

Features/Benefits

- · Most complete product offering in the industry · Test & measurement equipment
- Spacers available to fit most panel cutouts
- Front or rear mounting options
- Illuminated models available

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 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: -10°C to 65°C.

Materials

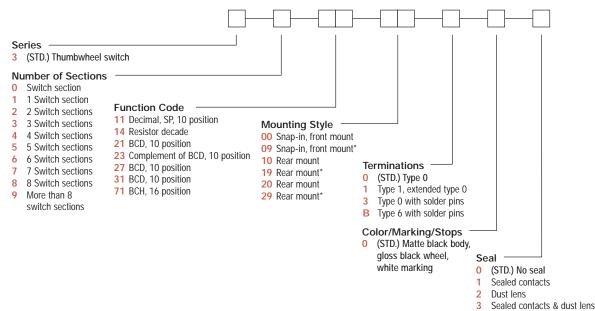
HOUSING: ABS plastic. THUMBWHEEL: ABS plastic.

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-9 thru M-12. For additional options not shown in catalog, consult Customer Service Center. Consult factory for illumination availability.

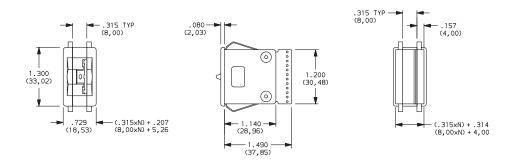


^{*}X9 mounting styles must be ordered with '0' number of sections



SERIES

3 (STD.) THUMBWHEEL SWITCHES



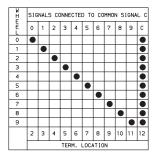
NUMBER OF SECTIONS ■■■■■■■

- 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-10 and M-11.
- 1-8 Number of switch sections in assembly, includes endplates.
- 9 More than 8 switch sections, specify on CONFIGURATION FORM, page M-15 and consult Customer Service Center.

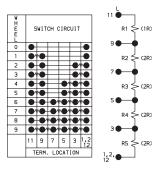
NOTE: Endplates and blank sections available separately, see pages M-13 and M-14.

FUNCTION CODE -- -- -- --

11 DECIMAL-1 POLE; 10 POSITION



Available Terminations: 0, 1, 3 See fig. 1, page M-12. 14 RESISTOR DECADE; 1-2-2-2-2 CODE (RESISTORS NOT SUPPLIED)



Available Terminations: 1 See fig. 1, page M-12.

Ä	SIGNALS CONN. TO COMM. SIG. C				
W H E E L	1	2	4	8	С
0					•
1	•				•
2		•			•
3	•	•			•
4			•		•
5	•		•		•
6		•	•		
7	•	•	•		•
8				•	•
9	•			•	•
	3	5	7	11	9
	TERM. LOCATION				

BCD 1-2-4-8; 10 POSITION

21

Available Terminations: 0, 1, 3 See fig. 1, page M-12.

NOTE: For terminal location diagram, see page M-12.



Third Angle Projection

Dimensions are shown: IN (mm) Dimensions subject to change



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FUNCTION CODE -----

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

W SIGNALS CONN. TO					
EEL	ī	2	4	8	С
0	•	•	•	•	•
1		•	•	•	•
2	•				
3					
4	•	•		•	•
5		•		•	•
6	•			•	•
7				•	•
8	•	•	•		•
9		•	•		•
	3	9	11	5	7
	TER	TERM, LOCATION			

Available Terminations: 0, 1, 3 See fig. 1, page M-12. 27 BCD 1-2-4-8; 10 POSITION

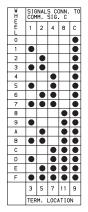
W H E E L	SIGNALS CONN. TO COMM. SIG. C				
Ē	1	2	4	8	С
0					
1	•				•
2		•			•
3	•				
4			•		•
5	•		•		
6	Г		•		
7	•	•	•		•
8				•	•
9	•			•	
	4	5	1	2	3
	TERM. LOCATION				

Available Terminations: B See fig. 2, page M-12.

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

H E E	SIGNALS CONN. TO COMM. SIG. C				
Ē	1	2	4	8	С
0					
1	•				•
2		•			•
3					•
4			•		•
5	•		•		•
6					•
7	•	•	•		•
8				•	•
9					•
	2	3	11	9	8
	TERM. LOCATION				

Available Terminations: 0, 1, 3 See fig. 1, page M-12. 11 BINARY CODED HEXADECIMAL, 16 POSITION



Available Terminations: 0, 1, 3 See fig. 1, page M-12.

NOTE: For terminal location diagram, see page M-12.

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.

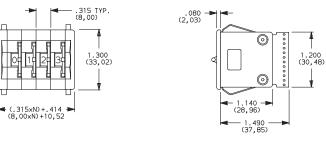
Recommended panel thickness:
0.46-.125
(1,16-3,18)

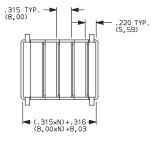
PANEL MOUNTING



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-9.)

