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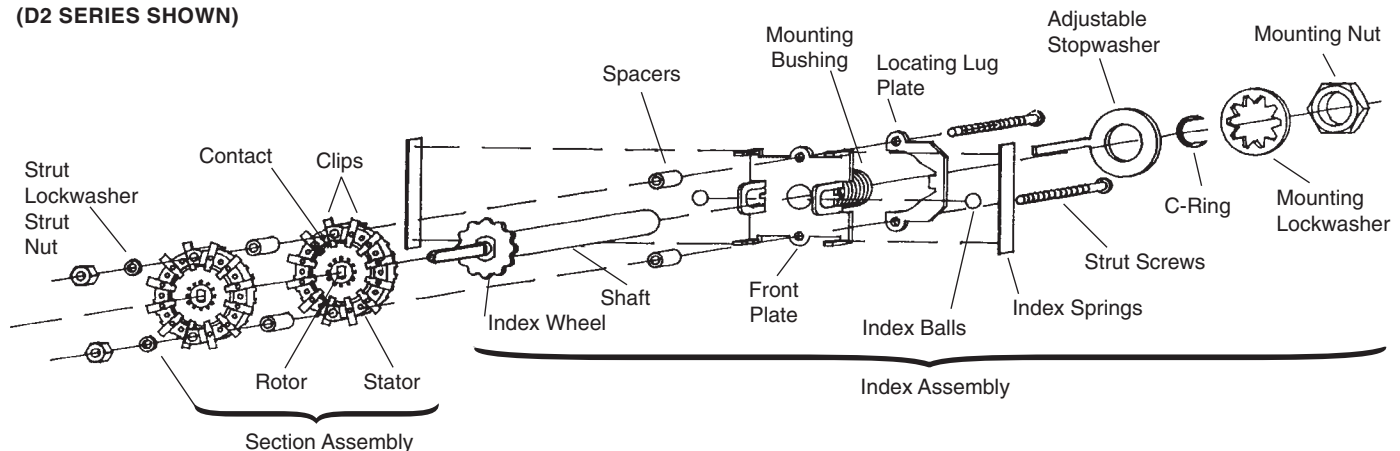
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EXPLODED VIEWS AND GLOSSARY

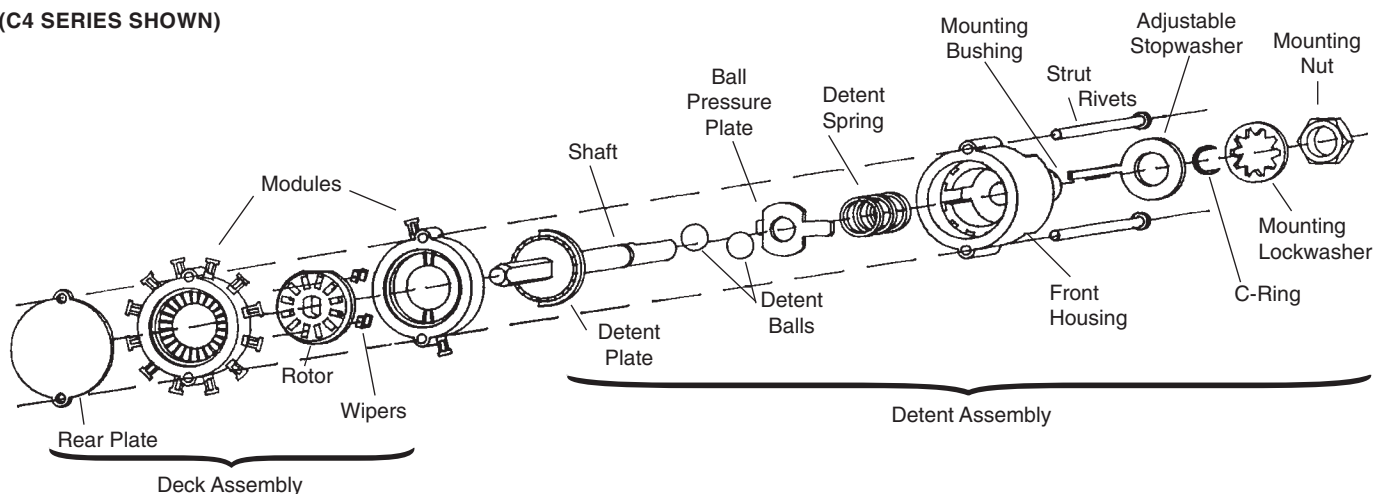
EXAMPLE OF OPEN FRAME CONSTRUCTION

(D2 SERIES SHOWN)



EXAMPLE OF ENCLOSED FRAME CONSTRUCTION

(C4 SERIES SHOWN)



GLOSSARY

Ceramic - Used for stators, an inorganic, non-metallic material processed at high temperatures.

Contact Resistance - The interface resistance between a clip and contact or a wiper and a contact.

Diallyl Phthalate - Used for stators and modules, a thermosetting plastic.

Dielectric Strength - The maximum voltage a section or deck assembly can handle.

Glass Epoxy - Used for stators, a fiberglass material.

Index and Detent Assembly - Performs the mechanical functions of the switch.

Index Angle - The number of degrees between positions.

Insulation Resistance - The resistance of the stator or module between switching components on the stator or module.

Non-Shorting - Also known as break before make.

Pole - An electrically isolated switching circuit. (Common).

Polyester - Used for modules and switch bodies - a thermosetting or thermoplastic resin.

Positions - The mechanical indexing of the electrical circuits. (Throw).

Section and Module Assembly - Performs the electrical functions of the switch.

Shorting - Also known as make before break.

Stop Strength - The maximum rotation force the mechanical stop can facilitate.



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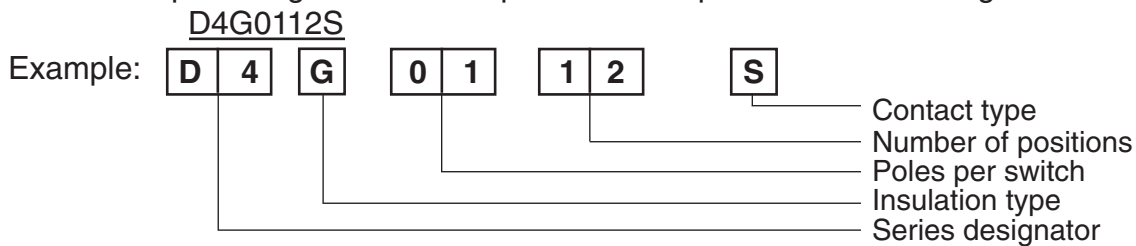
Telephone: (888) ROTARYS or (919) 833-0707

Fax: (800) 909-9171 or (919) 833-8016

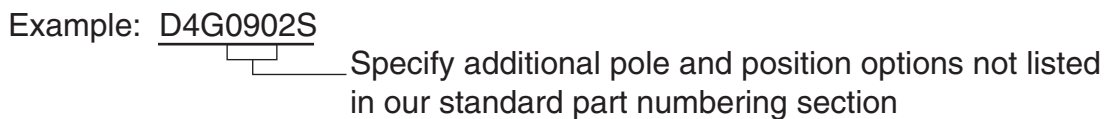
ORDERING METHODS

Determine the most applicable switch construction (C) enclosed, (D) open frame, (E) special purpose or (M) military, and then use the appropriate selector guide to determine the desired series. There are four ways to select a switch from the catalog.

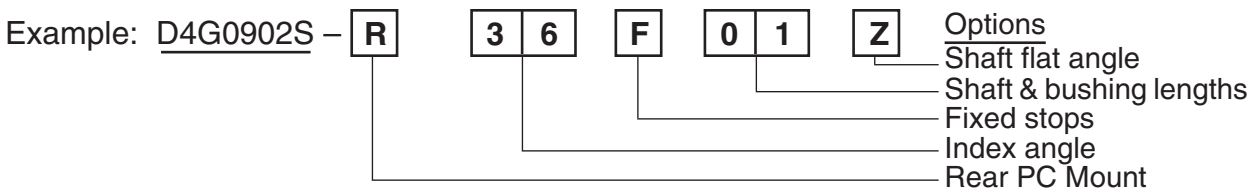
- 1. Use the pre-designed standard part numbers printed in the catalog.



- 2. Use the “How to Order Additional Options” section located with each series to specify the switch requirements with standard options.



- 3. Use the “How to Order Additional Options” to add additional options to either a standard part number or a standard option part number.



- 4. Contact the factory or your local representative of Electroswitch. Electroswitch designs and manufactures thousands of custom rotary switches, including “high volume one of a kind” designs. Open and enclosed frame worksheets are provided on pages 5 and 45 to help communicate your requirements.

Example: D4G0902S- Factory Assigned

SELECTOR GUIDE

ENCLOSED ROTARY ELECTRONIC SWITCHES



CHARACTERISTICS

SERIES C1

SERIES C2

SERIES C3

SERIES C4

SERIES C5 / C6

SERIES C7

Page Number	6,7	8,9	8,9	10,11	12,13	14,15
Construction	ENCLOSED	ENCLOSED	ENCLOSED	ENCLOSED	ENCLOSED	ENCLOSED
Diameter	.865" wide	.82" wide	1.20" wide	1.50"	.92"	2.032"
Positions	2 - 12	2 - 8	2 - 12	2 - 12	2 - 12	2 - 24
Current and Voltage	0.1A @ 125 VAC 0.25A @ 28 VDC	0.1A @ 125 VAC 0.25A @ 28 VDC	0.1A @ 125 VAC 0.25A @ 28 VDC	0.3A @ 125 VAC 0.5A @ 28 VDC	1.0A @ 125 VAC 1.0A @ 28 VDC	0.5A @ 125 VAC 1.0A @ 28 VDC
Current Carrying Capacity	6A	6A	6A	15A	5A	25A
Dielectric Strength	600 VAC	1,000 VAC	1,000 VAC	1,000 VAC	1,000 VAC	1,000 VAC
Insulation Resistance	10,000	10,000	10,000	10,000	10,000	10,000
(megohms)						
Contact Resistance	5	30	30	3	20	3
(milliohms)						
Insulation - Glass Epoxy	NO	NO	NO	YES ★	NO	NO
Diallyl Phthalate	STANDARD	NO	NO	STANDARD	NO	STANDARD
Ceramic	NO	NO	NO	NO	NO	NO
Polyester	NO	STANDARD	STANDARD	NO	STANDARD	NO
Contacts - Silver Alloy ★	YES	NO	NO	YES	NO	YES
Brass/Silver Plate	STANDARD	STANDARD	STANDARD	STANDARD	STANDARD	STANDARD
Stop Strength	8 in. lb.	8 in. lb.	8 in. lb.	25 in. lb.	4.5 in. lb.	25 in. lb.
Mechanical Life	25,000 cycles	25,000 cycles	25,000 cycles	25,000 cycles	10,000 cycles	25,000 cycles
Detenting Angles: 15°	—	—	—	—	—	15
30°	30	30	30	30	30	30
36°	—	—	—	36	—	—
45°	—	—	—	45	—	—
60°	60	60	60	60	—	60
90°	90	90	90	90	—	90
Quick Connect	NO	NO	NO	YES	NO	YES
Rear PC Mount	YES	NO	NO	YES	YES	NO
Vertical PC Mount ★	YES	YES	YES	YES	NO	NO
Front PC Mount ★	NO	NO	NO	YES	NO	NO
Dual Concentric Designs ★	YES	YES	YES	YES	NO	YES
Keylock ★	YES	YES	YES	YES	NO	YES
Spring Return ★	NO	NO	NO	YES	NO	NO
Water Resistant Seals ★	YES	YES	YES	YES	YES	YES

★ Contact factory



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ENCLOSED FRAME WORKSHEET

SERIES PREFERRED _____

ELECTRICAL REQUIREMENTS:

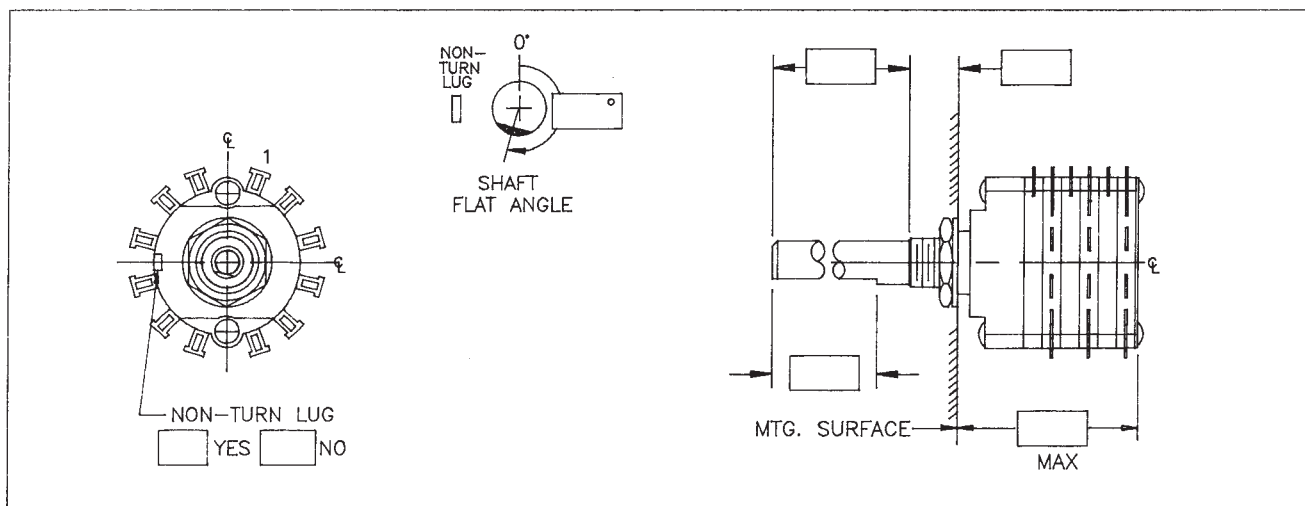
☐ SHORTING OR ☐ NON-SHORTING _____

CURRENT CARRYING CAPACITY _____

INTERRUPTING CURRENT _____

MAXIMUM WORKING VOLTAGE _____

ADDITIONAL REQUIREMENTS: _____



MECHANICAL REQUIREMENTS:

NO. OF POSITIONS _____

NO. OF POLES _____

TERMINAL TYPE _____

INDEX ANGLE _____

Estimated usage _____

NOTES: SEE APPROPRIATE CATALOG PAGES FOR STANDARD DIMENSIONS AND OPTIONS.

ADDITIONAL REQUIREMENTS: _____



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FOR ASSISTANCE
PLEASE CALL:
(919) 833-0707
(888) ROTARYS

Sender Information

Date: _____ Time: _____

Name: _____

Company: _____

Address: _____

Ph #: _____

Fax #: _____

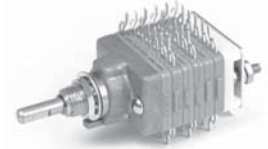
FAX TRANSMISSION

C1 - SERIES

SPECIFICATIONS AND ORDERING INFORMATION

0.865" WIDE 0.25 AMP @ 28 VDC

The C1 Series is our smallest enclosed rotary switch, offering index angles of 30°, 60°, and 90°. Standard designs utilize solder lug or vertical PC terminals and diallyl phthalate insulation.



SPECIFICATIONS

ELECTRICAL

Current and Voltage Rating: Make and break resistive load 0.25 amp @ 28 VDC; 0.1 amp @ 125 VAC.
Current Carrying Capacity: 6 amps.
Dielectric Strength: 600 VAC between current carrying parts and ground.
Contact Resistance: Average initial 5 milliohms.
Insulation Resistance: In excess of 10,000 megohms.

Hardware: Mounting nut and lockwasher are shipped assembled.

MECHANICAL

Materials and Finishes: All parts utilize non-corrosive materials as standard.
Terminals and Contacts: Brass with silver plate as standard.
Insulation: Diallyl phthalate.
Index: Dual-ball, hill and valley.
Index Life: 25,000 cycles minimum.
Index Torque: Switches have lowest practical torque consistent with crisp detenting and smooth, reliable operation.
Index Angles: 30° standard, 60°, and 90° available.
Index Stops: Fixed standard, adjustable, or continuous available.
Stop Strength: 8 in. lbs. minimum.

STANDARD PART NUMBER

SOLDER LUG - ADJUSTABLE STOPS

SWITCHES - 30° INDEXING - STOPS SET @ 2 POS.

POLES	ACTIVE POSITIONS	POLES/ DECK	NO. OF DECKS	SHORTING	NON-SHORTING	FIG. *
01	02-12	1	1	C1D0112S - A	C1D0112N - A	CA
02	02-12	1	2	C1D0212S - A	C1D0212N - A	CA
02	02-06	2	1	C1D0206S - A	C1D0206N - A	CH
03	02-12	1	3	C1D0312S - A	C1D0312N - A	CA
03	02-04	3	1	C1D0304S - A	C1D0304N - A	CK
04	02-06	2	2	C1D0406S - A	C1D0406N - A	CH
06	02-04	3	2	C1D0604S - A	C1D0604N - A	CK
06	02-06	2	3	C1D0606S - A	C1D0606N - A	CH

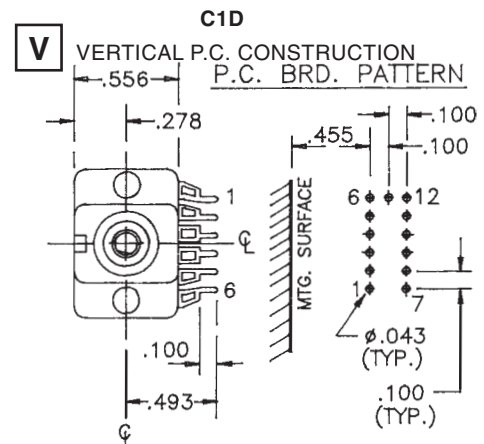
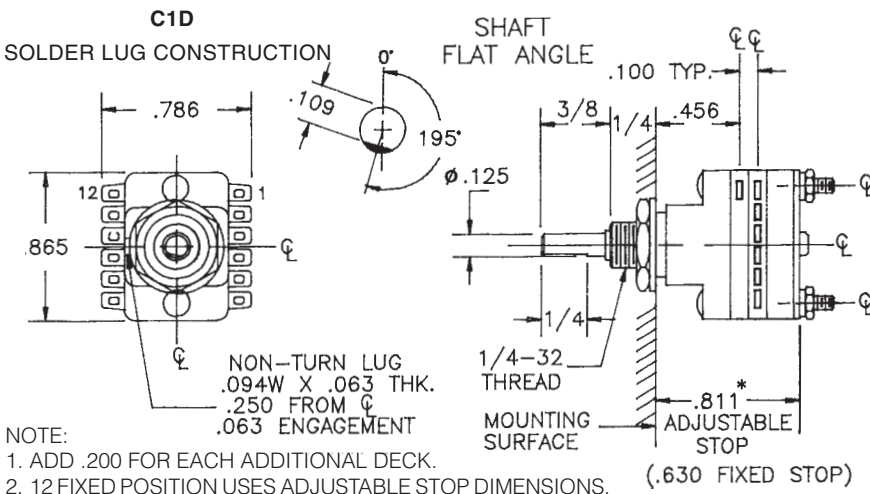
VERTICAL P.C. TERMINALS - ADJUSTABLE STOPS

SWITCHES - 30° INDEXING - STOPS SET @ 2 POS.

POLES	ACTIVE POSITIONS	POLES/ DECK	NO. OF DECKS	SHORTING	NON-SHORTING	FIG. *
01	02-06	1	1	C1D0106S - VA	C1D0106N - VA	CB
01	02-12	1	1	C1D0112S - VA	C1D0112N - VA	CC
02	02-06	1	2	C1D0206S - VA	C1D0206N - VA	CB
02	02-12	1	2	C1D0212S - VA	C1D0212N - VA	CC
03	02-06	1	3	C1D0306S - VA	C1D0306N - VA	CB
03	02-12	1	3	C1D0312S - VA	C1D0312N - VA	CC
04	02-06	1	4	C1D0406S - VA	C1D0406N - VA	CB
04	02-12	1	4	C1D0412S - VA	C1D0412N - VA	CC

* FIGURES ARE SHOWN ON PAGE 55.

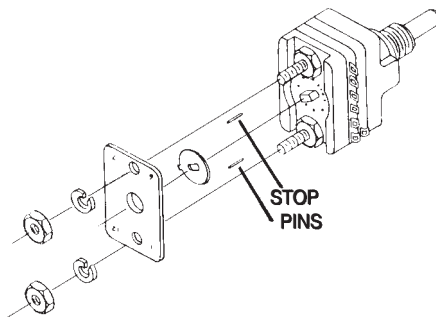
DIMENSIONS



How to Order Additional Options:

2 DIGIT SERIES	INSULATION TYPE	TOTAL POLES	ACTIVE POSITIONS	CONTACT TYPE	TERMINAL TYPE	INDEX ANGLE	STOP TYPE	SHAFT/ BUSHING	SHAFT FLAT
C1	D - DIALLYL	01 - MIN.	12 - MAX @ 30° 06 - MAX @ 60° 04 - MAX @ 90°	N - NON-SHORTING S - SHORTING	L - SOLDER LUG V - VERT. P.C.	30° 60° 90°	F - FIXED C - CONT. A - ADJ.	SEE CHART "A"	SEE CHART "B"
CUSTOMERS SPECIFIED ORDER NUMBER FOR STANDARD OPTIONS					ADDITIONAL OPTIONS				
C	1	D							
			(SPECIFY)	(SPECIFY)	(SPECIFY)	(SPECIFY)	(SPECIFY)	(SPECIFY)	(SPECIFY)

ADJUSTABLE STOP MECHANISM



SHAFT, BUSHING, AND FLAT OPTIONS

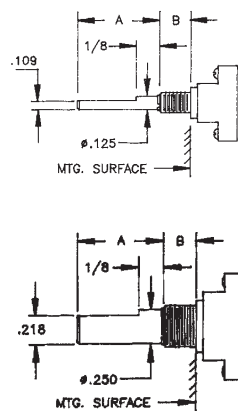
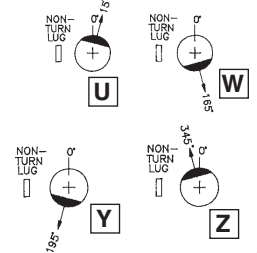


Chart A 1/8" shaft		
P/N OPT	Shaft Lgth	Bush Lgth
01	3/8	1/4
02	3/8	3/8
03	1/2	1/4
04	1/2	3/8
05	9/16	1/4
06	9/16	3/8
07	5/8	1/4
08	5/8	3/8
09	3/4	1/4
10	3/4	3/8
11	7/8	1/4
12	7/8	3/8
13	1	1/4
14	1	3/8

Chart A 1/4" shaft		
P/N OPT	Shaft Lgth	Bush Lgth
15	3/8	1/4
16	3/8	3/8
17	1/2	1/4
18	1/2	3/8
19	3/4	1/4
20	3/4	3/8
21	1	1/4
22	1	3/8

CHART "B"	
P/N OPT.	FLAT ANGLE
U	15°
W	165°
Y	195°
Z	345°

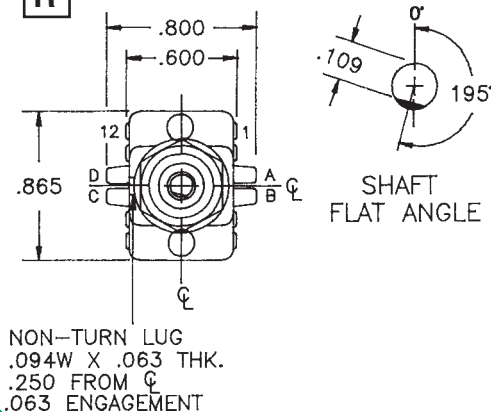
SHAFT AS VIEWED WITH NON-TURN LUG AT 9 O'CLOCK AND SHAFT IN EXTREME CCW POSITION AND STRUT BOLTS ORIENTED VERTICALLY.



