3 Series

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.

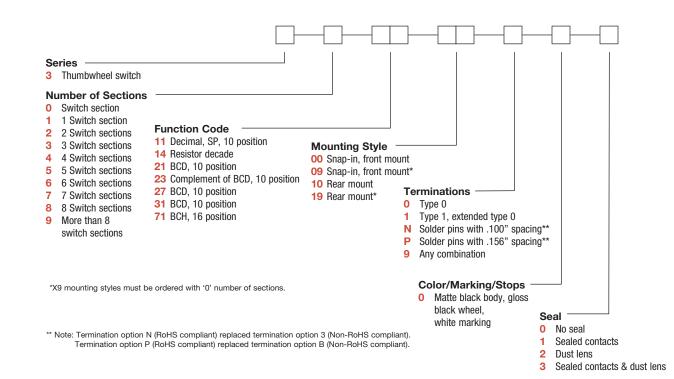
ROTOR CONTACTS: Precious metal on copper alloy. STATOR CONTACTS: Hard gold over nickel over copper on epoxy fiberglass.

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

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.





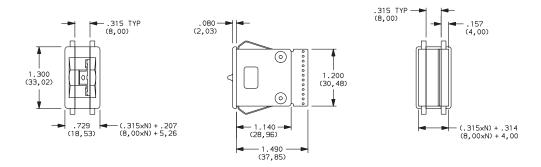
^{*} Note: All models listed are RoHS compliant. See Technical Data section of this catalog for RoHS compliant and compatible definitions and specifications.

3 Series

Thumbwheel Switches

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.

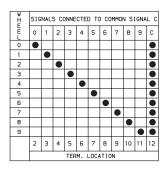
NOTE: Endplates and blank sections available separately, see pages M-13 and M-14.

FUNCTION CODE

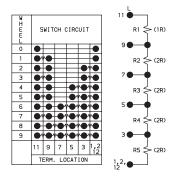
11 DECIMAL-1 POLE: 10 POSITION

RESISTOR DECADE: 1-2-2-2 CODE (RESISTORS NOT SUPPLIED)

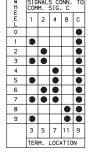
21 BCD 1-2-4-8; 10 POSITION



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

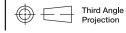


Available Terminations: 1 See fig. 1, page M-7.



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

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

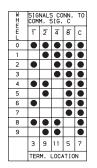




Thumbwheel

Thumbwheel Switches

23 COMPLEMENT OF BCD 1-2-4-8; 10 POSITION



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

27 BCD 1-2-4-8; 10 POSITION

Ä	SIG	NAL:	S CC SIG.	DNN. C	TO
H E E L	1	2	4	8	С
0					
1	•				
2		•			•
3	•	•			
4			•		
5	•		•		•
6		•	•		
7	•				
8				•	
9	•			•	•
	4	5	1	2	3
	TER	м.	LOCA	TIO	N

Available Terminations: P See fig. 2, page M-7. **31** BCD 1-2-4-8; 10 POSITION

W H E E L	SIG	NAL M.	S CC SIG.	DNN. C	TO
Ē	1	2	4	8	С
0					•
1	•				•
2		•			•
3	•	•			•
4			•		•
5	•		•		•
6		•	•		•
7	•	•	•		•
8					•
9	•			•	•
	2	3	11	9	8
	TER	м.	LOCA	TIO	N

Available Terminations: 0, 1, N See fig. 1, page M-7. 71 BINARY CODED HEXADECIMAL, 16 POSITION

3 Series

WHEEL	SIG	NAL M.	S CC	ONN.	TO
EL	1	2	4	8	С
0					•
1					•
2		•			•
3	•	•			
4					ŏ
5	•		•		•
6		•	•		
7		•			ă
8				•	Ŏ
9	•			•	•
Α		•		•	
В		•		•	•
С			•	•	
D	•		•	•	ě
E		•	•	•	•
F	•	•	•	•	•
	3	5	7	11	9
	TER	М. І	LOCA	TIO	N

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

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

FUNCTION CODE ----

MOUNTING STYLE

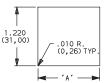
Type 0 Snap-In Front Mount

MOUNTING STYLE	DIM. 'A'
00	(.315 x N) + .326 (8,00 x N) + (8,28)

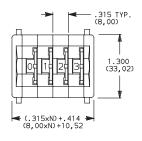
N = Number of sections.

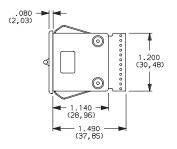
Recommended panel thickness: 0.46-.125 (1,16-3,18)

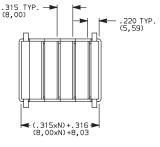
PANEL MOUNTING



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







N = Number of sections.

99 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.





