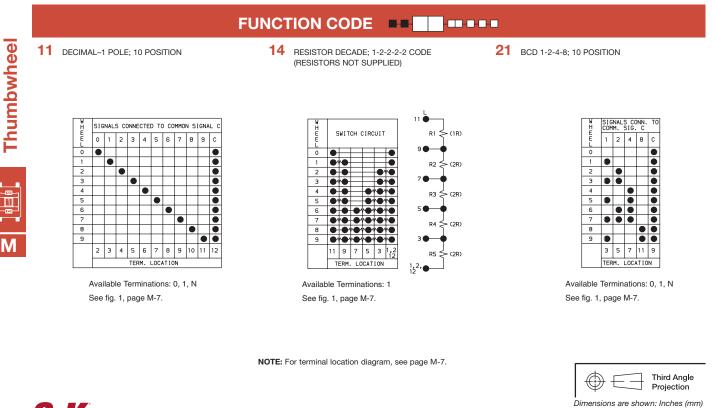
#### SERIES -----

**3** THUMBWHEEL SWITCHES



## NUMBER OF SECTIONS

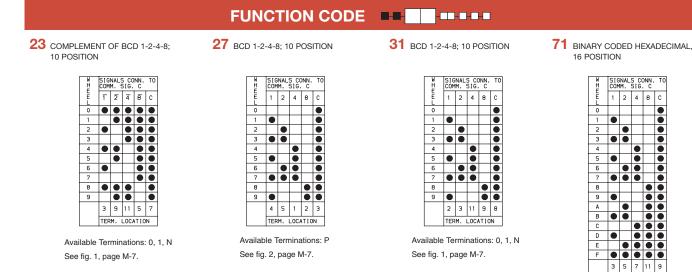
- 0 Switch section only, no assembly. Blank bodies are considered sections; endplates are not sections. Must be ordered with 09 or 19 mounting style options, see pages M-5 and M-6.
- 1-8 Number of switch sections in assembly, includes endplates.
- 9 More than 8 switch sections, specify on CONFIGURATION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



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

6 Mar 20

Specifications and dimensions subject to change



TERM. LOCATION Available Terminations: 0, 1, N

See fig. 1, page M-7.

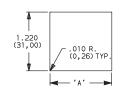
NOTE: For terminal location diagram, see page M-7.

#### MOUNTING STYLE

Type 0 Snap-In Front Mount

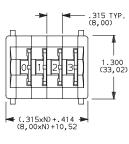
MOUNTING STYLE	DIM. 'A'
00	(.315 x N) + .326 (8,00 x N) + (8,28)
N = Nur	nber of sections.
-	

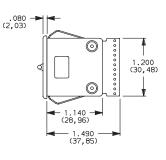
Recommended panel thickness: 0.46-.125 (1,16-3,18)

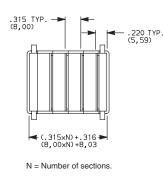


PANEL MOUNTING

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

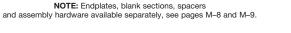






Thumbwhee

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





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

6 Mar 20

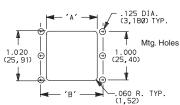
M-5

# MOUNTING STYLE

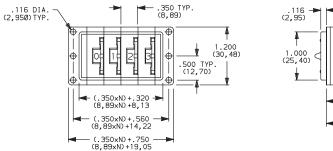
#### Type 1 Rear Mount

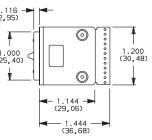
MOUNTING STYLE	DIM. 'A'	DIM. 'B'
10	(.350 x N) + .340 (8,89 x N) + (8,64)	(.350 x N) + .560 (8,89 x N) + (14,22)

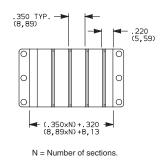
N = Number of sections. Recommended panel thickness: 0.46-.125 (1,16-3,18)



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



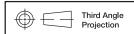




**19** SWITCH SECTION ONLY–UNASSEMBLED WITHOUT ENDPLATES OR SPACERS (Must be ordered with number of sections option "0", see Page M–4.)

