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 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.

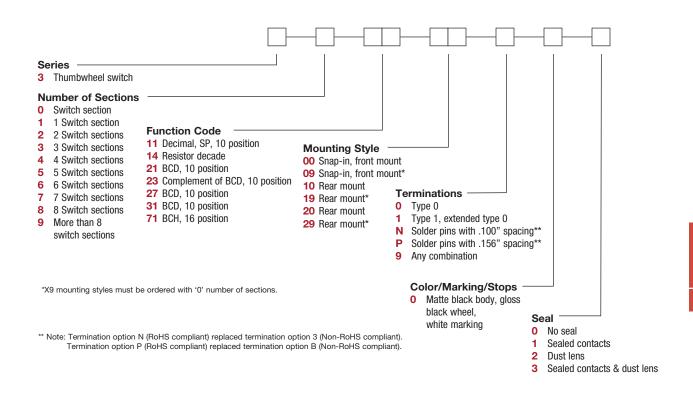
ROTOR CONTACTS: Precious metal on copper alloy. STATOR CONTACTS: Hard gold over nickel over copper on epoxy fiberglass.

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.

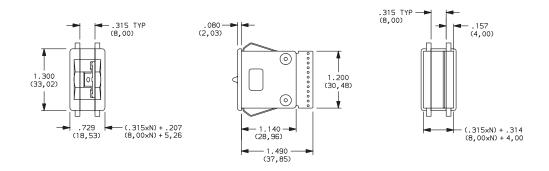


www.ckswitches.com

Thumbwhee

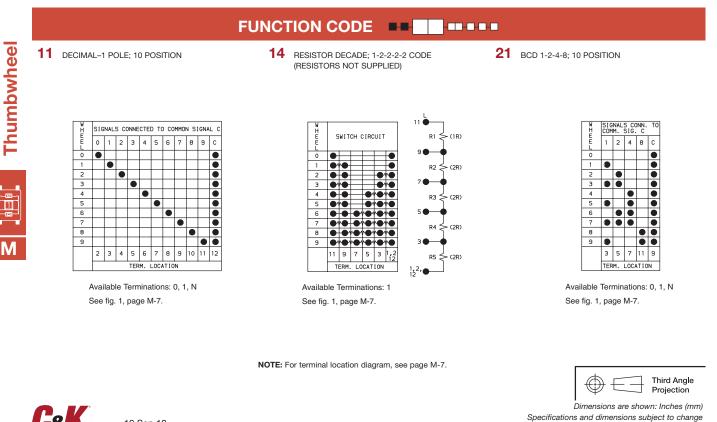
SERIES

3 THUMBWHEEL SWITCHES



NUMBER OF SECTIONS

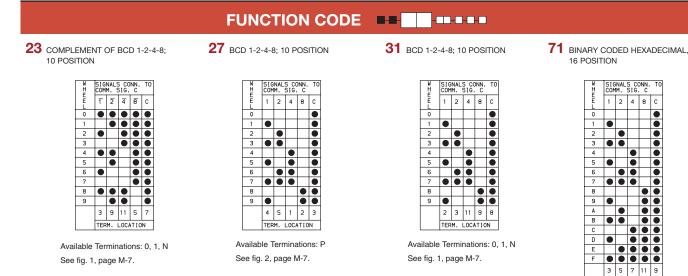
- Switch section only, no assembly. Blank bodies are considered sections; endplates are not sections. Must be ordered with 09 or 19 mounting style options, see pages M–5 and M–6.
- 1-8 Number of switch sections in assembly, includes endplates.
- 9 More than 8 switch sections, specify on CONFIGURATION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



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

12 Sep 18

www.ckswitches.com



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

TERM. LOCATION

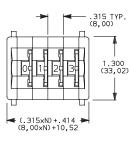
NOTE: For terminal location diagram, see page M-7.