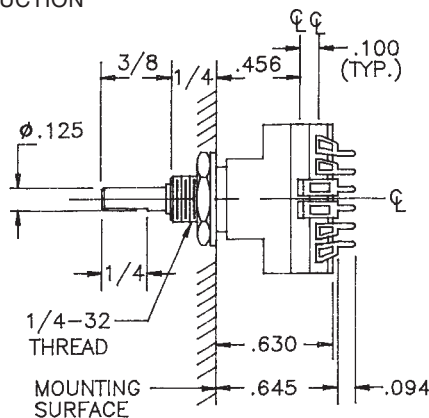
PRINTED CIRCUIT BOARD TERMINAL OPTIONS

R

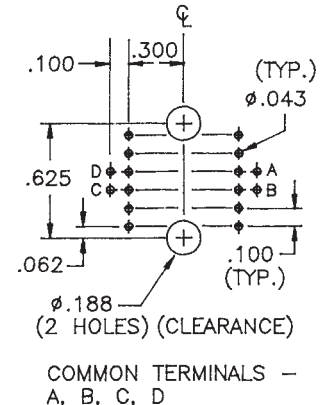
REAR P.C. FIXED STOP CONSTRUCTION



NON-TURN LUG
.094W X .063 THK.
.250 FROM ϕ
.063 ENGAGEMENT



P.C. BRD. PATTERN



CUSTOM SWITCHES ARE AVAILABLE. CONTACT THE FACTORY WITH YOUR COMPLETE SPECIFICATIONS.

C2/C3 - SERIES

SPECIFICATIONS AND ORDERING INFORMATION

0.82 / 1.2" WIDE 0.25 AMP @ 28 VDC

The C2/C3 Series offers an 8 position and a 12 position vertical P.C. board mountable design. Standard designs utilize a 30° index angle and polyester insulation.



SPECIFICATIONS

ELECTRICAL

Current and Voltage Rating: Make and break resistive load
0.25 amp @ 28 VDC; 0.1 amp @ 125 VAC.

Current Carrying Capacity: 6 amps.

Dielectric Strength: 1,000 VAC between current carrying parts and ground.

Contact Resistance: Average initial 30 milliohms.

Insulation Resistance: In excess of 10,000 megohms.

Hardware: Mounting nut and lockwasher are shipped assembled.

MECHANICAL

Materials and Finishes: All parts utilize non-corrosive materials as standard.

Terminals and Contacts: Brass with silver plate as standard.

Insulation: Polyester.

Index: Dual-ball, hill and valley.

Index Life: 25,000 cycles minimum.

Index Torque: Switches have lowest practical torque consistent with crisp detenting and smooth, reliable operation.

Index Angles: Positive 30° standard, 60°, and 90° available.

Index Stops: Fixed standard, adjustable, or continuous available.

Stop Strength: 8 in. lbs. minimum.

STANDARD PART NUMBER

C2 - 8 PIN CONSTRUCTION

SWITCHES - 30° INDEXING

ADJUSTABLE STOPS SET @ 2 POS. - P.C. TERMINALS

POLES	ACTIVE POSITIONS	POLES/ DECK	NO. OF DECKS	SHORTING	NON-SHORTING	FIG. *
01	02-08	1	1	C2P0108S - A	C2P0108N - A	CD
02	02-08	1	2	C2P0208S - A	C2P0208N - A	CD
02	02-04	2	1	C2P0204S - A	C2P0204N - A	CI
03	02-08	1	3	C2P0308S - A	C2P0308N - A	CD
04	02-04	2	2	C2P0404S - A	C2P0404N - A	CI
04	02-08	1	4	C2P0408S - A	C2P0408N - A	CD
05	02-08	1	5	C2P0508S - A	C2P0508N - A	CD
06	02-04	2	3	C2P0604S - A	C2P0604N - A	CI

C3 - 12 PIN CONSTRUCTION

SWITCHES - 30° INDEXING

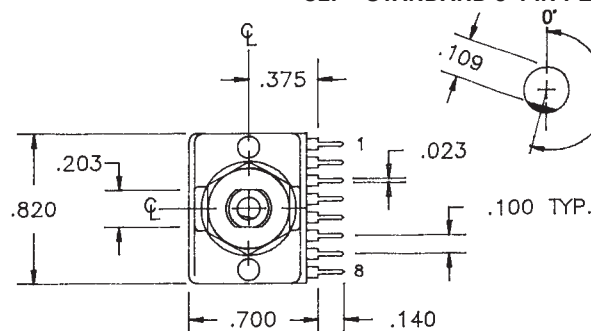
ADJUSTABLE STOPS SET @ 2 POS. - P.C. TERMINALS

POLES	ACTIVE POSITIONS	POLES/ DECK	NO. OF DECKS	SHORTING	NON-SHORTING	FIG. *
01	02-12	1	1	C3P0112S - A	C3P0112N - A	CA
02	02-12	1	2	C3P0212S - A	C3P0212N - A	CA
02	02-06	2	1	C3P0206S - A	C3P0206N - A	CH
03	02-04	3	1	C3P0304S - A	C3P0304N - A	CK
03	02-12	1	3	C3P0312S - A	C3P0312N - A	CA
04	02-06	2	2	C3P0406S - A	C3P0406N - A	CH
04	02-12	1	4	C3P0412S - A	C3P0412N - A	CA
06	02-04	3	2	C3P0604S - A	C3P0604N - A	CK

* FIGURES ARE SHOWN ON PAGE 55.

C2 - DIMENSIONS - 8 PIN DESIGN

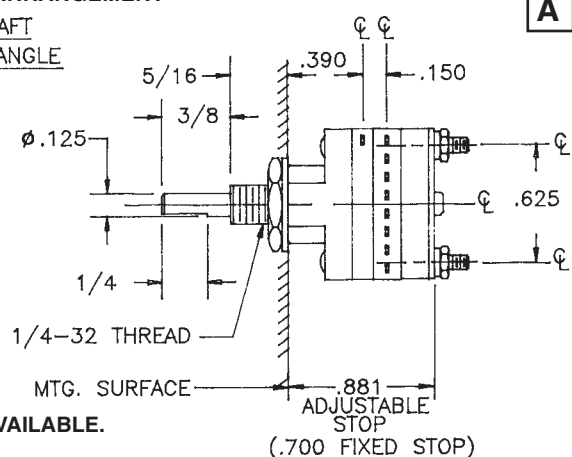
C2P - STANDARD 8-PIN PER DECK ARRANGEMENT



NOTE:

- ONE DECK EQUALS TWO WAFERS.
- ADD .300" FOR EACH ADDITIONAL DECK.

1/4" DIAMETER SHAFTS ARE AVAILABLE.
CONTACT FACTORY.



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ADDITIONAL OPTIONS AND ORDERING INFORMATION

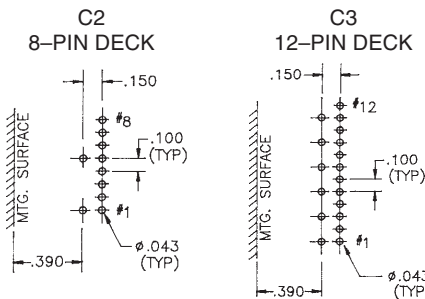
C2/C3 - SERIES

How to Order Additional Options:

2 DIGIT SERIES	INSULATION TYPE	TOTAL POLES	ACTIVE POSITIONS	CONTACT TYPE	TERMINAL TYPE	INDEX ANGLE	STOP TYPE	SHAFT/ BUSHING	SHAFT FLAT
C2	P-POLYESTER	01 - MIN.	08 - MAX @ 30° 04 - MAX @ 60° 03 - MAX @ 90°	N - NON SHORTING S - SHORTING		30° 60° 90°	F - FIXED C - CONT. A - ADJ.	SEE CHART "A"	SEE CHART "B"
C3	P-POLYESTER	01 - MIN.	12 - MAX @ 30° 06 - MAX @ 60° 04 - MAX @ 90°	N - NON SHORTING S - SHORTING					

CUSTOMERS SPECIFIED ORDER NUMBER FOR STANDARD OPTIONS				ADDITIONAL OPTIONS			
	P	(SPECIFY)	(SPECIFY)	(SPECIFY)	(SPECIFY)	(SPECIFY)	(SPECIFY)

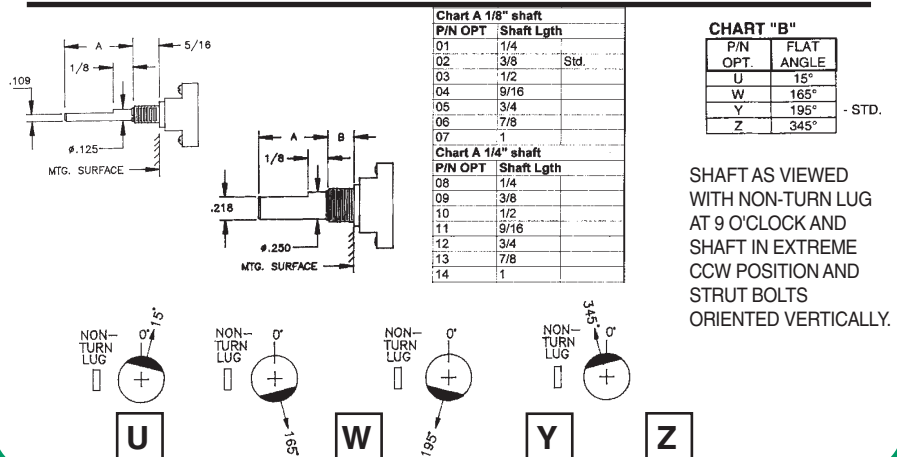
PRINTED CIRCUIT BOARD PATTERN



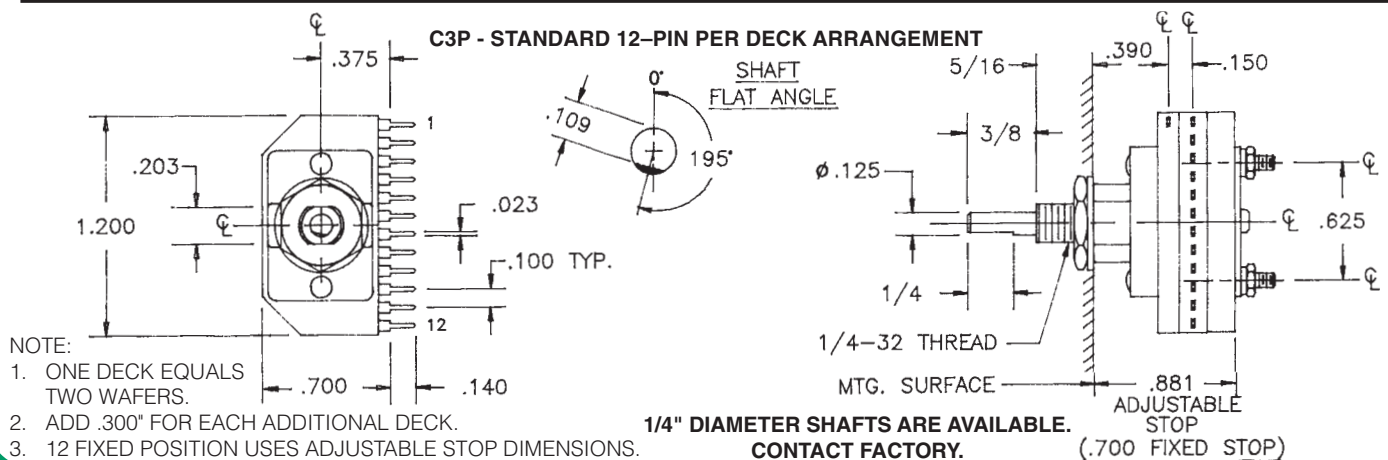
NOTES:

1. The **standard** spacing for the 1/8" dia. shaft from the first row of terminals to the mounting surface is .390 in.
2. The **standard** spacing for the 1/4" dia. shaft from the first row of terminals to the mounting surface is .481 in.

SHAFT AND FLAT OPTIONS



C3 - DIMENSIONS - 12 PIN DESIGN



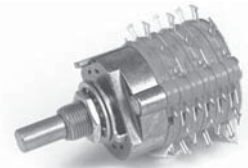
CUSTOM SWITCHES ARE AVAILABLE. CONTACT THE FACTORY WITH YOUR COMPLETE SPECIFICATIONS.

C4 - SERIES

1.5" DIAMETER 0.5 AMP @ 28 VDC

SPECIFICATIONS AND ORDERING INFORMATION

The C4 Series provides a versatile, fully enclosed design, that helps keep dirt and moisture out of the contact area while locking in life time lubricants. IP67 Rating Available.



SPECIFICATIONS

ELECTRICAL

Current and Voltage Rating: Make and break resistive load 0.5 amp @ 28 VDC; 0.3 amp @ 125 VAC.

Current Carrying Capacity: 15 amps.

Dielectric Strength: 1,000 VAC between current carrying parts and ground.

Contact Resistance: Average initial 3 milliohms.

Insulation Resistance: In excess of 10,000 megohms.

Hardware: Mounting nut and lockwasher are shipped assembled.

MECHANICAL

Materials and Finishes: All parts utilize non-corrosive materials as standard.

Terminals and Contacts: Brass with silver plate as standard.

Insulation: Diallyl phthalate.

Index: Dual-ball, hill and valley.

Index Life: 25,000 cycles minimum.

Index Torque: Switches have lowest practical torque consistent with crisp detenting and smooth, reliable operation.

Index Angles: 30° standard, 36°, 45°, 60°, and 90° available.

Index Stops: Fixed standard, adjustable or continuous available.

Stop Strength: 15 in. lbs. minimum.

STANDARD PART NUMBER

SOLDER LUG - ADJUSTABLE STOPS

SWITCHES - 30° INDEXING - STOPS SET @ 2 POS.

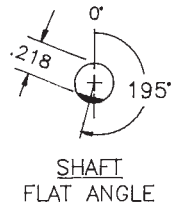
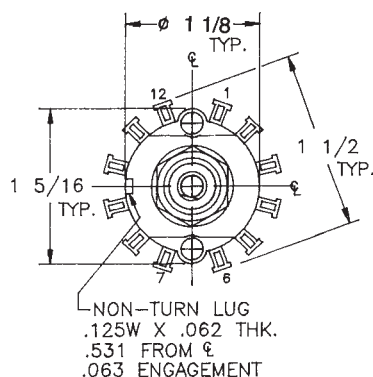
POLES	ACTIVE POSITIONS	POLES/ DECK	NO. OF DECKS	SHORTING	NON-SHORTING	FIG. *
01	02-12	1	1	C4D0112S - A	C4D0112N - A	CA
02	02-06	2	1	C4D0206S - A	C4D0206N - A	CH
02	02-12	1	2	C4D0212S - A	C4D0212N - A	CA
03	02-12	1	3	C4D0312S - A	C4D0312N - A	CA
03	02-04	3	1	C4D0304S - A	C4D0304N - A	CK
04	02-12	1	4	C4D0412S - A	C4D0412N - A	CA
04	02-06	2	2	C4D0406S - A	C4D0406N - A	CH
05	02-12	1	5	C4D0512S - A	C4D0512N - A	CA

POLES	ACTIVE POSITIONS	POLES/ DECK	NO. OF DECKS	SHORTING	NON-SHORTING	FIG. *
06	02-06	2	3	C4D0606S - A	C4D0606N - A	CH
06	02-04	3	2	C4D0604S - A	C4D0604N - A	CK
06	02-12	1	6	C4D0612S - A	C4D0612N - A	CA
08	02-06	2	4	C4D0806S - A	C4D0806N - A	CH
09	02-04	3	3	C4D0904S - A	C4D0904N - A	CK
10	02-06	2	5	C4D1006S - A	C4D1006N - A	CH
12	02-04	3	4	C4D1204S - A	C4D1204N - A	CK
15	02-04	3	5	C4D1504S - A	C4D1504N - A	CK

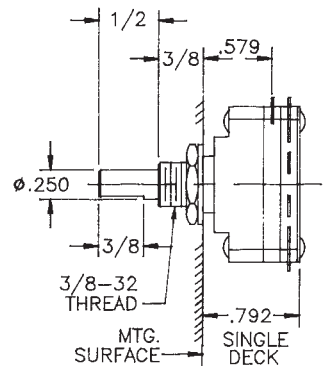
* FIGURES ARE SHOWN ON PAGE 55.

DIMENSIONS

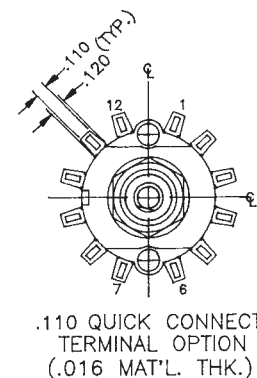
C4D STANDARD CONSTRUCTION



- NOTE:
- ONE DECK EQUALS TWO WAFERS.
 - ADD .284" FOR EACH ADDITIONAL DECK.



Q



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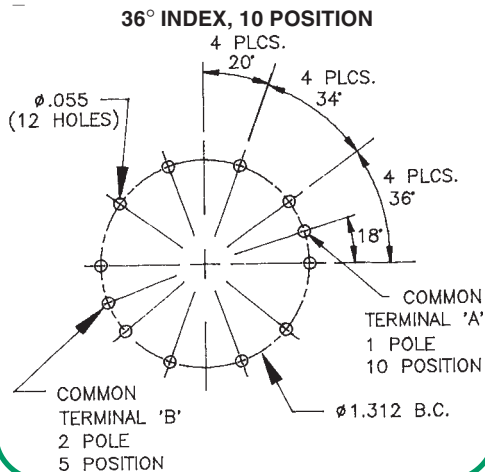
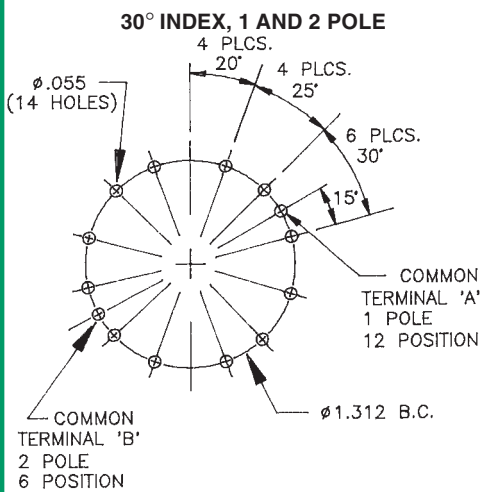
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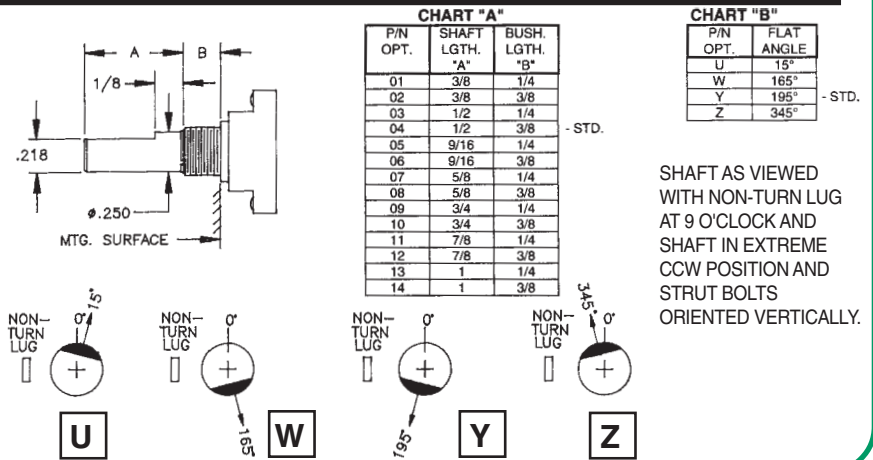
How to Order Additional Options:

2 DIGIT SERIES	INSULATION TYPE	TOTAL POLES	ACTIVE POSITIONS	CONTACT TYPE	TERMINAL TYPE	INDEX ANGLE	STOP TYPE	SHAFT/ BUSHING	SHAFT FLAT
C4	D - DIALLYL	01 - MIN.	12 - MAX @ 30° 10 - MAX @ 36° 08 - MAX @ 45° 06 - MAX @ 60° 04 - MAX @ 90°	S - SHORTING N - NON SHORTING	L - SOLDER LUG P - FRONT P.C. (NOT IN 45°) R - REAR P.C. (30° & 36° ONLY) Q - QUICK CONNECT	30° 36° 45° 60° 90°	F - FIXED A - A (30°, 60°, 90° ONLY) C - CONT.	D SEE CHART "A"	J SEE CHART "B"
CUSTOMERS SPECIFIED ORDER NUMBER FOR STANDARD OPTIONS C 4 D (SPECIFY) (SPECIFY) (SPECIFY) (SPECIFY) (SPECIFY) (SPECIFY) (SPECIFY) (SPECIFY)									

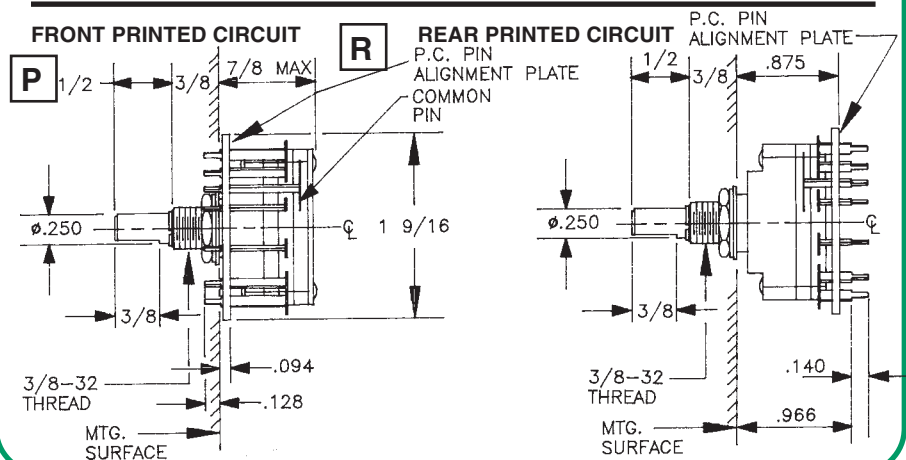
PRINTED CIRCUIT BOARD HOLE PATTERNS



SHAFT, BUSHING, AND FLAT OPTIONS



PRINTED CIRCUIT BOARD TERMINAL OPTIONS



CUSTOM SWITCHES ARE AVAILABLE. CONTACT THE FACTORY WITH YOUR COMPLETE SPECIFICATIONS.