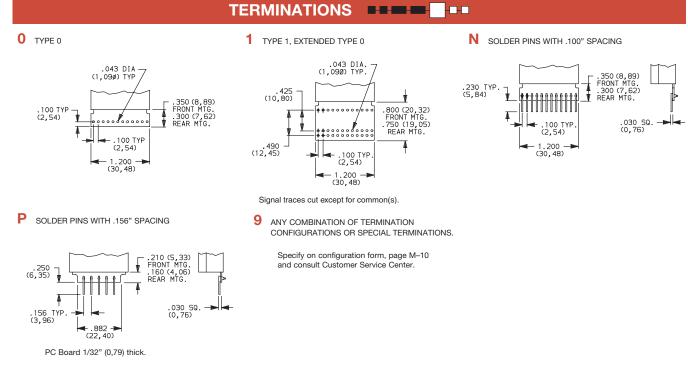
 ${\bf NOTE:}$  Endplates, blank sections, spacers and assembly hardware available separately, see pages M–8 and M–9.





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

PANEL MOUNTING



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**



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

# COLOR/MARKING/STOPS

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

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

SEAL DESCRIPTION OF CONTACTS.
UNSEALED 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.)
DUST LENS. (Protects the character face of the wheel from abrasion and dirt).
SEALED SWITCHING CONTACTS AND DUST LENS



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

Third Angle Projection Thumbwhee

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6 Mar 20 Specifications and dimensions subject to change										
PAT ND. 1300000     WHILE BLACK     PAT ND. 1300000     PAT ND. 1300000     PAT ND. 1000000     PAT										
41300200 WRB-BLACK       41300200 PLAN-BLACK       40000200 WRB-BLACK       40000200 WRB-BLACK         4000000 WRB-BLACK       4000000 PLAN & WOUT SPRINGS-BLACK       4000000 PLAN BLACK       4000000 PLAN BLACK         Bask sections, Rear mount, Type 2,       End plates, Front mount, Type 0       End plates, Rear mount, Type 1       Image: Spring transmission of the plates, Rear mount, Type 1         FMT NO, 1740000 PLAN-BLACK       FMT NO, 1740000 PLAN-BLACK       FMT NO, 1740000 PLAN-BLACK       FMT NO, 1740000 PLAN-BLACK         FMT NO, 1740000 PLAN-BLACK       FMT NO, 1740000 PLAN-BLACK       FMT NO, 1740000 PLAN-BLACK       FMT NO, 1740000 PLAN-BLACK         FMT NO, 1740000 PLAN-BLACK       FMT NO, 1740000 PLAN-BLACK       FMT NO, 1740000 PLAN-BLACK       FMT NO, 1740000 PLAN-BLACK         FMT NO, 1740000 PLAN-BLACK       FMT NO, 1740000 PLAN-BLACK       FMT NO, 1740000 PLAN-BLACK       FMT NO, 100000 PLAN-BLACK         FMT NO, 1740000 PLAN-BLACK       FMT NO, 1740000 PLAN-BLACK       FMT NO, 1740000 PLAN-BLACK       FMT NO, 100000 PLAN-BLACK         FMT NO, 1740000 PLAN-BLACK       FMT NO, 1740000 PLAN-BLACK       FMT NO, 1740000 PLAN-BLACK       FMT NO, 1740000 PLAN-BLACK         FMT NO, 1740000 PLAN-BLACK       FMT NO, 1740000 PLAN-BLACK       FMT NO, 1740000 PLAN-BLACK       FMT NO, 1740000 PLAN-BLACK         FMT NO, 1740000 PLAN-BLACK       FMT NO, 1740000 PLAN-BLACK       FMT NO, 1740000 PLAN-BLACK       FMT NO, 1740000 PLA			4006 4008							
400702000     PLAN & WOUT SPRINGS ELLCK     400802000     PLAN ELACK       Black sections, Rear mount, Type 2.     End plates, Front mount, Type 0     End plates, Rear mount, Type 1       Image: Argent NO.     4733     4733       473402000     WRIB-BLACK     PART NO.       473402000     PLAN ELACK     To regulate for complete assembly.       End plates, Rear mount, Type 2     Spacers, Front mount, Type 0 & 3. 0.78 THK.       Makes section plich form     Stop place       Image: PART NO.     PART NO.       47302000     BLACK       Tryp regulate for complete assembly.       Image: PART NO.       47302000     BLACK       Tryp regulate for complete assembly.       Image: PART NO.       47302000     BLACK       Tryp regulate for complete assembly.       Image: PART NO.       47080200     BLACK										
SS THK. I A CANARA AND A CANARA	400502000 W/RIB & W/OUT SPRINGS-BLACK	400702000 PLAIN & W/OUT SPRINGS-BLACK	400802000 PLAIN-BLACK							
PART NO. 473402000 W/RIB-BLACK     PART NO. 13402200 BLACK     PART NO. 13402200 BLACK     PART NO. 00040203 BLACK     PART NO. 00040203 BLACK     PART NO. 00040203 BLACK     Tor required for 00040203 BLACK     Tor required for 00040203 BLACK     Tor required for 00040203 BLACK     Tor required for 00040203 BLACK     Stop pins       End plates, Rear mount, Type 2     Spacers, Front mount, Type 0 & 3, 078 THK. Makes section pitch 10mm     Stop pins     Image: Complete assembly     Image: Complete assembly <td>Blank sections, Rear mount, Type 2, .350 THK.</td> <td>End plates, Front mount, Type 0</td> <td>End plates, Rear mount, Type 1</td>	Blank sections, Rear mount, Type 2, .350 THK.	End plates, Front mount, Type 0	End plates, Rear mount, Type 1							
Makes section pitch 10mm) (Makes section pitch 1	PART NO. 473402000 W/RIB-BLACK	413402000 BLACK Two required for	400402003 BLACK Two required for							
473202003       BLACK       Two required for complete assembly.       410802000       BLACK       402900000         Control of Mar 20       6 Mar 20       6 Mar 20       Dimensions are shown: Inches (mm, Specifications and dimensions subject to change and the shown: Specifications and dimensions subject to change and the shown are shown: Inches (mm, Specifications and dimensions subject to change and the shown are	End plates, Rear mount, Type 2	Spacers, Front mount, Type 0 & 3, .078 THK. (Makes section pitch 10mm)	Stop pins							
Dimensions are shown: Inches (mm, Specifications and dimensions subject to change)	473202003 BLACK Two required for									
6 Mar 20 Specifications and dimensions subject to change	ouripiete deseriory.									
M-8 www.ckswitches.com	6 Mar 20		Dimensions are shown: Inches (mm) Specifications and dimensions subject to change www.ckswitches.com							