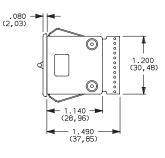
MOUNTING STYLE

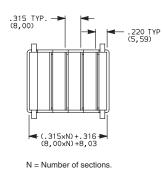
Type 0 Snap-In Front Mount



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

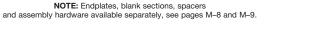






Thumbwheel

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



12 Sep 18

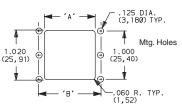
www.ckswitches.com

MOUNTING STYLE

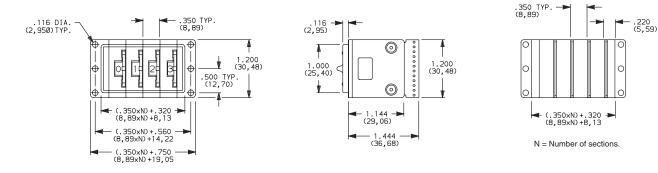
Type 1 Rear Mount

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 section	ons.

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



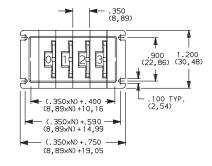
10 SWITCH ASSEMBLY W/ ENDPLATES-.350 (8,89) SECTION PITCH

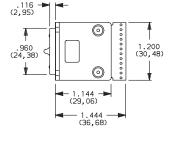


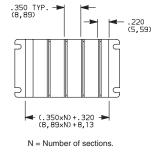
19 SWITCH SECTION ONLY–UNASSEMBLED WITHOUT ENDPLATES OR SPACERS (Must be ordered with number of sections option "0", see Page M–4.)

Type 2 Rear Mount

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







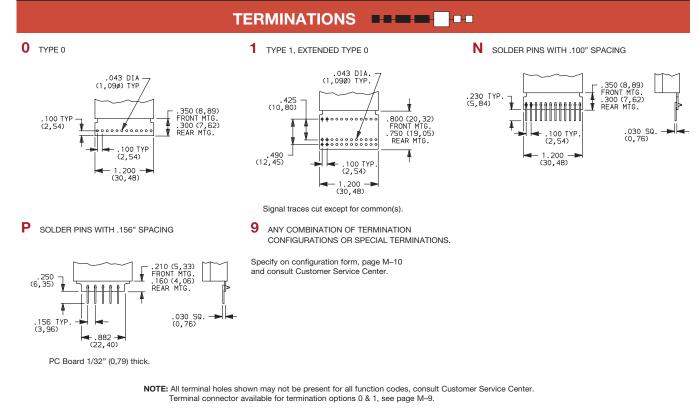
29 SWITCH SECTION ONLY–UNASSEMBLED WITHOUT ENDPLATES OR SPACERS (Must be ordered with number of sections option "0", see Page M–4.)

-2

 $\ensuremath{\text{NOTE:}}$ 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



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

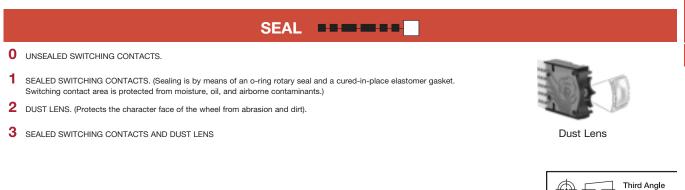


NOTE: See function codes, pages M-4 and M-5, for signal locations.

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.



Thumbwheel

Μ

C&K

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

Projection

	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. 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										
473402000 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								
		L								
PART NO. 473202003 BLACK Two required for complete assembly.	PART NO. 410802000 BLACK	PART NO. 402900000								
CeK 12 Sep 18		Dimensions are shown: Inches (mm) Specifications and dimensions subject to change								

Thumbwheel

Μ

L&**A**

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								

Thumbwheel

M

Two nuts required per assembly and screws.