C5/C6 - SERIES

0.92" DIAMETER

1.0 AMP @ 28 VDC

SPECIFICATIONS AND ORDERING INFORMATION

The C5 Series offers a very economical and lightweight design. Standard features include 30° indexing up to 12 positions, solder lug terminals, fixed stops, and both internal and external seals for washability.

The C6 Series offers the same features in an unsealed design.



SPECIFICATIONS

ELECTRICAL

Current and Voltage Rating: Make and break resistive load
1 amp @ 28 VDC; 1 amp @ 125 VAC.

Current Carrying Capacity: 5 amps.

Dielectric Strength: 1,000 VAC between current carrying parts and ground.

Contact Resistance: Average initial 20 milliohms.

Insulation Resistance: In excess of 10,000 megohms.

Hardware: Mounting nut and lockwasher are shipped assembled.

MECHANICAL

Materials and Finishes: All parts utilize non-corrosive materials as standard.

Terminals and Contacts: Brass with silver plate as standard.

Insulation: Polyester.

Index: Molded live spring detent.

Index Life: 10,000 cycles minimum.

Index Torque: Switches have lowest practical torque consistent with crisp detenting and smooth, reliable operation.

Index Angles: Positive 30° standard.

Index Stops: Fixed standard, adjustable, or continuous available.

Stop Strength: 4.5 in. lbs. minimum.

STANDARD PART NUMBER

C5 - SOLDER LUG TERMINALS

SWITCHES - 30° INDEX - ADJUSTABLE STOPS - SET @ 2 POS. - SEALED

POLES	ACTIVE POSITIONS	POLES/SECTION	NO. OF SECTIONS	NON-SHORTING	FIG. *
01	02-12	1	1	C5P0112N - A	CE
02	02-06	2	1	C5P0206N - A	CJ
03	02-04	3	1	C5P0304N - A	CL
04	02-03	4	1	C5P0403N - A	CM

C5 - P.C. TERMINALS

SWITCHES - 30° INDEX - ADJUSTABLE STOPS - SET @ 2 POS. - SEALED

POLES	ACTIVE POSITIONS	POLES/SECTION	NO. OF SECTIONS	NON-SHORTING	FIG. *
01	02-12	1	1	C5P0112N - RA	CE
02	02-06	2	1	C5P0206N - RA	CJ
03	02-04	3	1	C5P0304N - RA	CL
04	02-03	4	1	C5P0403N - RA	CM

C6 - UNSEALED

01	02-12	1	1	C6P0112N - A	CE
02	02-06	2	1	C6P0206N - A	CJ
03	02-04	3	1	C6P0304N - A	CL
04	02-03	4	1	C6P0403N - A	CM

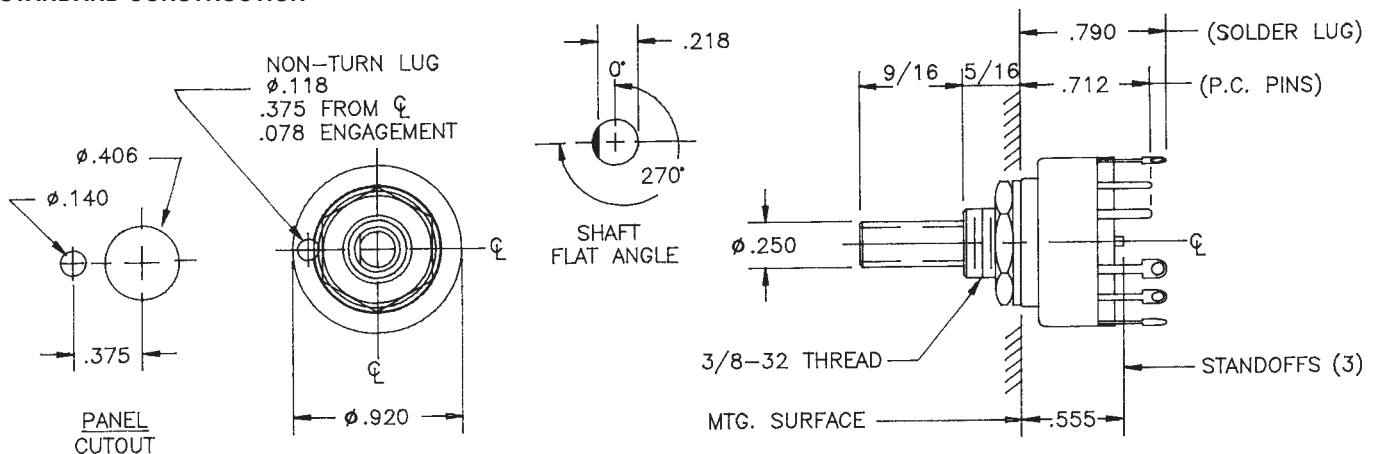
C6 - UNSEALED

01	02-12	1	1	C6P0112N - RA	CE
02	02-06	2	1	C6P0206N - RA	CJ
03	02-04	3	1	C6P0304N - RA	CL
04	02-03	4	1	C6P0403N - RA	CM

* FIGURES ARE SHOWN ON PAGE 55.

DIMENSIONS

STANDARD CONSTRUCTION



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ADDITIONAL OPTIONS AND ORDERING INFORMATION

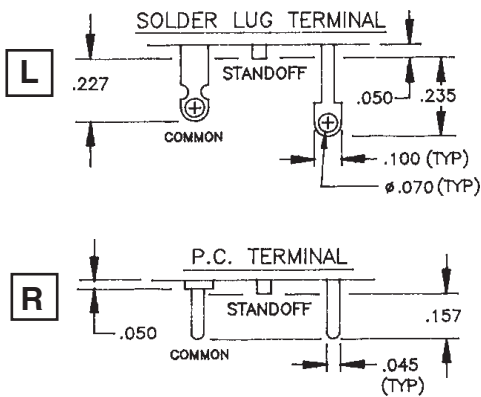
C5/C6 - SERIES

How to Order Additional Options:

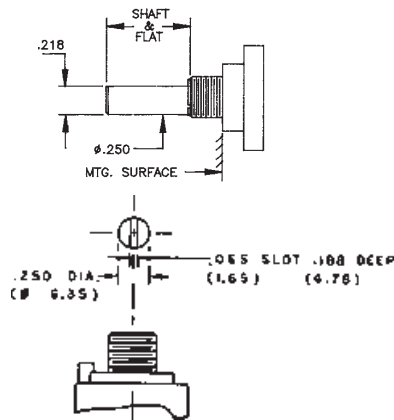
2 DIGIT SERIES	INSULATION TYPE	TOTAL POLES	ACTIVE POSITIONS	CONTACT TYPE	TERMINAL TYPE	INDEX ANGLE	STOP TYPE	SHAFT/ BUSHING	SHAFT FLAT
C5	P - POLYESTER SEALED	01	12 - MAX	N - NON - SHORTING	L - SOLDER LUG R - REAR P.C.		F - FIXED A - ADJ. C - CONT.	SEE CHART "A"	SEE CHART "B"
		02	06 - MAX						
		03	04 - MAX						
		04	03 - MAX						
C6	P - POLYESTER UNSEALED	01	12 - MAX	N - NON - SHORTING					
		02	06 - MAX						
		03	04 - MAX						
		04	03 - MAX						

CUSTOMERS SPECIFIED ORDER NUMBER FOR STANDARD OPTIONS				ADDITIONAL OPTIONS		
		P				
		(SPECIFY)	(SPECIFY)		(SPECIFY)	(SPECIFY)

TERMINAL TYPES



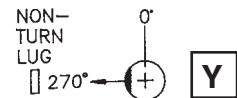
SHAFT AND FLAT OPTIONS



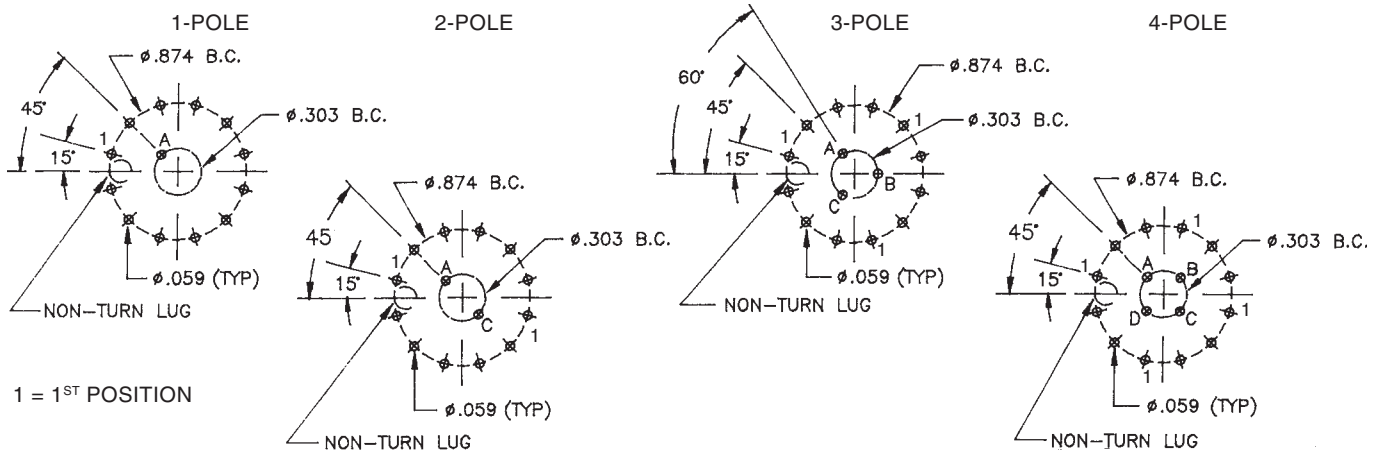
P/N OPT.	SHAFT & FLAT LGTH.
01	1/4
02	5/16
03	3/8
04	7/16
05	1/2
06	9/16
07	5/8
08	11/16
09	3/4
10	13/16
11	7/8
12	15/16
13	1
14	1 1/2
15	SLOTTED

P/N OPT.	FLAT ANGLE
B	ROUND
Y	270°

- STD. SHAFT AS VIEWED WITH NON-TURN LUG AT 9 O'CLOCK AND SHAFT IN EXTREME CCW POSITION.



PRINTED CIRCUIT BOARD TERMINAL PATTERNS



CUSTOM SWITCHES ARE AVAILABLE. CONTACT THE FACTORY WITH YOUR COMPLETE SPECIFICATIONS.

C7 - SERIES

SPECIFICATIONS AND ORDERING INFORMATION

2 1/32" DIAMETER 1.0 AMP @ 28 VDC

The C7 Series provides a fully enclosed, modular design that enables switching up to 24 positions. Our standard design offers 15° indexing, and solder lug terminals.



SPECIFICATIONS

ELECTRICAL

Current and Voltage Rating: Make and break resistive load 1.0 amp @ 28 VDC; 0.5 amp @ 125 VAC.
Current Carrying Capacity: 25 amps.
Dielectric Strength: 1,000 VAC between current carrying parts and ground.
Contact Resistance: Average initial 3 milliohms.
Insulation Resistance: In excess of 10,000 megohms.

Hardware: Mounting nut and lockwasher are shipped assembled.

MECHANICAL

Materials and Finishes: All parts utilize non-corrosive materials as standard.
Terminals and Contacts: Brass with silver plate as standard.
Insulation: Diallyl phthalate.
Index: Single-ball, hill and valley.
Index Life: 25,000 cycles minimum.
Index Torque: Switches have lowest practical torque consistent with crisp detenting and smooth, reliable operation.
Index Angles: 15° standard, 30°, 60°, and 90° available.
Index Stops: Fixed standard, continuous, or adj. available.
Stop Strength: 25 in. lbs. minimum.

STANDARD PART NUMBER

15° INDEXING - FIXED STOPS SOLDER LUG TERMINALS

POLES	ACTIVE POSITIONS	POLES/DECK	NO. OF DECKS	SHORTING	NON-SHORTING	FIG. *
01	23	1	1	C7D0123S	C7D0123N	CF
02	23	1	2	C7D0223S	C7D0223N	CF
03	23	1	3	C7D0323S	C7D0323N	CF
04	23	1	4	C7D0423S	C7D0423N	CF

30° INDEXING

01	12	1	1	C7D0112S -30	C7D0112N -30	CA
02	12	1	2	C7D0212S -30	C7D0212N -30	CA
03	12	1	3	C7D0312S -30	C7D0312N -30	CA

15° INDEXING - CONTINUOUS ROTATION SOLDER LUG TERMINALS

POLES	ACTIVE POSITIONS	POLES/DECK	NO. OF DECKS	SHORTING	NON-SHORTING	FIG. *
01	24	1	1	C7D0124S - C	C7D0124N - C	CG
02	24	1	2	C7D0224S - C	C7D0224N - C	CG
03	24	1	3	C7D0324S - C	C7D0324N - C	CG
04	24	1	4	C7D0424S - C	C7D0424N - C	CG

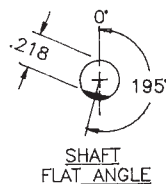
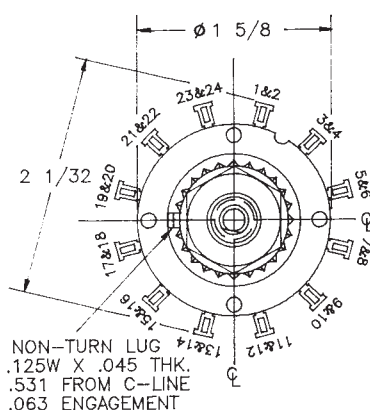
30° INDEXING

01	12	1	1	C7D0112S -30C	C7D0112N -30C	CA
02	12	1	2	C7D0212S -30C	C7D0212N -30C	CA
03	12	1	3	C7D0312S -30C	C7D0312N -30C	CA

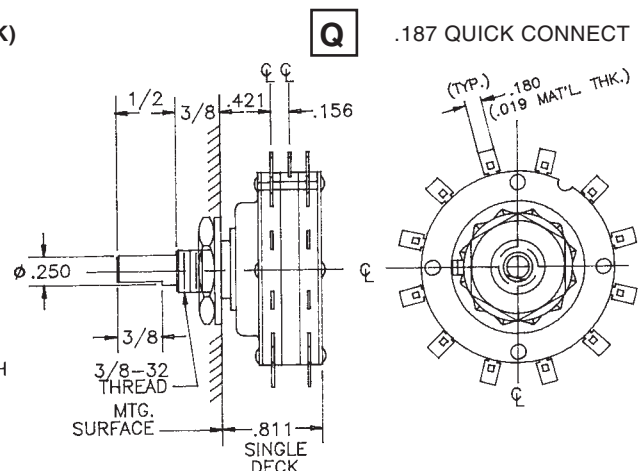
* FIGURES ARE SHOWN ON PAGE 55.

DIMENSIONS

STANDARD CONSTRUCTION - 15° INDEX ANGLE (3 WAFER DECK)



NOTE:
 1. ONE DECK EQUALS THREE WAFERS.
 2. ADD .468" FOR EACH ADDITIONAL DECK.

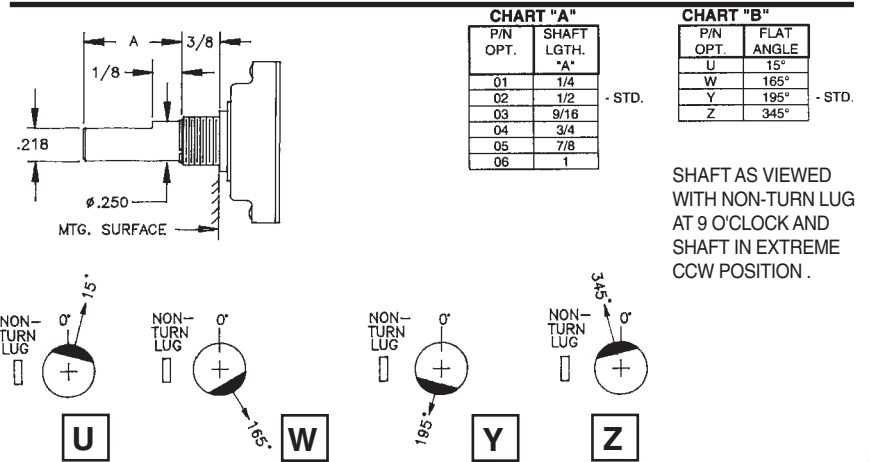


How to Order Additional Options:

2 DIGIT SERIES	INSULATION TYPE	TOTAL POLES	ACTIVE POSITIONS	CONTACT TYPE	TERMINAL TYPE	INDEX ANGLE	STOP TYPE	SHAFT/ BUSHING	SHAFT FLAT
C7	D - DIALLYL	01 - MIN.	24 - MAX @ 15°	S - SHORTING N - NON SHORTING	L - SOLDER LUG Q - QUICK CONNECT	15°	F - FIXED 23 - POS. MAX C - CONT. 24 - POS. MAX A - Adjustable A23 - POS. MAX	SEE CHART "A"	SEE CHART "B"
C7	D - DIALLYL	01 - MIN.	12 - MAX @ 30° 06 - MAX @ 60° 04 - MAX @ 90°	S - SHORTING N - NON SHORTING	L - SOLDER LUG Q - QUICK CONNECT	30° 60° 90°			
CUSTOMERS SPECIFIED ORDER NUMBER FOR STANDARD OPTIONS					ADDITIONAL OPTIONS				
C 7	D								
		(SPECIFY)	(SPECIFY)	(SPECIFY)	(SPECIFY)	(SPECIFY)	(SPECIFY)	(SPECIFY)	(SPECIFY)

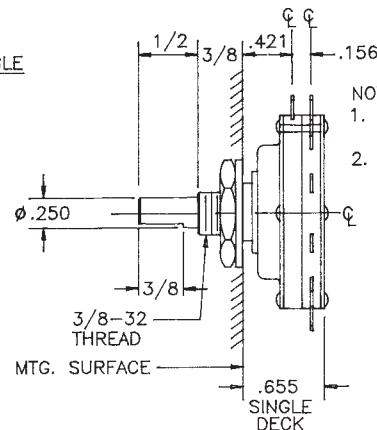
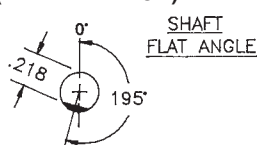
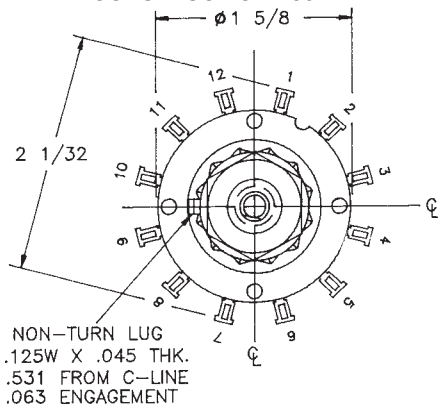
SHORTING AND
NON-SHORTING
SWITCHING IS
NOT GUARANTEED
ON THE 15° INDEXING
C7 SERIES.

SHAFT AND FLAT OPTIONS



DIMENSIONS

STANDARD CONSTRUCTION - 30° INDEX ANGLE (2 WAFER DECK)



- NOTE:
- ONE DECK EQUALS TWO WAFERS.
 - ADD .312" FOR EACH ADDITIONAL DECK.

CUSTOM SWITCHES ARE AVAILABLE. CONTACT THE FACTORY WITH YOUR COMPLETE SPECIFICATIONS.