Thumbwheel

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## **AVAILABLE HARDWARE**

Terminal connector



605A00000



 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



406100652



								<b>gu</b> EAS TO B												C&K F
	(	CATALO	G PART I	NO.	Gh	AT SHA		EAS TO E			031			PART N	IUMBE	R				
		3										[								טועוסבה
COMP	ANY NA	AME														CUS		/IER		
ADDR	ESS							TE	L.# _						_	REV		N:		
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				9	3 –				-					1						
				10	3 –				-					1						
				11	3 –			]	-					1						
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Dimensions are shown: Inches (mm)

Specifications and dimensions subject to change

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 620FB038NF08
 620HA038NF13
 620HA038NF25
 620HA042XM13
 620HB049NF17
 620HS011NF21
 620HS038NF11

 620HS038Z121
 620HS042XM19
 620HS042XM25
 620HS042XW13
 620HS048B17
 620MS064NF09
 620MS064NF12
 620MS065M12

 620MS065Z107
 620MS065ZNU06
 630J041M06H
 630J041M20H
 637S010NF0212H
 640830-000
 659943-000
 66241-10A
 CW0597-000

 CW0598-000
 CW0948-000
 CY0122-000
 M85049/41-6A W/B
 M85049/42-12DS
 M85049/47N8
 M85049/47W18
 M85049/51-1-14S

 M85049/51-1-8W
 M85049/51S16S
 M85049/60-1N16
 M85049/60-2G12W
 M85049/69-11N
 CZ3661-000
 D02922-000
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