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





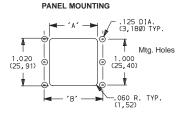
MOUNTING STYLE

Type 1 Rear Mount

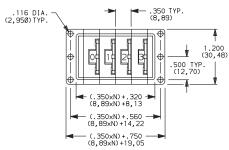
MOUNTING STYLE	DIM. 'A'	DIM. 'B'	
10	(.350 x N) + .340 (8,89 x N) + (8,64)	(.350 x N) + .560 (8,89 x N) + (14,22)	

N = Number of sections.

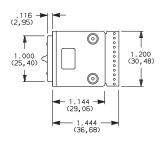
Recommended panel thickness:
0.46-.125
(1,16-3,18)

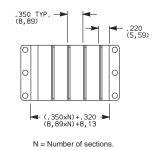


10 SWITCH ASSEMBLY W/ ENDPLATES-.350 (8,89) SECTION PITCH



(Must be ordered with number of sections option "0", see Page M-9.)



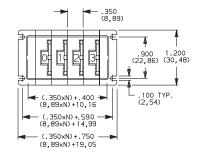


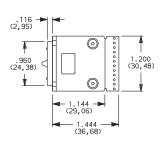
SWITCH SECTION ONLY-UNASSEMBLED WITHOUT ENDPLATES OR SPACERS

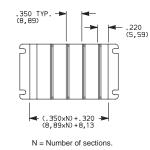
Type 2 Rear Mount

19

20 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-9.)



Type 3 Snap1-in Front Mount

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

 $\begin{tabular}{ll} \textbf{NOTE:} Endplates, blank sections, spacers and assembly hardware available separately, see pages M-13 and M-14. \end{tabular}$



Third Angle Projection

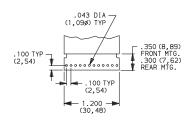
Dimensions are shown: IN (mm) Dimensions subject to change



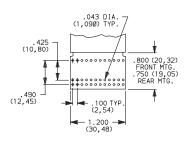
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TERMINATIONS ----

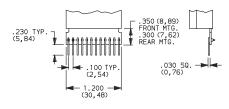
(STD.) TYPE 0



TYPE 1, EXTENDED TYPE 0



TYPE 0 WITH SOLDER PINS

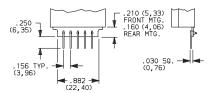


Signal traces cut except for common(s).

ANY COMBINATION OF TERMINATION CONFIGURATIONS OR SPECIAL TERMINATIONS.

> Specify on configuration form, page M-15 and consult Customer Service Center.

TYPE 6 WITH SOLDER PINS



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-14.

Terminal Location Numbers









FIG. 2

NOTE: See function codes, pages M-9 and M-10, for signal locations.

COLOR/MARKING/STOPS

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

NOTE: Stop pins are available separately, see page M-14.



SEAL ----

- 0 (STD.) 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



Third Angle

Dimensions are shown: IN (mm)





Blank sections, Front mount, Type 0 & 3, .315 THK.



Blank sections, Rear mount, Type 1, .350 THK.



PART NO.

413602000 W/RIB-BLACK 413609000 W/RIB-GRAY

400502000 W/RIB & W/OUT SPRINGS-BLACK 400509000 W/RIB & W/OUT SPRINGS-GRAY

PART NO.

413502000 PLAIN-BLACK 413509000 PLAIN-GRAY

400702000 PLAIN & W/OUT SPRINGS-BLACK 400709000 PLAIN & W/OUT SPRINGS-GRAY

PART NO.

400602000 W/RIB-BLACK 400609000 W/RIB-GRAY 400802000 PLAIN-BLACK 400809000 PLAIN-GRAY

Blank sections, Rear mount, Type 2,



End plates, Front mount, Type 0







4733





PART NO.

473402000 W/RIB-BLACK 473409000 W/RIB-GRAY 473302000 PLAIN-BLACK 473309000 PLAIN-GRAY

4734

PART NO.

413402000 BLACK 413409000 GRAY

Two required for complete assembly

PART NO.

400402000 BLACK 400409000 GRAY

Two required for complete assembly.

End plates, Rear mount, Type 2



473202000 BLACK 473209000 GRAY

PART NO.

Two required for

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



PART NO.

410802000 BLACK 410809000 GRAY

Stop pins



PART NO. 402900000



Cannon

M-13

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	
412703000	8–10	7–9	
412704000	11–13	10–12	
412705000	14–16	13–15	

Nut





Two nuts required per assembly and screws.

Nut driver (For 403500000 nut)



PART NO. 403500000 PART NO. 406100652





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T92 1302030523 798204000 843187-000 843487-000 MOR05 GOUPILLE15X3G06 A22L01AT1 HG9Z-2K1 12C1055-1 12Q1452-2
1301260038 1437612-7 1530AABB B1440204 NALDENG-B-SPL PAPHC22 PAPLCONN PARR3 PAWP9 PAYPR6 K16-VP-NUT K18
K35 29Z2036-2 A2268 A3CT7122 SP12 2S09-09.0 2SS09-08.0 3-1437627-5 39C1008-2 MHU27 BP1440804 HWNP-SPL C0312.5
C0620 C0810 U10313 U1676 U369 U916 K36 K39 46W1133-1 03-0023 108565 U3402 W46 VVA9CMD-100