SELECTOR GUIDE

OPEN FRAME ROTARY ELECTRONIC SWITCHES



CHARACTERISTICS

SERIES D1

SERIES D2

SERIES D3

SERIES D4

SERIES D5

SERIES D6

Page Number	18,19	20,21	22,23	24,25	26,27	28,29
Construction	OPEN	OPEN	OPEN	OPEN	OPEN	OPEN
Diameter	1.00"	1.00"	1.312"	1.437"	1.437"	1.687"
Positions	2 - 12	2 - 12	2 - 12	2 - 12	2 - 12	2 - 12
E Current and Voltage	0.25A @ 115 VAC	0.25A @ 115 VAC	0.5A @ 115 VAC	0.5A @ 115 VAC	0.5A @ 115 VAC	0.5A @ 115 VAC
L	0.55A @ 28 VDC	0.55A @ 28 VDC	1.5A @ 28 VDC	1.5A @ 28 VDC	1.5A @ 28 VDC	1.5A @ 28 VDC
E Current Carrying Capacity	7A	7A	12A	9A	9A	9A
C Dielectric Strength	750 VAC	750 VAC	1,000 VAC	1,500 VAC	1,500 VAC	1,500 VAC
T Insulation Resistance	750,000	900,000	1,000,000	1,000,000	750,000	900,000
R (megohms)						
I Contact Resistance	5	5	3.5	3.5	3.5	3.5
C (milliohms)						
A						
L						
M Insulation - Glass Epoxy	STANDARD	YES	STANDARD	STANDARD	STANDARD	YES
A Diallyl Phthalate	YES	STANDARD	YES	YES	NO	STANDARD
T Ceramic	YES	YES	YES	YES	NO	YES
E						
R						
I Contacts - Silver Alloy ★	YES	YES	STD-CERAMIC	YES	YES	YES
A Brass/Silver Plate	STANDARD	STANDARD	STD-GLASS	STANDARD	STANDARD	STANDARD
L						
M Stop Strength	10 in. lb.	10 in. lb.	25 in. lb.	10 in. lb.	25 in. lb.	25 in. lb.
E Mechanical Life	25,000 cycles	25,000 cycles	25,000 cycles	25,000 cycles	25,000 cycles	25,000 cycles
C Detenting Angles:						
H						
A 30°	30	30	30	30	30	30
N 36°	36	36	—	—	—	36
I 45°	45	45	—	—	—	45
C 60°	—	60	60	60	—	60
A						
L						
O Quick Connect	NO	NO	NO	NO	NO	NO
P Rear PC Mount	YES	YES	YES	YES	YES	YES
T Vertical PC Mount ★	YES	YES	NO	NO	NO	NO
I Front PC Mount ★	YES	YES	YES	YES	YES	YES
O Dual Concentric Designs ★	YES	YES	YES	YES	NO	NO
N Keylock ★	YES	YES	YES	YES	YES	YES
S Spring Return ★	NO	NO	NO	NO	NO	NO
Water Resistant Seals ★	YES	YES	YES	YES	YES	YES
Originally Designed To Meet Mil 3786/	SR05	N/A	SR03	SR02	N/A	N/A

★ Contact factory



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SELECTOR GUIDE

OPEN FRAME ROTARY ELECTRONIC SWITCHES



CHARACTERISTICS



SERIES D7

SERIES D8

SERIES D9

Page Number	30,31	32,33	34,35
Construction	OPEN	OPEN	OPEN
Diameter	1.875"	2.312"	2.312"
Positions	2 - 12	2 - 18	2 - 24
E Current and Voltage	1.0A @ 115 VAC	1.0A @ 115 VAC	0.25A @ 115 VAC
L	2.25A @ 28 VDC	2.25A @ 28 VDC	1.5A @ 28 VDC
E Current Carrying Capacity	9A	9A	9A
C Dielectric Strength	1,500 VAC	1,000 VAC	1,000 VAC
T Insulation Resistance	750 ,000	750,000	750 ,000
R (megohms)			
I Contact Resistance	3.5	5	5
C (milliohms)			
A			
L			
M Insulation - Glass Epoxy	STANDARD	STANDARD	STANDARD
A Diallyl Phthalate	NO	NO	NO
T Ceramic	YES	NO	NO
E			
R			
I Contacts - Silver Alloy ★	YES	YES	YES
A Brass/Silver Plate	STANDARD	STANDARD	STANDARD
L			
M Stop Strength	25 in. lb.	25 in. lb.	25 in. lb.
E Mechanical Life	25,000 cycles	25,000 cycles	25,000 cycles
C Detenting Angles: 15°	—	—	15
H 20°	—	20	—
A 22.5°	—	—	—
N 30°	30	—	—
I 36°	—	—	—
C 45°	—	—	—
A 60°	60	—	—
L			
O Quick Connect	NO	NO	NO
P Rear PC Mount	NO	NO	YES
T Vertical PC Mount ★	NO	NO	NO
I Front PC Mount ★	NO	NO	NO
O Dual Concentric Designs ★	YES	YES	YES
N Keylock ★	YES	YES	YES
S Spring Return ★	NO	NO	NO
Water Resistant Seals ★	YES	YES	YES
Originally Designed To Meet Mil 3786/	N/A	N/A	N/A

Also see our “E” Series section for specialty open frame switches on pages 37 thru 43.

Use the open frame worksheet on page 45 for custom designs.

D

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D1 - SERIES

SPECIFICATIONS AND ORDERING INFORMATION

1" DIAMETER 0.55 AMP @ 28 VDC

This 1" diameter switch offers a unique lateral thrust index with exceptionally crisp torque. The D1 Series was originally designed to meet the size requirements of MIL-S-3786 style SR05. The 30° index and glass epoxy insulation are standard and several options are available including rear printed circuit terminals.



SPECIFICATIONS

ELECTRICAL

Current and Voltage Rating: Make and break resistive load
0.55 amp @ 28 VDC; 0.25 amp @ 115 VAC.

Current Carrying Capacity: 7 amps.

Dielectric Strength: 750 VAC between current carrying parts and ground.

Contact Resistance: Average initial 5 milliohms.

Insulation Resistance: Diallyl in excess of 900,000 megohms.
Glass in excess of 750,000 megohms.
Ceramic in excess of 1,000,000 megohms.

Hardware: Mounting nut and lockwasher are shipped assembled.

MECHANICAL

Materials and Finishes: All parts utilize non-corrosive materials as standard.

Clips and Rotors: Brass with silver plate as standard.

Insulation: Glass, diallyl phthalate, or ceramic.

Index: Dual-ball, side thrust design.

Index Life: 25,000 cycles minimum.

Index Torque: Switches have lowest practical torque consistent with crisp detenting and smooth, reliable operation.

Index Angle: Positive 30° standard, 36°, and 45° available.

Index Stops: Fixed or Continuous available.

Stop Strength: 10 in. lbs. minimum.

STANDARD PART NO.

EPOXY GLASS INSULATION

SWITCHES - SOLDER LUG TERMINALS - 30° INDEX

POLES	ACTIVE POSITIONS	POLES/SECTION	NO. OF SECTIONS	SHORTING	NON-SHORTING	FIG. *
01	02-12	1	1	D1G0112S-F	D1G0112N-F	DE
02	02-12	1	2	D1G0212S-F	D1G0212N-F	DE
02	02-06	2	1	D1G0206S-F	D1G0206N-F	DL
03	02-12	1	3	D1G0312S-F	D1G0312N-F	DE
03	02-05	3	1	D1G0305S-F	D1G0305N-F	DO
04	02-06	2	2	D1G0406S-F	D1G0406N-F	DL
06	02-06	2	3	D1G0606S-F	D1G0606N-F	DL
06	02-05	3	2	D1G0605S-F	D1G0605N-F	DO

CERAMIC INSULATION

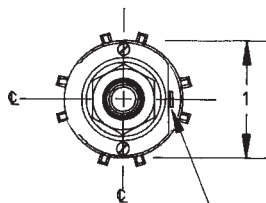
SWITCHES - SOLDER LUG TERMINALS - 30° INDEX

POLES	ACTIVE POSITIONS	POLES/SECTION	NO. OF SECTIONS	SHORTING	NON-SHORTING	FIG. *
01	02-11	1	1	D1C0111S-F	D1C0111N-F	DB
02	02-11	1	2	D1C0211S-F	D1C0211N-F	DB
02	02-05	2	1	D1C0205S-F	D1C0205N-F	DG
03	02-11	1	3	D1C0311S-F	D1C0311N-F	DB
03	02-03	3	1	D1C0303S-F	D1C0303N-F	DN
04	02-05	2	2	D1C0405S-F	D1C0405N-F	DG
06	02-05	2	3	D1C0605S-F	D1C0605N-F	DG
06	02-03	3	2	D1C0603S-F	D1C0603N-F	DN

* FIGURES ARE SHOWN ON PAGES 55 AND 56.

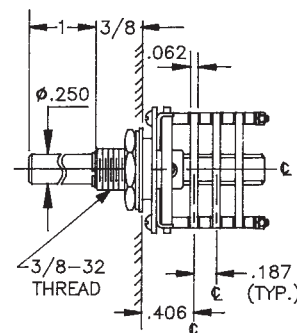
DIMENSIONS

STANDARD CONSTRUCTION

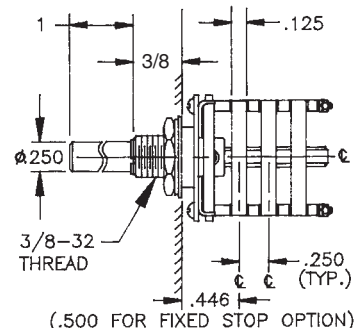


NON-TURN LUG
.125W X .035 THK.
.375 FROM C
.063 ENGAGEMENT

D1G - STANDARD GLASS EPOXY CONSTRUCTION



D1C CERAMIC INSULATION



2 DIGIT SERIES	INSULATION TYPE	TOTAL POLES	ACTIVE POSITIONS	CONTACT TYPE	TERMINAL TYPE	INDEX ANGLE	STOP TYPE	SHAFT/BUSHING	SHAFT FLAT
D1	G - GLASS (30°,36°,45°) D - DIALLYL (30°,45°)	01 - MIN.	12 - MAX @ 30° 10 - MAX @ 36° 08 - MAX @ 45°	S - SHORTING N - NON-SHORTING	L - SOLDER LUG R - (REAR P.C. NOT CERAMIC)	30° 36° 45°	F - FIXED (7-POS MAX @45°) C - CONT.	SEE CHART "A"	SEE CHART "B"
D1	C - CERAMIC	01 - MIN.	11 - MAX @ 30°	S - SHORTING N - NON-SHORTING	L - SOLDER LUG	30°	F - FIXED C - CONT.		

CUSTOMERS SPECIFIED ORDER NUMBER FOR STANDARD OPTIONS

D	1											
			(SPECIFY)	(SPECIFY)	(SPECIFY)	(SPECIFY)	(SPECIFY)	(SPECIFY)	(SPECIFY)	(SPECIFY)	(SPECIFY)	(SPECIFY)

ADDITIONAL OPTIONS

CHART "A"

P/N OPT.	SHAFT LGTH. "A"	BUSH. LGTH. "B"
01	3/8	1/4
02	3/8	3/8
03	1/2	1/4
04	1/2	3/8
05	9/16	1/4
06	9/16	3/8
07	5/8	1/4
08	5/8	3/8
09	3/4	1/4
10	3/4	3/8
11	7/8	1/4
12	7/8	3/8
13	1	1/4
14	1	3/8

CHART "B"

P/N OPT.	FLAT ANGLE
B	ROUND
U	15°
W	185°
Y	195°
Z	345°

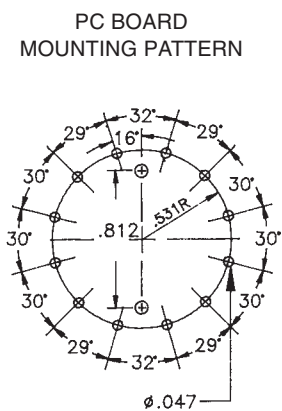
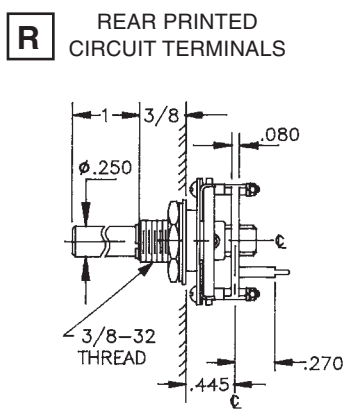
SHAFT AS VIEWED WITH NON-TURN LUG AT 9 O'CLOCK AND SHAFT IN EXTREME CCW POSITION AND STRUT BOLTS ORIENTED VERTICALLY.

D1G - STD.

D1D
DIALLYL PHTHALATE INSULATION

Technical drawing showing a cross-section of a bolted assembly. The drawing includes the following dimensions and labels:

- 1**: Dimension across the top of the assembly.
- 3/8**: Dimension across the top of the assembly.
- .080**: Dimension across the top of the assembly.
- 3/8-32 THREAD**: Label for the bolt.
- MTG. SURFACE**: Label for the mounting surface.
- Ø .250**: Dimension across the bolt.
- .812**: Dimension across the nut.
- .234 (TYP.)**: Dimension across the nut.
- .445**: Dimension across the nut.



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19

D2 - SERIES

1" DIAMETER 0.55 AMP @ 28 VDC

SPECIFICATIONS AND ORDERING INFORMATION

The D2 Series switch is used where space is at a premium. This dual-ball side thrust index offers exceptional torque control and is available in 30°, 36°, 45°, and 60° angles. Standard designs utilize diallyl phthalate or ceramic insulation, solder lug terminals, and 30° adjustable stop indexing.



SPECIFICATIONS

ELECTRICAL

Current and Voltage Rating: Make and break resistive load
0.55 amp @ 28 VDC; 0.25 amp @ 115 VAC.

Current Carrying Capacity: 7 amps.

Dielectric Strength: 750 VAC between current carrying parts and ground.

Contact Resistance: Average initial 5 milliohms.

Insulation Resistance: Diallyl in excess of 900,000 megohms.
Glass in excess of 750,000 megohms.
Ceramic in excess of 1,000,000 megohms.

Hardware: Mounting nut and lockwasher are shipped assembled.

MECHANICAL

Materials and Finishes: All parts utilize non-corrosive materials as standard.

Clips and Rotors: Brass with silver plate as standard.

Insulation: Diallyl phthalate, glass, or ceramic.

Index: Dual-ball, side thrust design.

Index Life: 25,000 cycles minimum.

Index Torque: Switches have lowest practical torque consistent with crisp detenting and smooth, reliable operation.

Index Angles: Positive 30° standard, 36°, 45°, and 60° available.

Index Stops: Adjustable standard, fixed or continuous.

Stop Strength: 10 in. lbs. minimum.

STANDARD PART NUMBER

DIALLYL PHTHALATE INSULATION - ADJUSTABLE STOPS

SWITCHES - SOLDER LUG TERMINALS - 30° INDEX - SET @ 2 POS.

POLES	ACTIVE POSITIONS	POLES/SECTION	NO. OF SECTIONS	SHORTING	NON-SHORTING	FIG. *
01	02-12	1	1	D2D0112S	D2D0112N	DE
02	02-06	2	1	D2D0206S	D2D0206N	DL
02	02-12	1	2	D2D0212S	D2D0212N	DE
03	02-05	3	1	D2D0305S	D2D0305N	DO
03	02-12	1	3	D2D0312S	D2D0312N	DE
04	02-06	2	2	D2D0406S	D2D0406N	DL
06	02-05	3	2	D2D0605S	D2D0605N	DO
06	02-06	2	3	D2D0606S	D2D0606N	DL

CERAMIC INSULATION - ADJUSTABLE STOPS

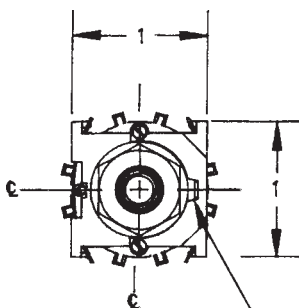
SWITCHES - SOLDER LUG TERMINALS - 30° INDEX - SET @ 2 POS. - 1/8 DIA. SHAFT

POLES	ACTIVE POSITIONS	POLES/SECTION	NO. OF SECTIONS	SHORTING	NON-SHORTING	FIG. *
01	02-11	1	1	D2C0111S	D2C0111N	DB
02	02-05	2	1	D2C0205S	D2C0205N	DG
02	02-11	1	2	D2C0211S	D2C0211N	DB
03	02-03	3	1	D2C0303S	D2C0303N	DN
03	02-11	1	3	D2C0311S	D2C0311N	DB
04	02-05	2	2	D2C0405S	D2C0405N	DG
06	02-05	2	3	D2C0605S	D2C0605N	DG
06	02-03	3	2	D2C0603S	D2C0603N	DN

* FIGURES ARE SHOWN ON PAGES 55 AND 56.

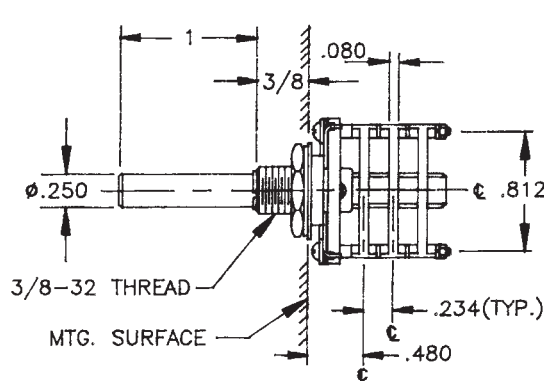
DIMENSIONS

STANDARD CONSTRUCTION

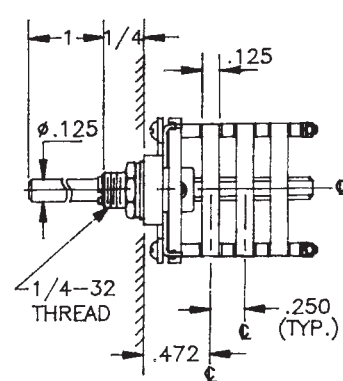


NON-TURN LUG
.125W X .035 THK.
.375 FROM ϵ
.063 ENGAGEMENT

D2D DIALLYL PHTHALATE INSULATION



D2C CERAMIC INSULATION



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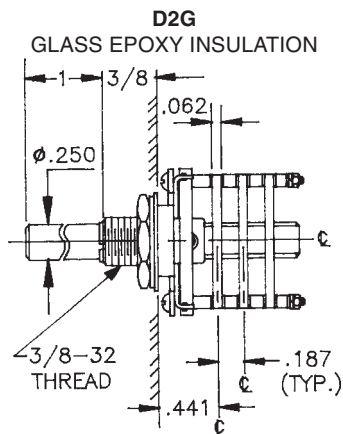
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Fax: (800) 909-9171 or (919) 833-8016

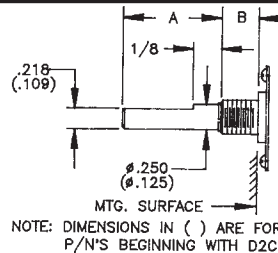
How to Order Additional Options:

2 DIGIT SERIES	INSULATION TYPE	TOTAL POLES	ACTIVE POSITIONS	CONTACT TYPE	TERMINAL TYPE	INDEX ANGLE	STOP TYPE	SHAFT/ BUSHING	SHAFT FLAT
D2	D - DIALYL (30°, 45°, 60°) G - GLASS (30°, 36°, 45°, 60°)	01 - MIN.	12 - MAX @ 30° 10 - MAX @ 36° 08 - MAX @ 45° 06 - MAX @ 60°	S - SHORTING N - NON SHORTING	L - SOLDER LUG V - VERT. P.C. 30° R - (REAR P.C. NOT CERAMIC)	30° 36° 45° 60°	A - ADJ. F - FIXED C - CONT.	SEE CHART "A"	SEE CHART "B"
D2	C - CERAMIC (30°, 60°) 1/8 SHAFT	01 - MIN.	11 - MAX @ 30°	S - SHORTING N - NON SHORTING	L - SOLDER LUG	30° 60°	A - ADJ. F - FIXED C - CONT.		
CUSTOMERS SPECIFIED ORDER NUMBER FOR STANDARD OPTIONS									
D	2								
		(SPECIFY)	(SPECIFY)	(SPECIFY)	(SPECIFY)	(SPECIFY)	(SPECIFY)	(SPECIFY)	(SPECIFY)

INSULATION OPTION



SHAFT, BUSHING, AND FLAT OPTIONS



NOTE: DIMENSIONS IN () ARE FOR P/N'S BEGINNING WITH D2C.

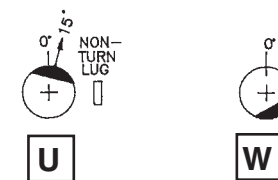


CHART "A"

P/N OPT.	SHAFT LGTH. "A"	BUSH. LGTH. "B"
01	3/8	1/4
02	3/8	3/8
03	1/2	1/4
04	1/2	3/8
05	9/16	1/4
06	9/16	3/8
07	5/8	1/4
08	5/8	3/8
09	3/4	1/4
10	3/4	3/8
11	7/8	1/4
12	7/8	3/8
13	1	1/4
14	1	3/8

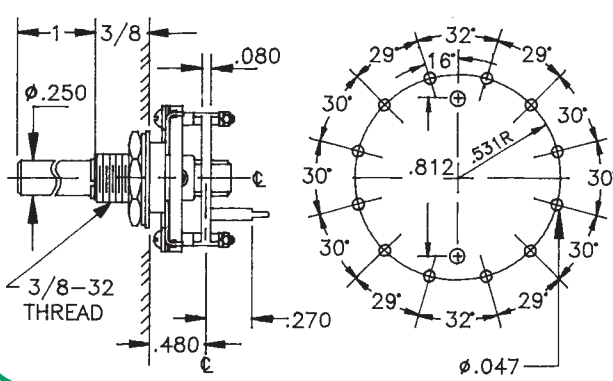
CHART "B"

P/N OPT.	FLAT ANGLE
B	ROUND
U	15°
W	165°
Y	195°
Z	345°

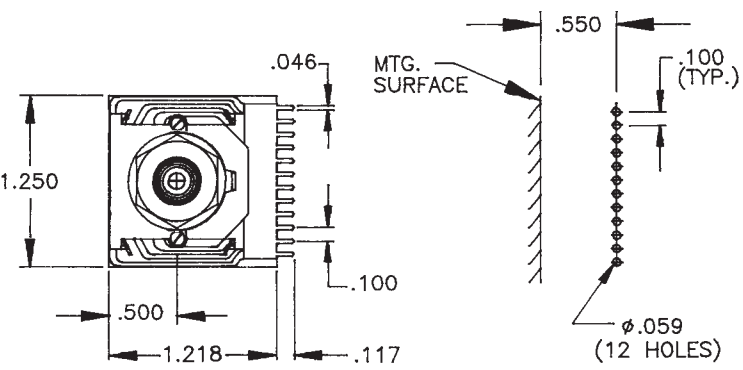
SHAFT AS VIEWED WITH NON-TURN LUG AT 3 O'CLOCK AND SHAFT IN EXTREME CCW POSITION AND STRUT BOLTS ORIENTED VERTICALLY.

