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 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.

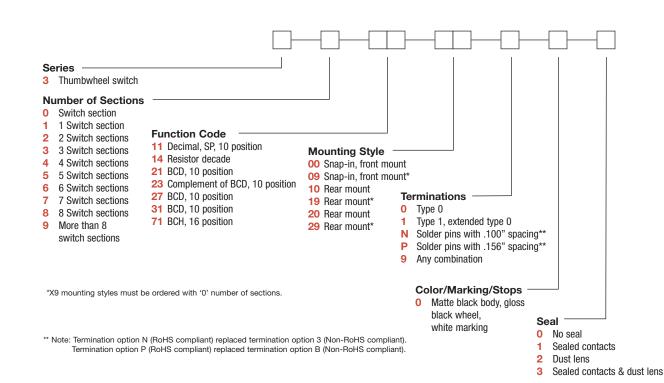
NOTE: Specifications and materials listed above are for switches with standard options For information on specific and custom switches, consult Customer Service Center

* 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.

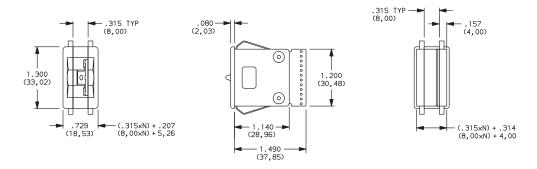




Dimensions are shown: Inches (mm) Specifications and dimensions subject to change

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.

FUNCTION CODE

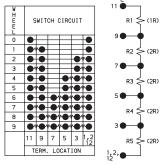
11 DECIMAL-1 POLE; 10 POSITION

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

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

HEE	SIG	NAL	s co	ONNE	CTE	D TO	СО	MMO	N S	GNA	L C
E	0	1	2	3	4	5	6	7	8	9	С
0	•										•
1		•									•
2			•								•
3				•							•
4					•						•
5						•					•
6							•				•
7								•			•
8											•
9										•	•
	2	3	4	5	6	7	8	9	10	11	12
				TER	м.	LOCA	TIC	N			

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



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

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					•
	3	5	7	11	9
	TER	м.	LOCA	TIO	N

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

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

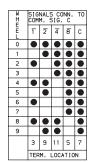


Dimensions are shown: Inches (mm) Specifications and dimensions subject to change



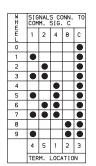
Thumbwheel Switches

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



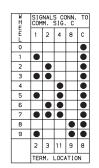
Available Terminations: 0, 1, N See fig. 1, page M-7.

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



Available Terminations: P See fig. 2, page M-7.

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



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

71 BINARY CODED HEXADECIMAL, 16 POSITION

W H E E I	SIG	NAL M.	S CC	ONN.	T0					
Ē	1	2	4	8	С					
0					•					
1	•				•					
2		•			•					
3		•			•					
4			•		•					
5			•		•					
6		•	•		•					
7		•	•		•					
8				•	•					
9	•			•	•					
Α		•		•	•					
В		•		•	•					
С			•	•	•					
D	•		•	•	•					
E		•	•	•	•					
F		•	•	•	•					
	3	5	7	11	9					
	TERM. LOCATION									

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

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

FUNCTION CODE -- -- -- -- --

MOUNTING STYLE

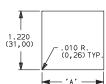
Type 0 Snap-In Front Mount

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

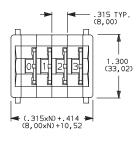
N = Number of sections.

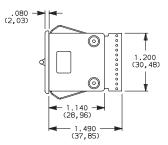
Recommended panel thickness: 0.46-.125 (1,16-3,18)

PANEL MOUNTING



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



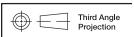


(.315×N)+.316 ► (8,00×N)+8,03

N = Number of sections.



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



09

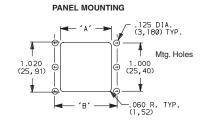
MOUNTING STYLE

Type 1 Rear Mount

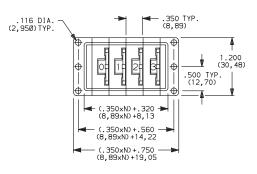
MOUNTING STYLE	DIM. 'A'	DIM. 'B'
10	(.350 x N) + .340 (8,89 x N) + (8,64)	(.350 x N) + .560 (8,89 x N) + (14,22)

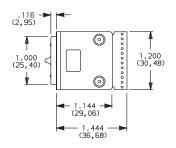
N = Number of sections.