3 Series **Thumbwheel Switches**

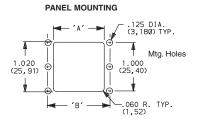
MOUNTING STYLE

Type 1 Rear Mount

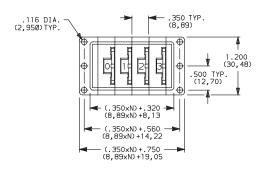
MOUNTING STYLE	DIM. 'A'	DIM. 'B'
10	(.350 x N) + .340 (8,89 x N) + (8,64)	(.350 x N) + .560 (8,89 x N) + (14,22)

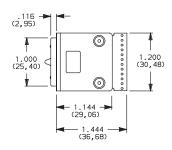
N = Number of sections.

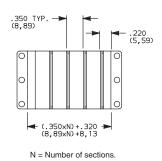
Recommended panel thickness: 0.46-.125 (1,16-3,18)



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







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

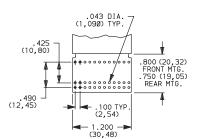
> NOTE: Endplates, blank sections, spacers and assembly hardware available separately, see pages M-8 and M-9.



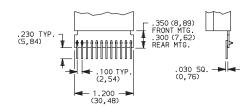
O TYPE 0

.043 DIA (1,09ø) TYP 1.200 -

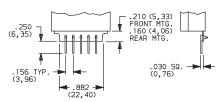
1 TYPE 1, EXTENDED TYPE 0



N SOLDER PINS WITH .100" SPACING



SOLDER PINS WITH .156" SPACING



ANY COMBINATION OF TERMINATION CONFIGURATIONS OR SPECIAL TERMINATIONS.

Signal traces cut except for common(s).

Specify on configuration form, page M-10 and consult Customer Service Center.

PC Board 1/32" (0,79) thick

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







FIG. 2



FIG. 1

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

COLOR/MARKING/STOPS

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

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

SEAL

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



Dust Lens



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



6 Mar 20

Thumbwheel Switches

AVAILABLE HARDWARE

Blank sections, Type 0,



Blank sections, Front mount, Type 0, .315 THK.



Blank sections, Rear mount, Type 1,





4008

4006

PART NO.

413602000 W/RIB-BLACK

400502000 W/RIB & W/OUT SPRINGS-BLACK

PART NO.

413502000 PLAIN-BLACK

400702000 PLAIN & W/OUT SPRINGS-BLACK

PART NO.

400602000 W/RIB-BLACK

400802000 PLAIN-BLACK

Blank sections, Rear mount, Type 2,



End plates, Front mount, Type 0

End plates, Rear mount, Type 1





PART NO.

413402000 BLACK

Two required for

PART NO.

400402003 BLACK

Two required for complete assembly.

End plates, Rear mount, Type 2

473402000 W/RIB-BLACK

473302000 PLAIN-BLACK

PART NO.



Spacers, Front mount, Type 0 & 3, .078 THK. (Makes section pitch 10mm)



Stop pins



PART NO.

410802000 BLACK

PART NO.

473202003 BLACK

Two required for complete assembly.

PART NO. 402900000



3 Series Thumbwheel Switches

AVAILABLE HARDWARE

Terminal connector





605A00000

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							

Nut



Two nuts required per assembly and screws.

PART NO. 403500000

Nut driver (For 403500000 nut)



PART NO. 406100652





	CATALO	OG PAR	T NO.											C&K	PART N	NUMB	ER				RT NC
	3																				C&K PART NUMBER
MPANY I	NAME																		MER		
DRESS _																	PRI RE	NI VISIO	ON:		
STOMEF																	DE	TAIL	S:		
GINATE																					
THUM SEC	BWHE			NO. OF EC.	C	OLC)R/I	MAF	RKIN LUM	IG/S	TOF	PS/S 1	TION SEAL FUNCT M-9 & M	-	С)ES(CRIBI	E IN /	APPR	OPRIA	TE F
				1	3 –				_ -												
	N			2	3 –				_ -												
	ယ			3	3 –				_ -												
	4			4	3 -				_ -	-											
	<u>ກ</u>			5	3 -				_ -	-											
	ဂ			6	3 -				_ -												
	7			7	3 -				_ -	-											
	x			8	3 -				_ -	-											
	9			9	3 -				_ -	-											
			-	0	3 -				_ -	-											
			-	11	3 -				_ -	-											
	QI	JALI ⁻	TY C	ONT	ROL II	NSTI	RUC	CTIC	SNC				PF	RODI	JCT	ION	APF	PRO\	/AL	D/	ATE
													Q.	C. Al	PPR	OV	AL.			D/	ATE
													RE	EV.		IN	ITIAI	_S		D/	ATE
SWITCHES W	VITH MOD	ETHAN	11.050	TIONG	CONITINII	IE ON A	דוחח	FIONIAL	LOUE	TC											

M-10



SHEET ____ OF ____

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