PRINTED CIRCUIT BOARD TERMINAL OPTIONS

R REAR P.C. DIALYL ONLY



V VERTICAL P.C.



CUSTOM SWITCHES ARE AVAILABLE. CONTACT THE FACTORY WITH YOUR COMPLETE SPECIFICATIONS.

D3 - SERIES

SPECIFICATIONS AND ORDERING INFORMATION

1 5/16" DIAMETER 1.5 AMPS @ 28 VDC

The D3 Series was originally designed as a high quality military switch, but is ideal for use in both military and commercial equipment applications. The standard features of this hill and valley design are glass epoxy insulation and a 30° index, with options of ceramic and diallyl insulation and a 60° index.



SPECIFICATIONS

ELECTRICAL

Current and Voltage Rating: Make and break resistive load
1.5 amps @ 28 VDC; 0.5 amp @ 115 VAC.

Current Carrying Capacity: 9 amps.

Dielectric Strength: 1,000 VAC between current carrying parts and ground.

Contact Resistance: Average initial 3.5 milliohms.

Insulation Resistance: Glass in excess of 750,000 megohms.
Ceramic in excess of 1,000,000 megohms.
Diallyl in excess of 900,000 megohms.

Hardware: Mounting nut and lockwasher are shipped assembled.

MECHANICAL

Materials and Finishes: All parts utilize non-corrosive materials.

Clips and Rotors: Silver alloy standard on ceramic.

Brass with silver plate standard on glass.

Insulation: Glass epoxy, ceramic, or diallyl phthalate.

Index: Single-ball, hill and valley.

Index Life: 25,000 cycles minimum.

Index Torque: Switches have lowest practical torque consistent with crisp detenting and smooth, reliable operation.

Index Angles: Positive 30° standard, 60° available.

Index Stops: Adjustable standard, fixed or continuous.

Stop Strength: 25 in. lbs. minimum.

STANDARD PART NUMBER

EPOXY GLASS INSULATION - BRASS SILVER PLATE

SWITCHES - SOLDER LUG TERMINALS - 30° INDEX - ADJUSTABLE STOPS SET @ 2 POS.

POLES	ACTIVE POSITIONS	POLES/ SECTION	NO. OF SECTIONS	SHORTING	NON-SHORTING	FIG. *
01	02-11	1	1	D3G0111S	D3G0111N	DA
02	02-11	1	2	D3G0211S	D3G0211N	DA
02	02-05	2	1	D3G0205S	D3G0205N	DH
03	02-11	1	3	D3G0311S	D3G0311N	DA
03	02-03	3	1	D3G0303S	D3G0303N	DM
04	02-05	2	2	D3G0405S	D3G0405N	DH
06	02-03	3	2	D3G0603S	D3G0603N	DM
06	02-05	2	3	D3G0605S	D3G0605N	DH

CERAMIC INSULATION - SILVER ALLOY - 2.6 AMPS @ 28 VDC

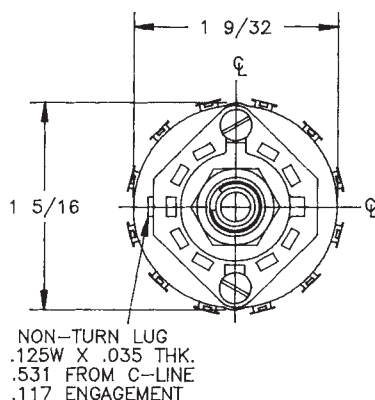
SWITCHES - SOLDER LUG TERMINALS - 30° INDEX - ADJUSTABLE STOPS SET @ 2 POS.

POLES	ACTIVE POSITIONS	POLES/ SECTION	NO. OF SECTIONS	SHORTING	NON-SHORTING	FIG. *
01	02-11	1	1	D3C0111S	D3C0111N	DA
02	02-11	1	2	D3C0211S	D3C0211N	DA
02	02-05	2	1	D3C0205S	D3C0205N	DH
03	02-11	1	3	D3C0311S	D3C0311N	DA
03	02-03	3	1	D3C0303S	D3C0303N	DM
04	02-05	2	2	D3C0405S	D3C0405N	DH
06	02-03	3	2	D3C0603S	D3C0603N	DM
06	02-05	2	3	D3C0605S	D3C0605N	DH

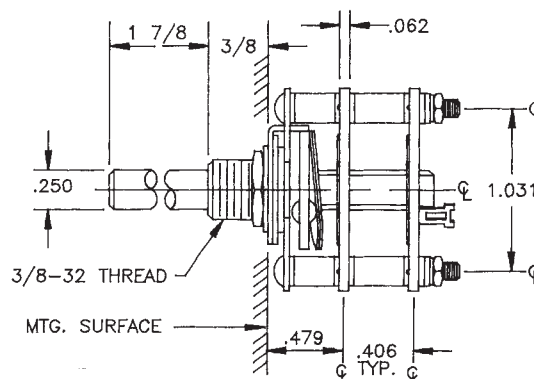
* FIGURES ARE SHOWN ON PAGES 55 AND 56.

DIMENSIONS

STANDARD CONSTRUCTION



D3G - GLASS EPOXY CONSTRUCTION



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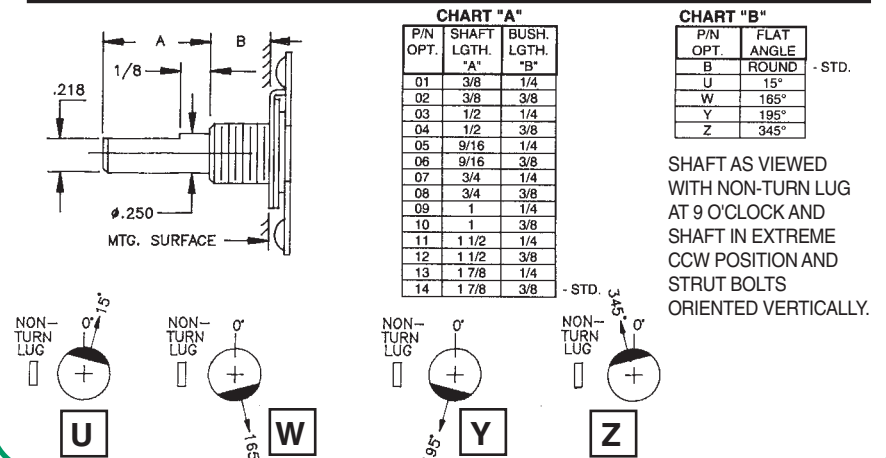
Telephone: (888) ROTARYS or (919) 833-0707
Fax: (800) 909-9171 or (919) 833-8016

How to Order Additional Options:

2 DIGIT SERIES	INSULATION TYPE	TOTAL POLES	ACTIVE POSITIONS	CONTACT TYPE	TERMINAL TYPE	INDEX ANGLE	STOP TYPE	SHAFT/ BUSHING	SHAFT FLAT
D3	G - GLASS C - CERAMIC (SILVER ALLOY) D - DIALLYL	01 - MIN.	12 - MAX @ 30° 06 - MAX @ 60°	N - NON SHORTING S - SHORTING	L - SOLDER LUG R - REAR P.C.	30° 60°	A - ADJ. F - FIXED C - CONT.	SEE CHART "A"	SEE CHART "B"

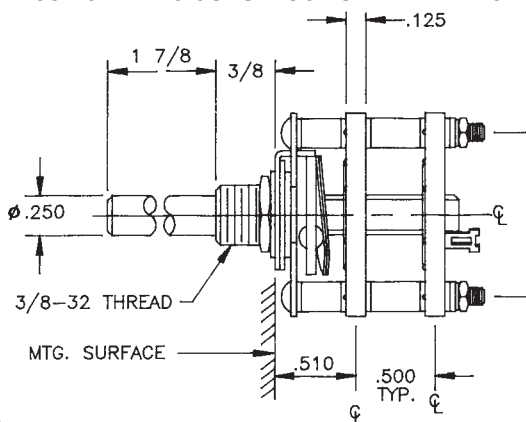
CUSTOMERS SPECIFIED ORDER NUMBER FOR STANDARD OPTIONS				ADDITIONAL OPTIONS			
D	3						
		(SPECIFY)	(SPECIFY)	(SPECIFY)	(SPECIFY)	(SPECIFY)	(SPECIFY)

SHAFT, BUSHING, AND FLAT OPTIONS

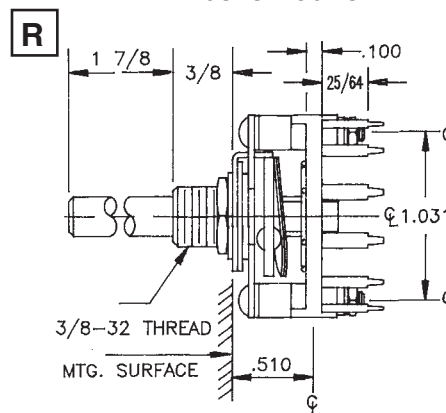


INSULATION AND PRINTED CIRCUIT BOARD TERMINAL OPTIONS

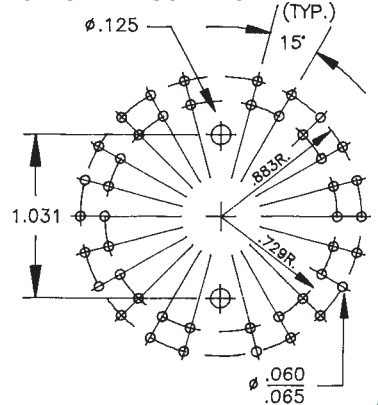
D3C - CERAMIC CONSTRUCTION



D3D - DIALLYL PHTHALATE CONSTRUCTION



P.C. BOARD MOUNTING PATTERN



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D4 - SERIES

SPECIFICATIONS AND ORDERING INFORMATION

1.437" DIAMETER 1.5 AMPS @ 28 VDC

The D4 Series switch is the most economical and versatile switch in our open frame rotary line. This series offers the quality feel of a ball and spring index mechanism and is available with up to 12 positions and 30° or 60° indexing.



SPECIFICATIONS

ELECTRICAL

Current and Voltage Rating: Make and break resistive load 1.5 amps @ 28 VDC; 0.5 amp @ 115 VAC.

Current Carrying Capacity: 9 amps.

Dielectric Strength: 1,500 VAC between current carrying parts and ground.

Contact Resistance: Average initial 3.5 milliohms.

Insulation Resistance: Glass epoxy in excess of 750,000 megohms.
Ceramic in excess of 1,000,000 megohms.
Diallyl in excess of 900,000 megohms.

Hardware: Mounting nut and lockwasher are shipped assembled.

MECHANICAL

Materials and Finishes: All parts utilize non-corrosive materials as standard.

Clips and Rotors: Brass with silver plate as standard.

Insulation: Glass epoxy, ceramic, or diallyl phthalate.

Index: Single-ball, hill and valley.

Index Life: 25,000 cycles minimum.

Index Torque: Switches have lowest practical torque consistent with crisp detenting and smooth, reliable operation.

Index Angles: Positive 30° standard, 60° available.

Index Stops: Adjustable standard, fixed or continuous.

Stop Strength: 10 in. lbs. minimum.

STANDARD PART NUMBER

GLASS EPOXY INSULATION

SWITCHES - SOLDER LUG TERMINALS - 30° INDEX - ADJUSTABLE STOPS

POLES	ACTIVE POSITIONS	POLES/SECTION	NO. OF SECTIONS	SHORTING	NON-SHORTING	FIG. *
01	02-11	1	1	D4G0111S	D4G0111N	DA
02	02-11	1	2	D4G0211S	D4G0211N	DA
02	02-05	2	1	D4G0205S	D4G0205N	DG
03	02-11	1	3	D4G0311S	D4G0311N	DA
03	02-03	3	1	D4G0303S	D4G0303N	DM
04	02-11	1	4	D4G0411S	D4G0411N	DA
04	02-05	2	2	D4G0405S	D4G0405N	DG
05	02-11	1	5	D4G0511S	D4G0511N	DA
06	02-11	1	6	D4G0611S	D4G0611N	DA
06	02-05	2	3	D4G0605S	D4G0605N	DG
06	02-03	3	2	D4G0603S	D4G0603N	DM
09	02-03	3	3	D4G0903S	D4G0903N	DM

CERAMIC INSULATION

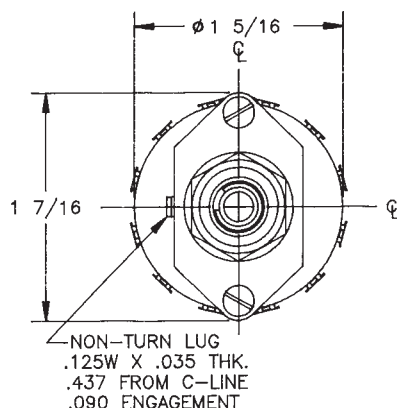
SWITCHES - SOLDER LUG TERMINALS - 30° INDEX - ADJUSTABLE STOPS

POLES	ACTIVE POSITIONS	POLES/SECTION	NO. OF SECTIONS	SHORTING	NON-SHORTING	FIG. *
01	02-12	1	1	D4C0112S	D4C0112N	DD
02	02-12	1	2	D4C0212S	D4C0212N	DD
02	02-06	2	1	D4C0206S	D4C0206N	DL
03	02-12	1	3	D4C0312S	D4C0312N	DD
03	02-05	3	1	D4C0305S	D4C0305N	DO
04	02-12	1	4	D4C0412S	D4C0412N	DD
04	02-06	2	2	D4C0406S	D4C0406N	DL
05	02-12	1	5	D4C0512S	D4C0512N	DD
05	02-03	5	1	D4C0503S	D4C0503N	DR
06	02-12	1	6	D4C0612S	D4C0612N	DD
06	02-06	2	3	D4C0606S	D4C0606N	DL
06	02-05	3	2	D4C0605S	D4C0605N	DO

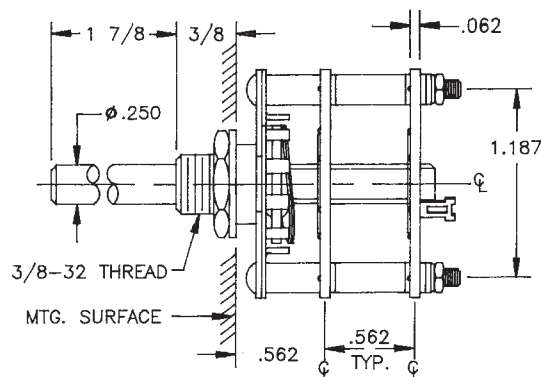
* FIGURES ARE SHOWN ON PAGES 55 AND 56.

DIMENSIONS

STANDARD CONSTRUCTION



D4G - STANDARD GLASS EPOXY CONSTRUCTION



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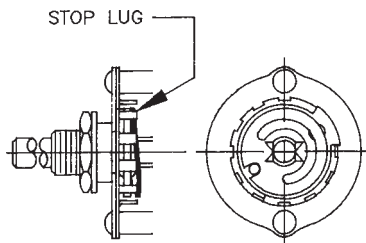
Telephone: (888) ROTARYS or (919) 833-0707
Fax: (800) 909-9171 or (919) 833-8016

How to Order Additional Options:

2 DIGIT SERIES	INSULATION TYPE	TOTAL POLES	ACTIVE POSITIONS	CONTACT TYPE	TERMINAL TYPE	INDEX ANGLE	STOP TYPE	SHAFT/ BUSHING	SHAFT FLAT
D4	G - GLASS C - CERAMIC D - DIALYL	01 - MIN.	12 - MAX @ 30° 06 - MAX @ 60°	N - NON SHORTING S - SHORTING	L - SOLDER LUG R - REAR P.C.	30° 60°	A - ADJ. F - FIXED C - CONT.	SEE CHART "A"	SEE CHART "B"

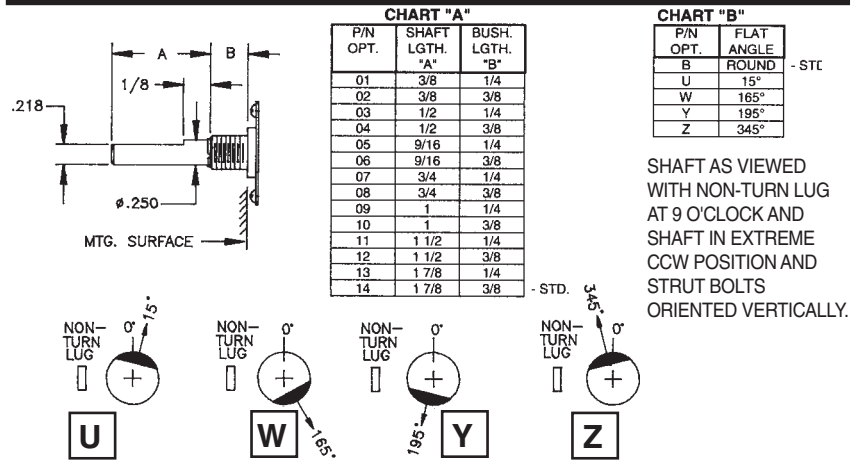
CUSTOMERS SPECIFIED ORDER NUMBER FOR STANDARD OPTIONS					ADDITIONAL OPTIONS				
D	4								
		(SPECIFY)	(SPECIFY)	(SPECIFY)	(SPECIFY)	(SPECIFY)	(SPECIFY)	(SPECIFY)	(SPECIFY)

ADJUSTABLE STOP MECHANISM



REMOVE STOP LUGS TO ACHIEVE MORE POSITIONS.

SHAFT, BUSHING, AND FLAT OPTIONS

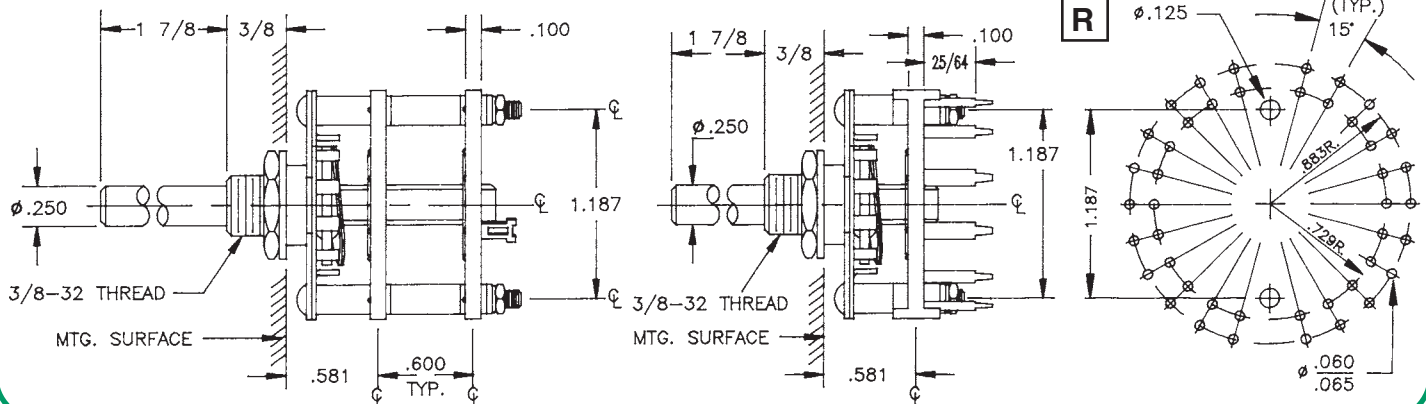


INSULATION AND PRINTED CIRCUIT BOARD TERMINAL OPTIONS

D4C - CERAMIC CONSTRUCTION

D4D - DIALYL PHTHALATE CONSTRUCTION

DIALYL PHTHALATE P.C. BOARD MOUNTING PATTERN



CUSTOM SWITCHES ARE AVAILABLE. CONTACT THE FACTORY WITH YOUR COMPLETE SPECIFICATIONS.

D5 - SERIES

SPECIFICATIONS AND ORDERING INFORMATION

1.437" DIAMETER 1.5 AMPS @ 28 VDC

The D5 Series switch is an economical single section switch utilizing glass epoxy insulation, staked construction, and printed circuit board or solder lug terminals. The formed spring index uses a small face plate area with detenting available up to 12 positions.



SPECIFICATIONS

ELECTRICAL

Current and Voltage Rating: Make and break resistive load 1.5 amps @ 28 VDC; 0.5 amp @ 115 VAC.
Current Carrying Capacity: 9 amps.
Dielectric Strength: 1,500 VAC between current carrying parts and ground.
Contact Resistance: Average initial 3.5 milliohms.
Insulation Resistance: In excess of 750,000 megohms.

Hardware: Mounting nut and lockwasher are shipped assembled.

MECHANICAL

Materials and Finishes: All parts utilize non-corrosive materials as standard.
Clips and Rotors: Brass with silver plate as standard.
Insulation: Glass epoxy.
Index: Formed spring, hill and valley design.
Index Life: 25,000 cycles minimum.
Index Torque: Switches have lowest practical torque consistent with crisp detenting and smooth, reliable operation.
Index Angles: Positive 30° standard.
Index Stops: Fixed or continuous.
Stop Strength: 25 in. lbs. minimum.