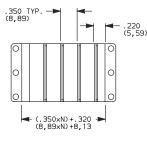
Recommended panel thickness: 0.46-.125 (1,16-3,18)



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





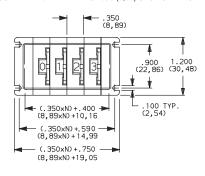


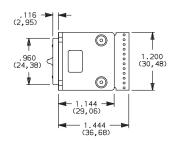
N = Number of sections.

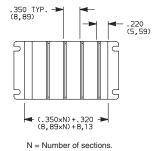
SWITCH SECTION ONLY-UNASSEMBLED WITHOUT ENDPLATES OR SPACERS (Must be ordered with number of sections option "0", see Page M-4.)

Type 2 Rear Mount

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

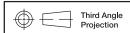






SWITCH SECTION ONLY-UNASSEMBLED WITHOUT ENDPLATES OR SPACERS (Must be ordered with number of sections option "0", see Page M-4.)

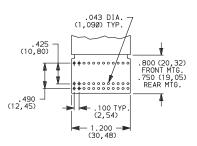
> NOTE: Endolates, blank sections, spacers and assembly hardware available separately, see pages M-8 and M-9.



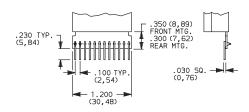
Dimensions are shown: Inches (mm) Specifications and dimensions subject to change



TYPE 1, EXTENDED TYPE 0



N SOLDER PINS WITH .100" SPACING

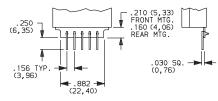


Signal traces cut except for common(s).

9 ANY COMBINATION OF TERMINATION CONFIGURATIONS OR SPECIAL TERMINATIONS.

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

P SOLDER PINS WITH .156" SPACING



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

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



Dust Lens



Specifications and dimensions subject to change



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M

AVAILABLE HARDWARE Blank sections, Type 0, Blank sections, Front mount, Type 0, Blank sections, Rear mount, Type 1, .315 THK. .315 THK. .350 THK. 4006 PART NO. PART NO. PART NO. 413602000 W/RIB-BLACK 413502000 PLAIN-BLACK 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 PART NO. 473402000 W/RIB-BLACK PART NO. PART NO. 413402000 BLACK 400402003 BLACK 473302000 PLAIN-BLACK Two required for complete assembly. Two required for Spacers, Front mount, Type 0 & 3, .078 THK. (Makes section pitch 10mm) End plates, Rear mount, Type 2 Stop pins PART NO. PART NO. PART NO. 473202003 BLACK 410802000 BLACK 402900000 Two required for complete assembly.



Thumbwheel

3 Series Thumbwheel Switches

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 Nut driver (For 403500000 nut)



PART NO. 406100652



IVI



C	CATALC	G PAF	RT NO.											C&K P	ART NUI	ИВЕ	R		RT N
	3																		C&K PART NUMBER
- ΜΡΔΝΙ Υ ΝΙΔ	ME							,	-								CUSTOME	 R	_
MPANY NA																	PRINT REVISION:		
STOMER C																	DETAILS:		
IGINATED																			
TUUMD	A/I I			NO.		UOT!	IONI	005	\	TED		ATI	ON16				PUDE IN ADD		ATE E
THUMB\ SECTI				NO. OF SEC.		OLC)R/N	COE MARK ILLU DES IN	KING JMIN	STO	OPS ON	/SE	AL -	-	DE	SU	RIBE IN APF	'ROPRI	AIEF
-				1	3 -	-	JDL BL	_		VO (OL)	LIAGE		J Q IVI	10).					
N	=			2	3 -		Ť	_	- _			Ī							
ω	=			3	3 –				- -			Ī							
4	=			4	3 -			_	- _										
5	=			5	3 -			_	- -										
6				6	3 –			_	- -										
7	=			7	3 –			_	- _										
8				8	3 –			_	- -										
9	=			9	3 –				- _										
0				10	3 –				- -										
				11	3 –			_	- -										
	QL	JALI	TY C	ONT	ROL II	NSTE	RUC	OIT	NS				PR	ODU	CTIC	N.	APPROVAL	. С	ATE
													Q.C	C. AF	PRO	VA	.L	D	ATE
													RE	V.		INI [.]	TIALS	D	ATE
R SWITCHES WITH																			



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

SHEET_

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757200264 764300000 MHU35 MHU37 807039-1 825.003.011 825.005.011 825.053.011 825.055.011 826.000.071 827.020.011
827.400.021 835.900.023 MML52C10C MML52E10C MML92HGH MML93K 84211M02CNNS 84212M02CNNS 84217A8.0LNOS
842.500.011 843.000.011 843187-000 843487-000