406100652

Nut driver (For 403500000 nut)

PART NO. 403500000

Nut



								gu EAS TO B												C&K F
	(CATALO	G PART I	NO.	Gh			EAS TO E			031			PART N	IUMBE	R				
		3										[טועוסבה
COMP	ANY NA	AME														CUS		/IER		
ADDR	ESS							TE	L.# _						_	REV		N:		
CUSTO	OMER (FACT					DA	TE _							DET	AILS	3:		_
ORIGI	NATED	BY _						SA	LES	REP.										
Т	HUMB SECT			NO. OF SEC.	С	OLO	R/MA IL	ODE RKIN LUM S IN APP	IG/S ⁻ INAT	TOPS ION	/SE/	۹L -	-	D	ESC	RIBE	IN A	PPRC)PRIAT	Ē
				1	3 –				-]						
	N			2	3 –				-]						
	ω			3	3 –				-					1						
	4			4	3 –]]	-]						
	<u></u> 5			5	3 –				-											
	6			6	3 –															
				7	3 –				-]						
	0			8	3 –				-					1						
	9			9	3 –				-					1						
	0			10	3 –				-					1						
				11	3 –]	-					1						
	11	QL				ISTF	UCT	IONS				PR	DDU	JCTI	ON	APP	ROV	AL	DA	TE
												Q.C	. AP	PR	OV A	AL.			DA	ГЕ
												RE	V.		IN	TIAL	S		DA	TE
	TCHES WITH								TS.											_
SPEC	IAL INS	TRU		NS OR :	SPECIF	-ICA1	ION	5:												
																		SH	EET	0

Dimensions are shown: Inches (mm)

Specifications and dimensions subject to change

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

C&K Switches:

301119000 307119000 302119000 321400100 412701000 400402003 413402000 413502000 403500000
<u>400802000</u> <u>302319000</u> <u>412702000</u> <u>307109000</u> <u>301109000</u> <u>302109000</u> <u>317100000</u> <u>3P0230102</u> <u>402900000</u> <u>3P-3-</u>
<u>23-3-1-0-2</u> <u>322100003</u> <u>301109100</u> <u>301119100</u> <u>301119103</u> <u>301129103</u> <u>301409100</u> <u>301409103</u> <u>301419100</u>
<u>302309000</u> <u>302309001</u> <u>302309002</u> <u>302309003</u> <u>302309100</u> <u>302309101</u> <u>302309102</u> <u>302309103</u> <u>302319003</u>
<u>302319100</u> <u>302329000</u> <u>302329001</u> <u>302329002</u> <u>302329100</u> <u>303109000</u> <u>303109001</u> <u>303109002</u> <u>303109003</u>
$\underline{303109100} \ \underline{303109102} \ \underline{303109103} \ \underline{303119000} \ \underline{303119001} \ \underline{303119002} \ \underline{303119003} \ \underline{303119100} \ \underline{303119100} \ \underline{303119103}$
<u>303129000</u> <u>307109001</u> <u>307109002</u> <u>307109003</u> <u>307109100</u> <u>307119001</u> <u>307119002</u> <u>307119003</u> <u>307119100</u>
<u>307119103</u> <u>307129000</u> <u>311100000</u> <u>311100001</u> <u>311100003</u> <u>311100100</u> <u>311110000</u> <u>311110001</u> <u>311110103</u>
$\underline{311400100} \underline{311410100} \underline{312100100} \underline{312100102} \underline{312100103} \underline{312110100} \underline{312110103} \underline{312300000} \underline{312300101}$
<u>312310000</u> <u>312310003</u> <u>313100000</u> <u>313110000</u> <u>313110003</u> <u>317100001</u> <u>317100002</u> <u>317100003</u> <u>317100100</u>
<u>317110000</u> <u>317110002</u> <u>317110003</u> <u>317110100</u> <u>321100000</u> <u>321100002</u> <u>321100003</u> <u>321110000</u> <u>321110001</u>
321110003