STANDARD PART NUMBER

SOLDER LUG TERMINALS

SWITCHES - 30° INDEXING - FIXED STOPS

ACTIVE POLES	POLES/ POSITIONS	POLES/ SECTION	NO. OF SECTIONS	SHORTING	NON- SHORTING	FIG. ★
01	06	1	1	D5G0106S	D5G0106N	DB
01	08	1	1	D5G0108S	D5G0108N	DB
01	10	1	1	D5G0110S	D5G0110N	DB
01	11	1	1	D5G0111S	D5G0111N	DB
02	04	2	1	D5G0204S	D5G0204N	DG
02	05	2	1	D5G0205S	D5G0205N	DG
03	03	3	1	D5G0303S	D5G0303N	DN

PRINTED CIRCUIT BOARD TERMINALS

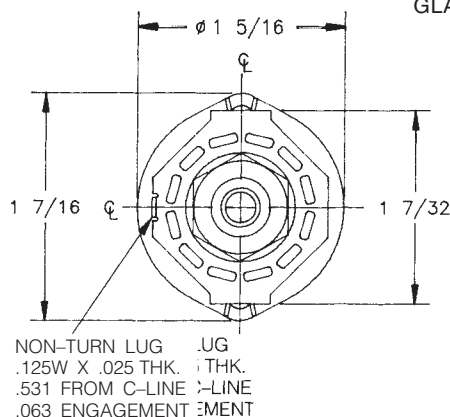
SWITCHES - 30° INDEXING - FIXED STOPS

ACTIVE POLES	POLES/ POSITIONS	POLES/ SECTION	NO. OF SECTIONS	SHORTING	NON- SHORTING	FIG. ★
01	06	1	1	D5G0106S - R	D5G0106N - R	DB
01	08	1	1	D5G0108S - R	D5G0108N - R	DB
01	10	1	1	D5G0110S - R	D5G0110N - R	DB
01	11	1	1	D5G0111S - R	D5G0111N - R	DB
02	04	2	1	D5G0204S - R	D5G0204N - R	DG
02	05	2	1	D5G0205S - R	D5G0205N - R	DG
03	03	3	1	D5G0303S - R	D5G0303N - R	DN

* FIGURES ARE SHOWN ON PAGES 55 AND 56.

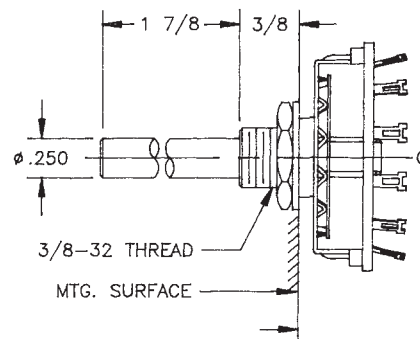
DIMENSIONS

STANDARD CONSTRUCTION



D5G

GLASS EPOXY CONSTRUCTION



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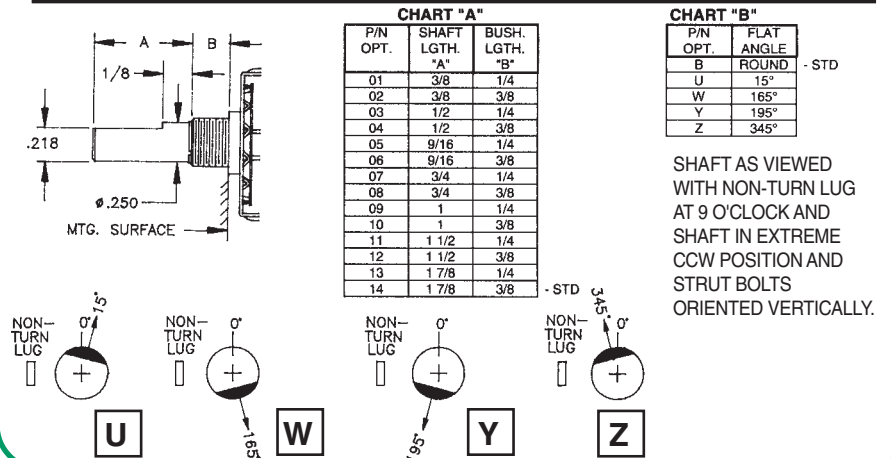
Telephone: (888) ROTARYS or (919) 833-0707
 Fax: (800) 909-9171 or (919) 833-8016

How to Order Additional Options:

2 DIGIT SERIES	INSULATION TYPE	TOTAL POLES	ACTIVE POSITIONS	CONTACT TYPE	TERMINAL TYPE	INDEX ANGLE	STOP TYPE	SHAFT/ BUSHING	SHAFT FLAT
D5	G - GLASS	01 - MIN.	12 - MAX @ 30°	S - SHORTING N - NON SHORTING	L - SOLDER LUG R - REAR P.C.		F - FIXED C - CONT.	SEE CHART "A"	SEE CHART "B"

CUSTOMERS SPECIFIED ORDER NUMBER FOR STANDARD OPTIONS					ADDITIONAL OPTIONS				
D	5	G							
			(SPECIFY)	(SPECIFY)	(SPECIFY)	(SPECIFY)	(SPECIFY)	(SPECIFY)	(SPECIFY)

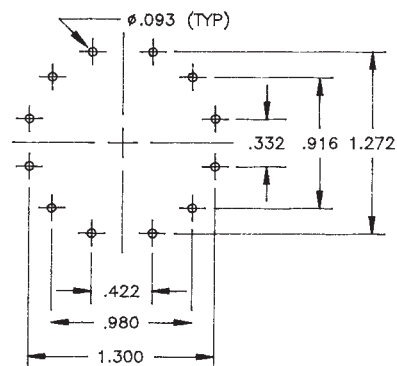
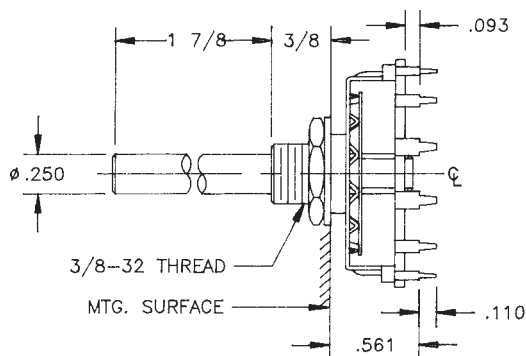
SHAFT, BUSHING, AND FLAT OPTIONS



PRINTED CIRCUIT BOARD OPTIONS

R

P.C. BOARD MOUNTING PATTERN



CUSTOM SWITCHES ARE AVAILABLE. CONTACT THE FACTORY WITH YOUR COMPLETE SPECIFICATIONS.

D6 - SERIES

SPECIFICATIONS AND ORDERING INFORMATION

1.687" DIAMETER 1.5 AMPS @ 28 VDC

The D6 Series is one of our more versatile rotary switches. A 30° index angle, solder lug terminals, and diallyl phthalate insulation are standard. However, additional indexes of 36°, 45°, and 60° and insulation sections of glass epoxy and ceramic are available. Adjustable stops are available on indexes of 30° and 60°.



SPECIFICATIONS

ELECTRICAL

Current and Voltage Rating: Make and break resistive load
1.5 amps @ 28 VDC; 0.5 amp @ 115 VAC.

Current Carrying Capacity: 9 amps.

Dielectric Strength: 1,500 VAC between current carrying parts and ground.

Contact Resistance: Average initial 3.5 milliohms.

Insulation Resistance: Diallyl in excess of 900,000 megohms
Glass in excess of 750,000 megohms.
Ceramic in excess of 1,000,000 megohms.

Hardware: Mounting nut and lockwasher are shipped assembled.

MECHANICAL

Materials and Finishes: All parts utilize non-corrosive materials as standard.

Clips and Rotors: Brass with silver plate as standard.

Insulation: Diallyl phthalate, glass, or ceramic.

Index: Dual-ball, side thrust design.

Index Life: 25,000 cycles minimum.

Index Torque: Switches have lowest practical torque consistent with crisp detenting and smooth, reliable operation.

Index Angles: Positive 30° standard, 36°, 45°, and 60° available.

Index Stops: Adjustable standard, fixed or continuous.

Stop Strength: 25 in. lbs. minimum.

STANDARD PART NUMBER

DIALLYL PHTHALATE INSULATION

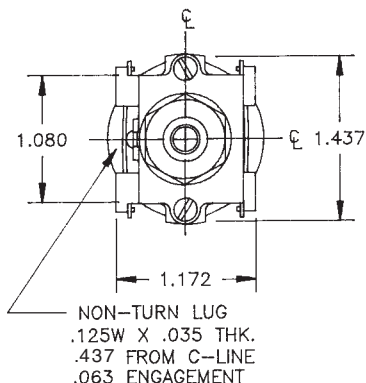
SWITCHES - 30° INDEX - ADJUSTABLE STOPS - SOLDER LUG TERMINALS

POLES	ACTIVE POSITIONS	POLES/ SECTION	NO. OF SECTIONS	SHORTING	NON-SHORTING	FIG. *
01	02-12	1	1	D6D0112S	D6D0112N	DD
02	02-12	1	2	D6D0212S	D6D0212N	DD
02	02-06	2	1	D6D0206S	D6D0206N	DL
03	02-12	1	3	D6D0312S	D6D0312N	DD
03	02-05	3	1	D6D0305S	D6D0305N	DO
04	02-12	1	4	D6D0412S	D6D0412N	DD
04	02-06	2	2	D6D0406S	D6D0406N	DL
05	02-12	1	5	D6D0512S	D6D0512N	DD
POLES	ACTIVE POSITIONS	POLES/ SECTION	NO. OF SECTIONS	SHORTING	NON-SHORTING	FIG. *
05	02-03	5	1	D6D0503S	D6D0503N	DR
06	02-12	1	6	D6D0612S	D6D0612N	DD
06	02-06	2	3	D6D0606S	D6D0606N	DL
06	02-05	3	2	D6D0605S	D6D0605N	DO
08	02-06	2	4	D6D0806S	D6D0806N	DL
09	02-05	3	3	D6D0905S	D6D0905N	DO
10	02-03	5	2	D6D1003S	D6D1003N	DR
10	02-06	2	5	D6D1006S	D6D1006N	DL

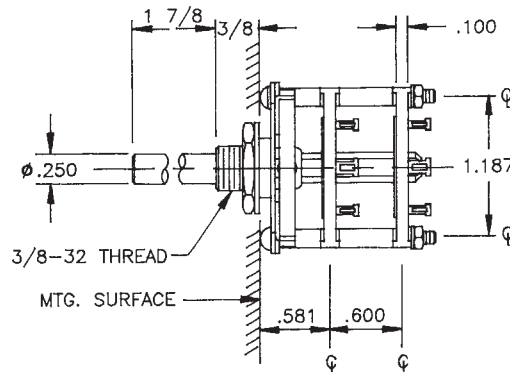
* FIGURES ARE SHOWN ON PAGES 55 AND 56.

DIMENSIONS

STANDARD CONSTRUCTION



D6D - DIALLYL PHTHALATE CONSTRUCTION



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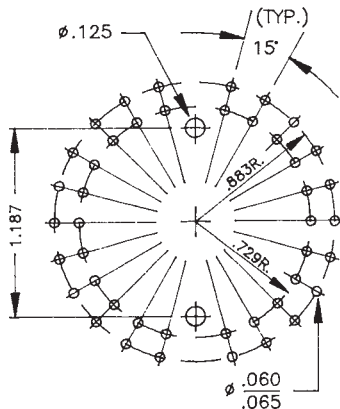
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Fax: (800) 909-9171 or (919) 833-8016

How to Order Additional Options:

2 DIGIT SERIES	INSULATION TYPE	TOTAL POLES	ACTIVE POSITIONS	CONTACT TYPE	TERMINAL TYPE	INDEX ANGLE	STOP TYPE	SHAFT/ BUSHING	SHAFT FLAT
D6	D - DIALYL (30°, 45°, 60°) G - GLASS (30°, 36°, 45°, 60°)	01 - MIN.	12 - MAX @ 30° 10 - MAX @ 36° 08 - MAX @ 45° 06 - MAX @ 60°	S - SHORTING N - NON SHORTING	L - SOLDER LUG R - REAR P.C. (NO 36°)	30° 36° 45° 60°	A - ADJ. (30°, 60° ONLY) F - FIXED C - CONT.	SEE CHART "A"	SEE CHART "B"
D6	C - CERAMIC (30°, 60°)	01 - MIN.	12 - MAX @ 30° 06 - MAX @ 60°	S - SHORTING N - NON SHORTING	L - SOLDER LUG	30° 60°	A - ADJ. F - FIXED C - CONT.		

CUSTOMERS SPECIFIED ORDER NUMBER FOR STANDARD OPTIONS					ADDITIONAL OPTIONS				
D	6								
		(SPECIFY)	(SPECIFY)	(SPECIFY)	(SPECIFY)	(SPECIFY)	(SPECIFY)	(SPECIFY)	(SPECIFY)

PRINTED BOARD MOUNTING PATTERN



SHAFT, BUSHING, AND FLAT OPTIONS

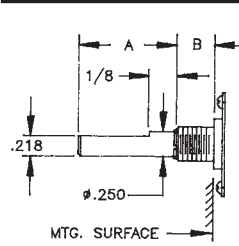


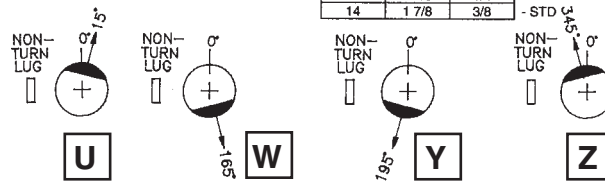
CHART "A"

P/N OPT.	SHAFT LGTH. "A"	BUSH. LGTH. "B"
01	3/8	1/4
02	3/8	3/8
03	1/2	1/4
04	1/2	3/8
05	9/16	1/4
06	9/16	3/8
07	3/4	1/4
08	3/4	3/8
09	1	1/4
10	1	3/8
11	1 1/2	1/4
12	1 1/2	3/8
13	1 7/8	1/4
14	1 7/8	3/8

CHART "B"

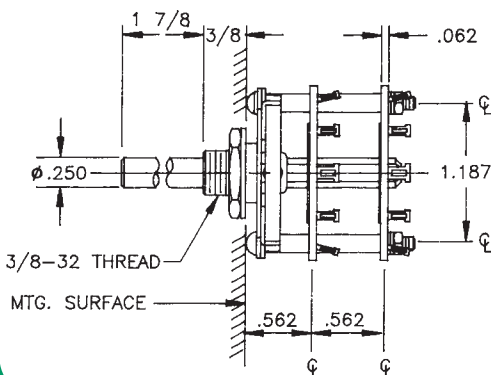
P/N OPT.	FLAT ANGLE
B	ROUND
U	15°
W	165°
Y	195°
Z	345°

SHAFT AS VIEWED WITH NON-TURN LUG AT 9 O'CLOCK AND SHAFT IN EXTREME CCW POSITION AND STRUT BOLTS ORIENTED VERTICALLY.

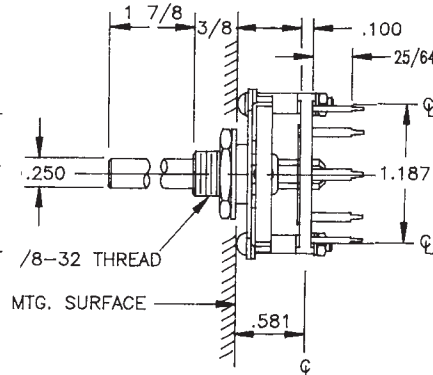


INSULATION OPTIONS

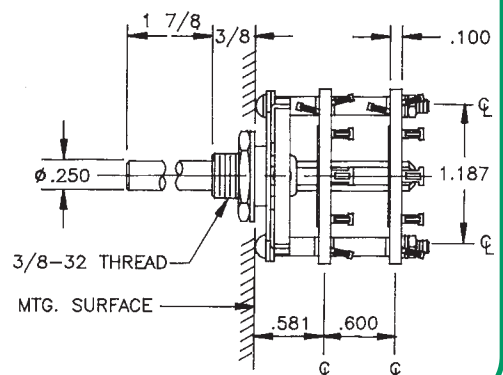
D6G - GLASS EPOXY INSULATION



R REAR P.C.



D6C - CERAMIC CONSTRUCTION



CUSTOM SWITCHES ARE AVAILABLE. CONTACT THE FACTORY WITH YOUR COMPLETE SPECIFICATIONS.

D7 - SERIES

SPECIFICATIONS AND ORDERING INFORMATION

1 7/8" DIAMETER 2.25 AMPS @ 28 VDC

The D7 Series, constructed with a dual-ball, hill and valley index, has increased the physical size of the switch conductors allowing for additional current carrying capabilities. Standard designs utilize glass epoxy or ceramic insulations, solder lug terminals, and 30° adjustable stop indexing.



SPECIFICATIONS

ELECTRICAL

Current and Voltage Rating: Make and break resistive load 2.25 amps @ 28 VDC; 1.0 amp @ 115 VAC.

Current Carrying Capacity: 9 amps.

Dielectric Strength: 1,500 VAC between current carrying parts and ground.

Contact Resistance: Average initial 3 milliohms.

Insulation Resistance: Glass in excess of 750,000 megohms.
Ceramic in excess of 1,000,000 megohms.

Hardware: Mounting nut and lockwasher are shipped assembled.

MECHANICAL

Materials and Finishes: All parts utilize non-corrosive materials as standard.

Clips and Rotors: Brass with silver plate as standard.

Insulation: Glass epoxy, or ceramic.

Index: Dual-ball, hill and valley design.

Index Life: 25,000 cycles minimum.

Index Torque: Switches have lowest practical torque consistent with crisp detenting and smooth, reliable operation.

Index Angles: Positive 30° standard, 60° available.

Index Stops: Adjustable standard, fixed or continuous.

Stop Strength: 25 in. lbs. minimum.

STANDARD PART NUMBER

GLASS EPOXY INSULATION

SWITCHES - 30° INDEXING

ADJUSTABLE STOPS - SOLDER LUG TERMINALS - STOPS SET @ 2 POS.

POLES	ACTIVE POSITIONS	POLES/SECTION	NO. OF SECTIONS	SHORTING	NON-SHORTING	FIG. ★
01	02-11	1	1	D7G0111S	D7G0111N	DA
02	02-11	1	2	D7G0211S	D7G0211N	DA
02	02-05	2	1	D7G0205S	D7G0205N	DH
03	02-11	1	3	D7G0311S	D7G0311N	DA
03	02-03	3	1	D7G0303S	D7G0303N	DM
04	02-11	1	4	D7G0411S	D7G0411N	DA
04	02-05	2	2	D7G0405S	D7G0405N	DH
05	02-11	1	5	D7G0511S	D7G0511N	DA
06	02-05	2	3	D7G0605S	D7G0605N	DH
06	02-03	3	2	D7G0603S	D7G0603N	DM
06	02-11	1	6	D7G0611S	D7G0611N	DA
08	02-05	2	4	D7G0805S	D7G0805N	DH
09	02-03	3	3	D7G0903S	D7G0903N	DM
10	02-05	2	5	D7G1005S	D7G1005N	DH

CERAMIC INSULATION

SWITCHES - 30° INDEXING

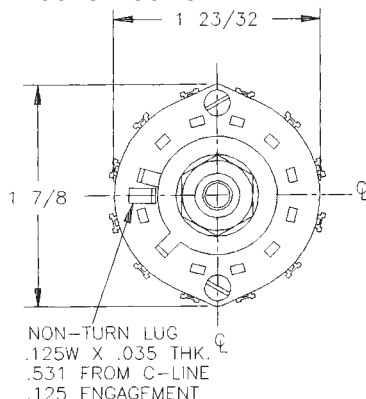
ADJUSTABLE STOPS - SOLDER LUG TERMINALS - STOPS SET @ 2 POS.

POLES	ACTIVE POSITIONS	POLES/SECTION	NO. OF SECTIONS	SHORTING	NON-SHORTING	FIG. ★
01	02-11	1	1	D7C0111S	D7C0111N	DA
02	02-11	1	2	D7C0211S	D7C0211N	DA
02	02-05	2	1	D7C0205S	D7C0205N	DH
03	02-11	1	3	D7C0311S	D7C0311N	DA
03	02-03	3	1	D7C0303S	D7C0303N	DM
04	02-05	2	2	D7C0405S	D7C0405N	DH
06	02-05	2	3	D7C0605S	D7C0605N	DH
06	02-03	3	2	D7C0603S	D7C0603N	DM
60° INDEXING						
01	02-06	1	1	_____	D7C0106N-60	DK
02	02-06	1	2	_____	D7C0206N-60	DK
03	02-06	1	3	_____	D7C0306N-60	DK
04	02-06	1	4	_____	D7C0406N-60	DK
05	02-06	1	5	_____	D7C0506N-60	DK

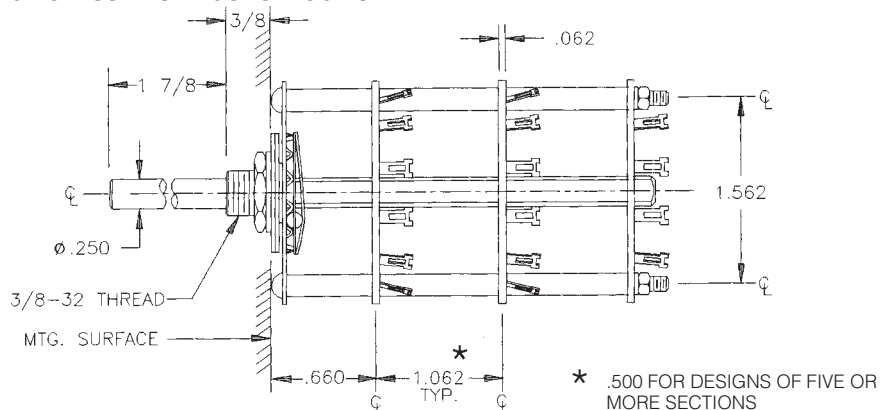
* FIGURES ARE SHOWN ON PAGES 55 AND 56.

DIMENSIONS

STANDARD CONSTRUCTION



D7G - GLASS EPOXY CONSTRUCTION



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How to Order Additional Options:

2 DIGIT SERIES	INSULATION TYPE	TOTAL POLES	ACTIVE POSITIONS	CONTACT TYPE	INDEX ANGLE	STOP TYPE	SHAFT/ BUSHING	SHAFT FLAT
D7	G - GLASS C - CERAMIC	01 - MIN.	12 - MAX @ 30° 06 - MAX @ 60°	S - SHORTING N - NON-SHORTING	30° 60°	A - ADJ. F - FIXED C - CONT.	SEE CHART "A"	SEE CHART "B"

CUSTOMERS SPECIFIED ORDER NUMBER FOR STANDARD OPTIONS

(SPECIFY)

 (SPECIFY)

 (SPECIFY)

 (SPECIFY)

 (SPECIFY)

ADDITIONAL OPTIONS

(SPECIFY)

 (SPECIFY)

 (SPECIFY)

 (SPECIFY)

SHAFT, BUSHING, AND FLAT OPTIONS

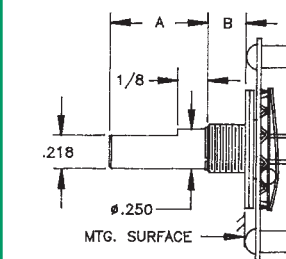


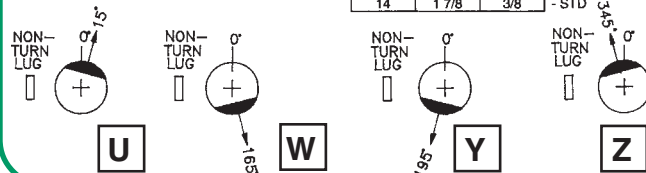
CHART "A"

P/N OPT.	SHAFT LGTH. "A"	BUSH. LGTH. "B"
01	3/8	1/4
02	3/8	3/8
03	1/2	1/4
04	1/2	3/8
05	9/16	1/4
06	9/16	3/8
07	3/4	1/4
08	3/4	3/8
09	1	1/4
10	1	3/8
11	1 1/2	1/4
12	1 1/2	3/8
13	1 7/8	1/4
14	1 7/8	3/8

CHART "B"

P/N OPT.	FLAT ANGLE	- STD
B	ROUND	
U	15°	
W	165°	
Y	195°	
Z	345°	

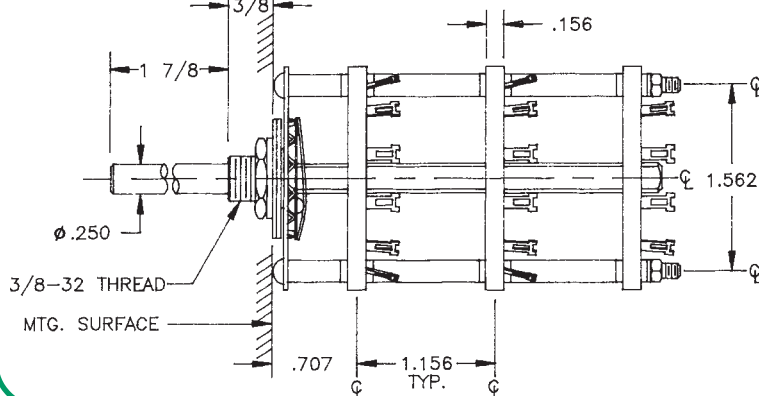
SHAFT AS VIEWED WITH NON-TURN LUG AT 9 O'CLOCK AND SHAFT IN EXTREME CCW POSITION AND STRUT BOLTS ORIENTED VERTICALLY.



INSULATION AND INDEX OPTIONS

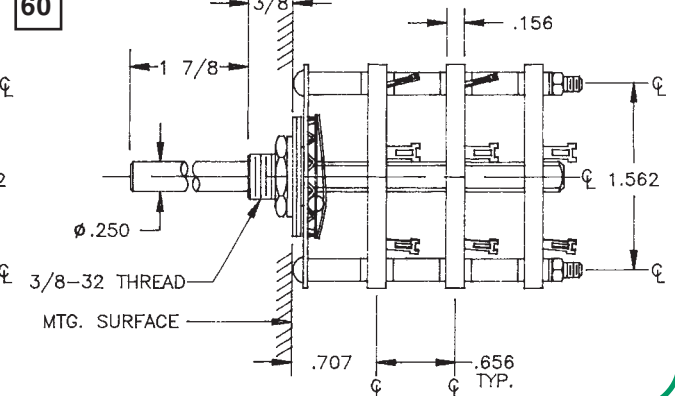
D7C - CERAMIC CONSTRUCTION

30° INDEX



D7C - CERAMIC INSULATION

60° INDEX



CUSTOM SWITCHES ARE AVAILABLE. CONTACT THE FACTORY WITH YOUR COMPLETE SPECIFICATIONS.

D8 - SERIES

SPECIFICATIONS AND ORDERING INFORMATION

2 5/16" DIAMETER 2.25 AMPS @ 28 VDC

The D8 Series switches are heavy duty, 18 position, 20° index, and glass epoxy insulation. Double eyelet construction is standard to assist in supporting larger wiring harness applications. Positive indexing is provided by a dual-ball, hill and valley index assembly.



SPECIFICATIONS

ELECTRICAL

Current and Voltage Rating: Make and break resistive load 2.25 amps @ 28 VDC; 1.0 amp @ 115 VAC.

Current Carrying Capacity: 9 amps.

Dielectric Strength: 1,000 VAC between current carrying parts and ground.

Contact Resistance: Average initial 5 milliohms.

Insulation Resistance: In excess of 750,000 megohms.

Hardware: Mounting nut and lockwasher are shipped assembled.

MECHANICAL

Materials and Finishes: All parts utilize non-corrosive materials as standard.

Clips and Rotors: Brass with silver plate as standard.

Insulation: Glass epoxy.

Index: Dual-ball, hill and valley.

Index Life: 25,000 cycles minimum.

Index Torque: Switches have lowest practical torque consistent with crisp detenting and smooth, reliable operation.

Index Angles: Positive 20° standard.

Index Stops: Adjustable standard, fixed or continuous.

Stop Strength: 25 in. lbs. minimum.

STANDARD PART NUMBER

GLASS EPOXY INSULATION

SWITCHES - 20° INDEXING

ADJUSTABLE STOPS SET @ 2 POS. - SOLDER LUG TERMINALS

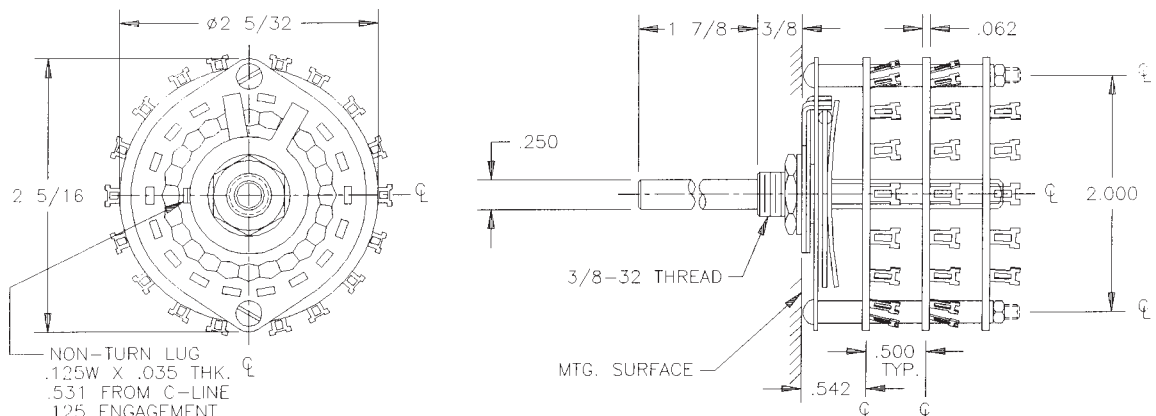
POLES	ACTIVE POSITIONS	POLES/ SECTION	NO. OF SECTIONS	SHORTING	NON-SHORTING	FIG. ★
01	02-17	1	1	D8G0117S	D8G0117N	DT
02	02-17	1	2	D8G0217S	D8G0217N	DT
03	02-17	1	3	D8G0317S	D8G0317N	DT
04	02-17	1	4	D8G0417S	D8G0417N	DT
05	02-17	1	5	D8G0517S	D8G0517N	DT
06	02-17	1	6	D8G0617S	D8G0617N	DT
07	02-17	1	7	D8G0717S	D8G0717N	DT
08	02-17	1	8	D8G0817S	D8G0817N	DT

* FIGURES ARE SHOWN ON PAGE 57.

DIMENSIONS

STANDARD CONSTRUCTION

D8G - GLASS EPOXY CONSTRUCTION



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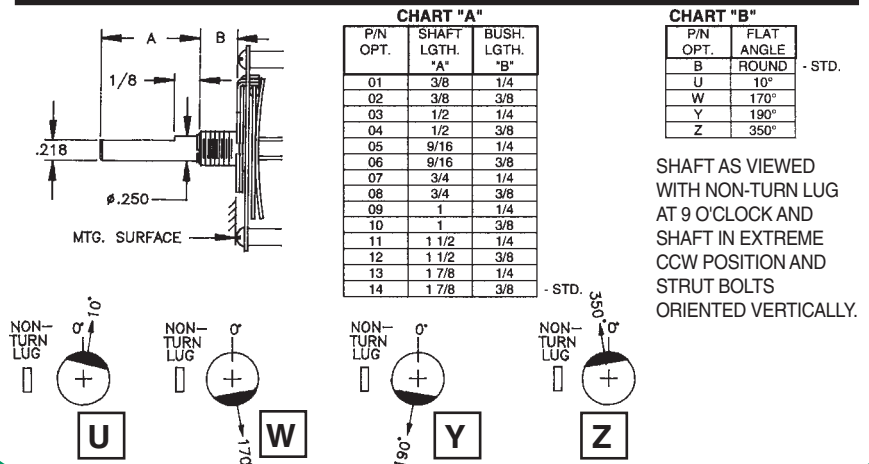
Telephone: (888) ROTARYS or (919) 833-0707
Fax: (800) 909-9171 or (919) 833-8016

How to Order Additional Options:

2 DIGIT SERIES	INSULATION TYPE	TOTAL POLES	ACTIVE POSITIONS	CONTACT TYPE	TERMINAL TYPE	INDEX ANGLE	STOP TYPE	SHAFT/ BUSHING	SHAFT FLAT
D8	G - GLASS	01 - MIN.	18 - MAX @ 20°	N - NON SHORTING S - SHORTING			A - ADJ. F - FIXED C - CONT.	SEE CHART "A"	SEE CHART "B"

CUSTOMERS SPECIFIED ORDER NUMBER FOR STANDARD OPTIONS				ADDITIONAL OPTIONS		
D	8	G				
		(SPECIFY)	(SPECIFY)	(SPECIFY)	(SPECIFY)	(SPECIFY)

SHAFT, BUSHING, AND FLAT OPTIONS



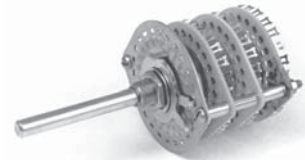
CUSTOM SWITCHES ARE AVAILABLE. CONTACT THE FACTORY WITH YOUR COMPLETE SPECIFICATIONS.

D9 - SERIES

SPECIFICATIONS AND ORDERING INFORMATION

2 5/16" DIAMETER 1.5 AMPS @ 28 VDC

The D9 Series has a 15° index with a maximum of 24 positions. Indexing is provided by a dual-ball hill and valley design. Standard features include solder lug terminals, adjustable stops and glass epoxy insulation.



SPECIFICATIONS

ELECTRICAL

Current and Voltage Rating: Make and break resistive load 1.5 amps @ 28 VDC; 0.25 amp @ 115 VAC.

Current Carrying Capacity: 9 amps.

Dielectric Strength: 1,000 VAC between current carrying parts and ground.

Contact Resistance: Average initial 5 milliohms.

Insulation Resistance: In excess of 750,000 megohms.

Hardware: Mounting nut and lockwasher are shipped assembled.

MECHANICAL

Materials and Finishes: All parts utilize non-corrosive materials as standard.

Clips and Rotors: Brass with silver plate as standard.

Insulation: Glass epoxy.

Index: Dual-ball, hill and valley design.

Index Life: 25,000 cycles minimum.

Index Torque: Switches have lowest practical torque consistent with crisp detenting and smooth, reliable operation.

Index Angles: Positive 15° standard.

Index Stops: Adjustable standard, fixed or continuous.

Stop Strength: 25 in. lbs. minimum.

STANDARD PART NUMBER

GLASS EPOXY INSULATION

SWITCHES - 15° INDEXING

ADJUSTABLE STOPS - SOLDER LUG TERMINALS - STOPS SET @ 2 POS.

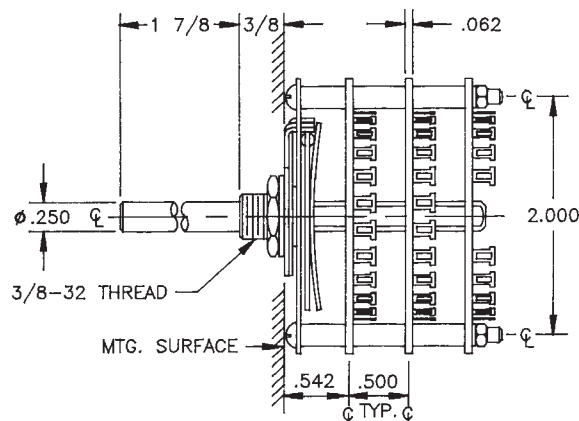
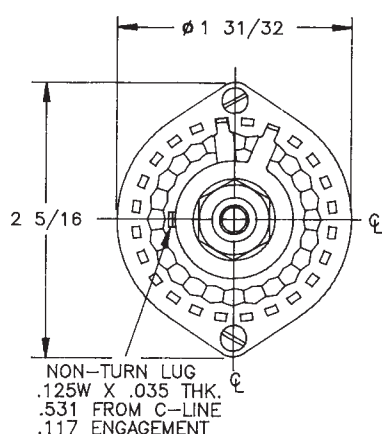
POLES	ACTIVE POSITIONS	POLES/ SECTION	NO. OF SECTIONS	SHORTING	NON-SHORTING	FIG. *
01	02-23	1	1	D9G0123S	D9G0123N	DU
02	02-23	1	2	D9G0223S	D9G0223N	DU
03	02-23	1	3	D9G0323S	D9G0323N	DU
04	02-23	1	4	D9G0423S	D9G0423N	DU
05	02-23	1	5	D9G0523S	D9G0523N	DU
06	02-23	1	6	D9G0623S	D9G0623N	DU
07	02-23	1	7	D9G0723S	D9G0723N	DU
08	02-23	1	8	D9G0823S	D9G0823N	DU

* FIGURES ARE SHOWN ON PAGE 57.

DIMENSIONS

STANDARD CONSTRUCTION

D9G - GLASS EPOXY CONSTRUCTION



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Raleigh, NC 27604

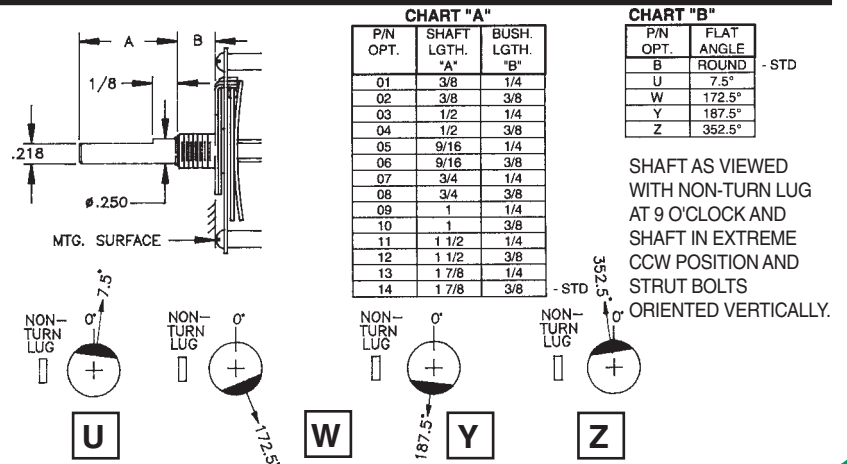
Telephone: (888) ROTARYS or (919) 833-0707
Fax: (800) 909-9171 or (919) 833-8016

How to Order Additional Options:

2 DIGIT SERIES	INSULATION TYPE	TOTAL POLES	ACTIVE POSITIONS	CONTACT TYPE	TERMINAL TYPE	INDEX ANGLE	STOP TYPE	SHAFT/ BUSHING	SHAFT FLAT
D9	G - GLASS	01 - MIN.	24 - MAX @ 15°	S - SHORTING N - NON SHORTING	L - SOLDER LUG R - REAR P.C.		A - ADJ. F - FIXED C - CONT.	SEE CHART "A"	SEE CHART "B"

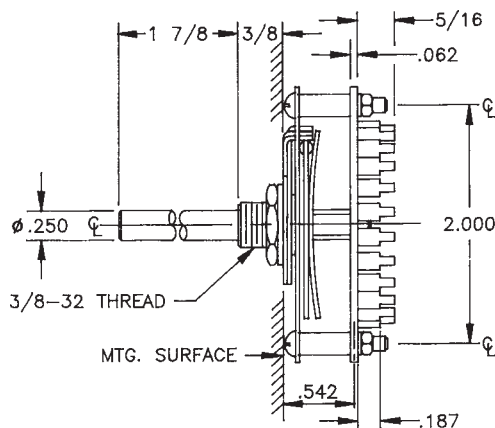
CUSTOMERS SPECIFIED ORDER NUMBER FOR STANDARD OPTIONS					ADDITIONAL OPTIONS		
D	9	G					
			(SPECIFY)	(SPECIFY)	(SPECIFY)	(SPECIFY)	(SPECIFY)

SHAFT, BUSHING, AND FLAT OPTIONS

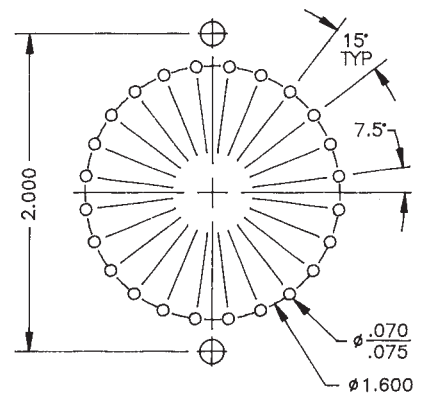


PRINTED CIRCUIT BOARD OPTIONS

R



P.C. BOARD MOUNTING PATTERN



CUSTOM SWITCHES ARE AVAILABLE. CONTACT THE FACTORY WITH YOUR COMPLETE SPECIFICATIONS.

SELECTOR GUIDE OPEN FRAME ROTARY ELECTRONIC SWITCHES



CHARACTERISTICS

SERIES E1

SERIES E2

SERIES E3

SERIES E4

SERIES E5

Page Number	37	38	39	40,41	42,43
Construction	OPEN	OPEN	OPEN	OPEN	OPEN
Diameter	1.50"	N/A	1.500"	2.812"	2.5 x 1.625"
Positions	2 - 3	2 - 5	2 - 3	2 - 17	2 - 24
E Current and Voltage	.25A @ 115 VAC	0.5A @ 115 VAC	0.5A @ 115 VAC	9.0A @ 115 VAC	0.25A @ 115 VAC
L	1.5A @ 28 VDC	1.5A @ 28 VDC	1.5A @ 28 VDC	11.0A @ 28 VDC	0.55A @ 28 VDC
E Current Carrying Capacity	9A	9A	9A	17A	1A
C Dielectric Strength	1,000 VAC	1,000 VAC	1,500 VAC	3,000 VAC	750 VAC
T Insulation Resistance	750,000	750,000	750,000	1,000,000	750,000
R (megohms)					
I Contact Resistance	3.5	3.5	3.5	7	N/A
C (milliohms)					
A					
L					
M Insulation - Glass Epoxy	STANDARD	STANDARD	STANDARD	NO	STANDARD
A Ceramic	NO	NO	YES	STANDARD	NO
T					
E					
R					
I Contacts - Silver Alloy ★	YES	YES	YES	STANDARD	YES
A Brass/Silver Plate	STANDARD	STANDARD	STANDARD	NO	STANDARD
L					
M Stop Strength	10 in. lb.	25 in. lb.	25 in. lb.	25 in. lb.	25 in. lb.
E Mechanical Life	10,000 cycles	25,000 cycles	25,000 cycles	25,000 cycles	25,000 cycles
C Detenting Angles: 15°	—	15	—	—	15
H 20°	—	—	—	20	—
A 22.5°	—	—	—	—	—
N 30°	30	30	30	—	—
I 36°	—	—	—	—	—
C 45°	—	—	—	—	—
A 60°	—	—	—	—	—
L 90°	—	—	—	—	—
O Quick Connect	NO	NO	NO	NO	NO
P Rear PC Mount	YES	YES	YES	NO	NO
T Vertical PC Mount ★	NO	NO	NO	NO	YES
I Front PC Mount ★	YES	NO	NO	NO	NO
O Dual Concentric Designs ★	NO	NO	NO	NO	NO
N Keylock ★	NO	NO	NO	NO	NO
S Spring Return ★	NO	YES	YES	NO	NO
Water Resistant Seals ★	NO	NO	YES	NO	YES

★ Contact factory



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SPECIFICATIONS AND ORDERING INFORMATION

E1 - SERIES

1 1/2" MAXIMUM DIAMETER 1.5 AMPS @ 28 VDC

The E1 Series offers a strong positive 30° index in a hill and valley design, and a small front housing. This series is superior where depth-behind-panel is critical.



SPECIFICATIONS

ELECTRICAL

Current and Voltage Rating: Make and break resistive load 1.5 amps @ 28 VDC; 0.25 amp @ 115 VAC.

Current Carrying Capacity: 9 amps.

Dielectric Strength: 1,000 VAC between current carrying parts and ground.

Contact Resistance: Average initial 3.5 milliohms.

Insulation Resistance: In excess of 750,000 megohms.

Hardware: Mounting nut and lockwasher are shipped assembled.

MECHANICAL

Materials and Finishes: All parts utilize non-corrosive materials as standard.

Clips and Rotors: Brass with silver plate as standard.

Insulation: Glass epoxy.

Index: Formed spring, hill and valley design.

Index Life: 10,000 cycles minimum.

Index Torque: Switches have lowest practical torque consistent with crisp detenting and smooth, reliable operation.

Index Angles: Positive 30° standard.

Index Stops: Fixed stops standard.

Stop Strength: 10 in. lbs. minimum.

STANDARD PART NUMBER

GLASS EPOXY INSULATION

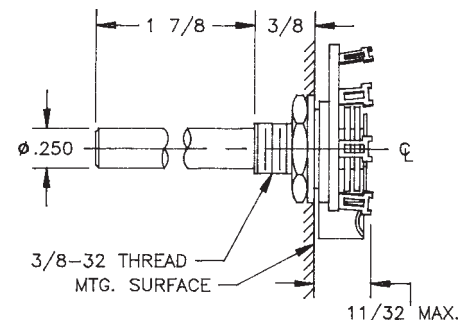
SWITCHES - 30° INDEXING - FIXED STOPS - SOLDER LUG TERMINALS

POLES	ACTIVE POSITIONS	POLES/ SECTION	NO. OF SECTIONS	SHORTING	NON-SHORTING	DETAIL
01	02	1	1	E1G0102S	E1G0102N	A
01	03	1	1	E1G0103S	E1G0103N	B
02	02	2	1	E1G0202S	E1G0202N	C
02	03	2	1	E1G0203S	E1G0203N	D

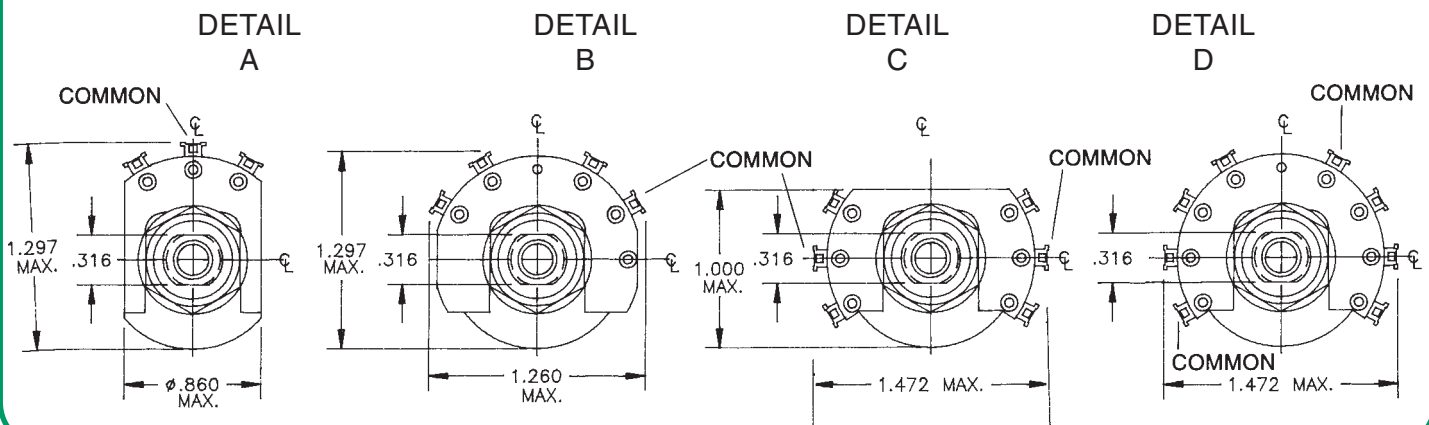
DIMENSIONS

STANDARD CONSTRUCTION

E1G - GLASS EPOXY CONSTRUCTION



DIMENSIONS



E2 - SERIES

SPECIFICATIONS AND ORDERING INFORMATION

Lever Action 1.5 AMPS @ 28 VDC

The E2 Series is our lever action switch, originally designed for the electric guitar market. It offers positive 2-5 position switching, a 30° or a 15° index, and solder lug terminals.



SPECIFICATIONS

ELECTRICAL

Current and Voltage Rating: Make and break resistive load
1.5 amps @ 28 VDC; 0.5 amp @ 115 VAC.

Current Carrying Capacity: 9 amps.

Dielectric Strength: 1,000 VAC between current carrying parts and ground.

Contact Resistance: Average initial 3.5 milliohms.

Insulation Resistance: In excess of 750,000 megohms.

MECHANICAL

Materials and Finishes: All parts utilize non-corrosive materials as standard.

Clips and Rotors: Brass with silver plate as standard.

Insulation: Glass epoxy.

Index: Cam and roller with coil spring.

Index Life: 25,000 cycles minimum.

Index Torque: Switches have lowest practical torque consistent with crisp detenting and smooth, reliable operation.

Index Angles: Positive 30°, 15° and spring return.

Index Stops: Fixed stops standard.

Stop Strength: 25 in. lbs. minimum.

STANDARD PART NUMBER

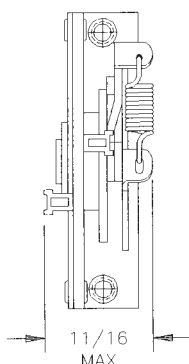
LEVER

SWITCHES - 30° INDEXING - FIXED STOPS - SOLDER LUG TERMINALS

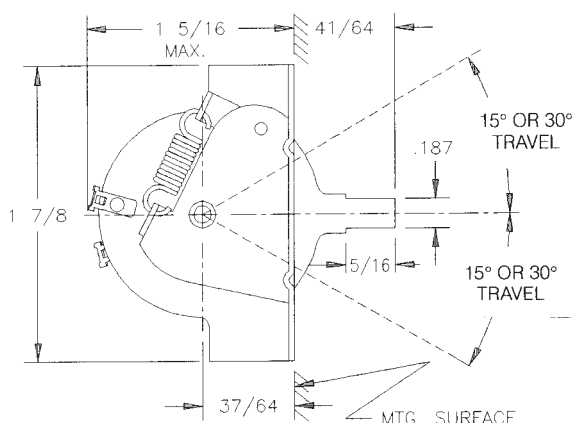
POLES	ACTIVE POSITIONS	POLES/SECTION	NO. OF SECTIONS	SHORTING	NON-SHORTING	DESCRIPTION	DETAIL
02	03	2	1	E2G0203S-1	E2G0203N-1	 POSITIVE INDEX ONE SIDE TO CENTER, SPRING RETURN OPPOSITE SIDE TO CENTER.	E
02	05	2	1	E2G0205S-15	-----	 2 POSITIVE INDEX POSITIONS BOTH SIDES OF CENTER.	E
02	03	2	1	E2G0203S	E2G0203N	 POSITIVE INDEX BOTH SIDES OF CENTER.	E
02	03	2	1	E2G0203S-2	E2G0203N-2	 SPRING RETURN BOTH SIDES TO CENTER.	E
04	02	4	1	E2G0402S-3	E2G0402N-3	 SPRING RETURN TO CENTER.	E
04	02	4	1	E2G0402S	E2G0402N	 POSITIVE INDEX.	E

DIMENSIONS

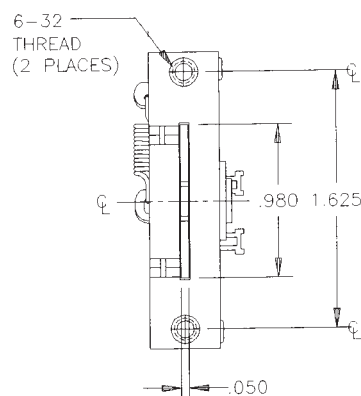
STANDARD CONSTRUCTION



DETAIL E



DETAIL F



SPECIFICATIONS AND ORDERING INFORMATION

E3 - SERIES

1 1/2" DIAMETER 1.5 AMPS @ 28 VDC

The E3 Series was designed to provide spring return action in an open frame construction. Standard construction is available with 2 or 3 positions, 30° index, and solder lug terminals.



SPECIFICATIONS

ELECTRICAL

Current and Voltage Rating: Make and break resistive load
1.5 amps @ 28 VDC; 0.5 amp @ 115 VAC.

Current Carrying Capacity: 9 amps.

Dielectric Strength: 1,500 VAC between current carrying parts and ground.

Contact Resistance: Average initial 3.5 milliohms.

Insulation Resistance: In excess of 750,000 megohms.

Hardware: Mounting nut and lockwasher are shipped assembled.

MECHANICAL

Materials and Finishes: All parts utilize non-corrosive materials as standard.

Clips and Rotors: Brass with silver plate as standard.

Insulation: Glass epoxy.

Index: Coil spring.

Index Life: 25,000 cycles minimum.

Index Torque: Switches have lowest practical torque consistent with crisp detenting and smooth, reliable operation.

Index Angles: Positive 30° standard.

Index Stops: Fixed stops standard.

Stop Strength: 25 in. lbs. minimum.

STANDARD PART NUMBER

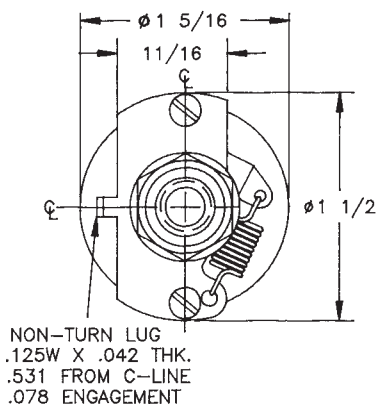
SPRING RETURN

SWITCHES - 30° INDEXING - FIXED STOPS - SOLDER LUG TERMINALS

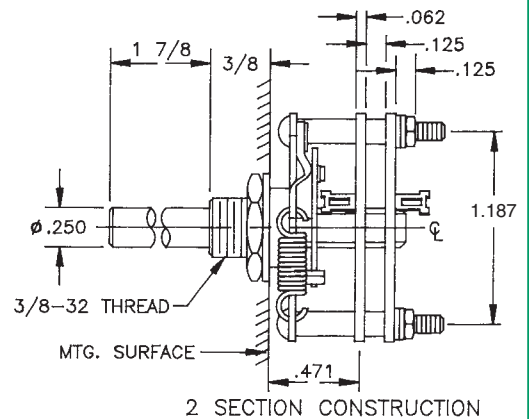
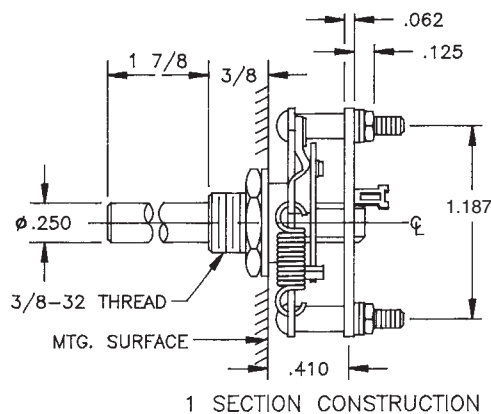
POLES	ACTIVE POSITIONS	POLES/ SECTION	NO. OF SECTIONS	SHORTING	NON-SHORTING	DESCRIPTION
04	02	4	1	E3G0402S-1	E3G0402N-1	 SPRING RETURN FROM CLOCKWISE.
06	03	3	2	E3G0603S-2	E3G0603N-2	 SPRING RETURN BOTH SIDES TO CENTER.
06	03	3	2	E3G0603S-3	E3G0603N-3	 SPRING RETURN CLOCKWISE TO CENTER, POSITIVE INDEX COUNTER CLOCKWISE OF CENTER.

DIMENSIONS

STANDARD CONSTRUCTION



E3G - GLASS EPOXY CONSTRUCTION



E4 - SERIES

SPECIFICATIONS AND ORDERING INFORMATION

2 13/16" DIAMETER 11.0 AMPS @ 28 VDC

The E4 Series was designed to offer maximum power ratings in an electronic open frame switch. Standard construction consists of a 20° index, 2-17 positions, and solder lug terminals.



SPECIFICATIONS

ELECTRICAL

Current and Voltage Rating: Make and break resistive load 11.0 amps @ 28 VDC; 9.0 amps @ 115 VAC.

Current Carrying Capacity: 17 amps.

Dielectric Strength: 3000 VAC between current carrying parts and ground.

Contact Resistance: Average initial 7.0 milliohms.

Insulation Resistance: In excess of 1,000,000 megohms.

Hardware: Mounting nut and lockwasher are shipped assembled.

MECHANICAL

Materials and Finishes: All parts utilize non-corrosive materials as standard.

Contacts and Collector Rings: Coin silver as standard.

Insulation: Ceramic.

Index: Dual-ball, hill and valley design.

Index Life: 25,000 cycles minimum.

Index Torque: Switches have lowest practical torque consistent with crisp detenting and smooth, reliable operation.

Index Angles: Positive 20° standard.

Index Stops: Adjustable stops standard, fixed or continuous.

Stop Strength: 25 in. lbs. minimum.

STANDARD PART NUMBER

20° INDEXING

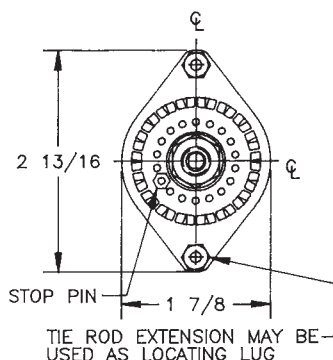
SWITCHES ADJUSTABLE STOPS - SOLDER LUG TERMINALS - STOPS SET @ 2 POS.

POLES	ACTIVE POSITIONS	POLES/ SECTION	NO. OF SECTIONS	SHORTING	NON-SHORTING	FIG. *	POLES	ACTIVE POSITIONS	POLES/ SECTION	NO. OF SECTIONS	SHORTING	NON-SHORTING	FIG. *
01	02-17	1	1	E4C0117S	E4C0117N	EA	06	02-17	1	6	E4C0617S	E4C0617N	EA
02	02-17	1	2	E4C0217S	E4C0217N	EA	06	02-08	2	3	E4C0608S	E4C0608N	EB
02	02-08	2	1	E4C0208S	E4C0208N	EB	06	02-05	3	2	E4C0605S	E4C0605N	EC
03	02-17	1	3	E4C0317S	E4C0317N	EA	08	02-08	2	4	E4C0808S	E4C0808N	EB
03	02-05	3	1	E4C0305S	E4C0305N	EC	09	02-05	3	3	E4C0905S	E4C0905N	EC
04	02-17	1	4	E4C0417S	E4C0417N	EA	10	02-08	2	5	E4C1008S	E4C1008N	EB
04	02-08	2	2	E4C0408S	E4C0408N	EB	12	02-05	3	4	E4C1205S	E4C1205N	EC
05	02-17	1	5	E4C0517S	E4C0517N	EA	15	02-05	3	5	E4C1505S	E4C1505N	EC

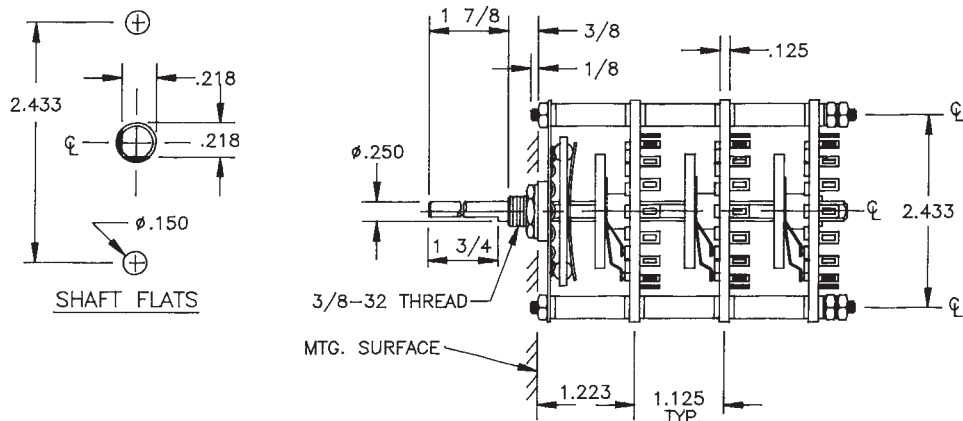
* FIGURES ARE SHOWN ON PAGE 57.

DIMENSIONS

STANDARD CONSTRUCTION



E4C - CERAMIC CONSTRUCTION



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UNIT OF ELECTRO SWITCH CORP.

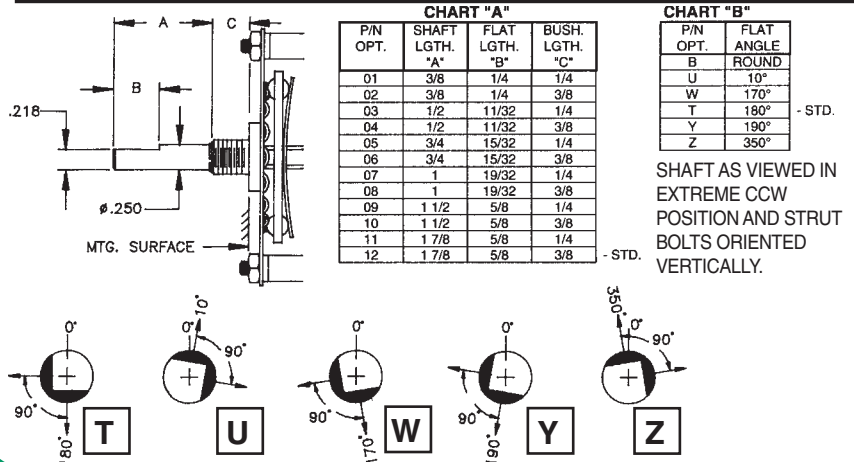
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Telephone: (888) ROTARYS or (919) 833-0707
Fax: (800) 909-9171 or (919) 833-8016

How to Order Additional Options:

2 DIGIT SERIES	INSULATION TYPE	TOTAL POLES	ACTIVE POSITIONS	CONTACT TYPE	STOP TYPE		
E4	C - CERAMIC	01 - MIN.	17 - MAX @ 20°	S - SHORTING N - NON SHORTING	A - ADJ. F - FIXED C - CONT. SEE CHART "A" SEE CHART "B"		
CUSTOMERS SPECIFIED ORDER NUMBER FOR STANDARD OPTIONS					ADDITIONAL OPTIONS		
E 4 C (SPECIFY) (SPECIFY) (SPECIFY)					(SPECIFY) (SPECIFY) (SPECIFY)		

SHAFT, BUSHING, AND FLAT OPTIONS



CUSTOM SWITCHES ARE AVAILABLE. CONTACT THE FACTORY WITH YOUR COMPLETE SPECIFICATIONS.

E5 - SERIES

2 1/2" 0.55 AMP @ 28 VDC

SPECIFICATIONS AND ORDERING INFORMATION

The E5 Series offers a vertical printed circuit board mountable switch with up to 24 positions and a 15° index. This series is great where complex switching is required in a small package.



SPECIFICATIONS

ELECTRICAL

Current and Voltage Rating: Make and break resistive load
0.55 amp @ 28 VDC; 0.55 amp @ 115 VAC.

Current Carrying Capacity: 1 amp.

Dielectric Strength: 750 VAC between current carrying parts and ground.

Insulation Resistance: In excess of 750,000 megohms.

Hardware: Mounting nut and lockwasher are shipped assembled.

MECHANICAL

Materials and Finishes: All parts utilize non-corrosive materials as standard.

Clips and Rotors: Brass with silver plate as standard.

Insulation: Glass epoxy.

Index: Single-ball, hill and valley.

Index Life: 25,000 cycles minimum.

Index Torque: Switches have lowest practical torque consistent with crisp detenting and smooth, reliable operation.

Index Angles: Positive 15° standard.

Index Stops: Fixed standard or continuous.

Stop Strength: 25 in. lbs. minimum.

STANDARD PART NUMBER

VERTICAL PRINTED CIRCUIT BOARD

15° INDEXING - SOLDER LUG TERMINALS - FIXED STOPS

POLES	ACTIVE POSITIONS	POLES/ DECK	NO. OF DECKS	SHORTING	NON-SHORTING	FIG. ★
01	23	1	1	E5G0123S	E5G0123N	ED
02	23	1	2	E5G0223S	E5G0223N	ED
03	23	1	3	E5G0323S	E5G0323N	ED
04	23	1	4	E5G0423S	E5G0423N	ED

VERTICAL PRINTED CIRCUIT BOARD

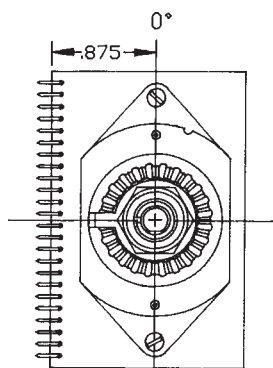
15° INDEXING - SOLDER LUG TERMINALS - CONTINUOUS ROTATION

POLES	ACTIVE POSITIONS	POLES/ DECK	NO. OF DECKS	SHORTING	NON-SHORTING	FIG. ★
01	23	1	1	E5G0123S-C	E5G0123N-C	ED
02	23	1	2	E5G0223S-C	E5G0223N-C	ED
03	23	1	3	E5G0323S-C	E5G0323N-C	ED
04	23	1	4	E5G0423S-C	E5G0423N-C	ED

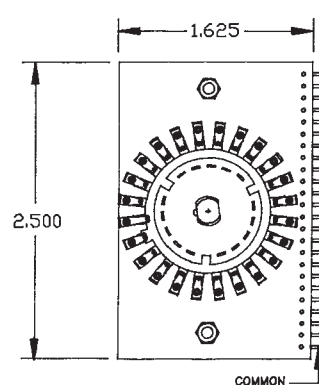
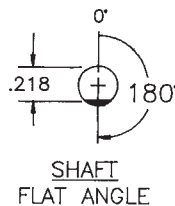
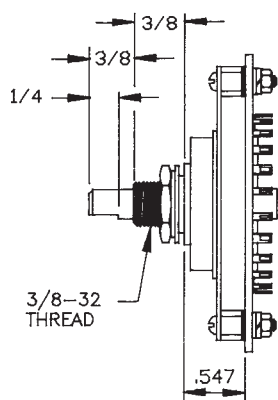
* FIGURES ARE SHOWN ON PAGE 57.

DIMENSIONS

STANDARD CONSTRUCTION



E5 - GLASS EPOXY CONSTRUCTION

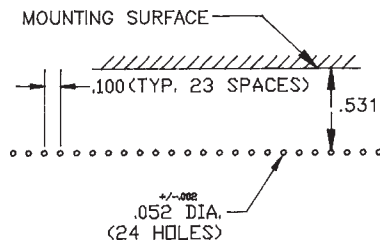


How to Order Additional Options:

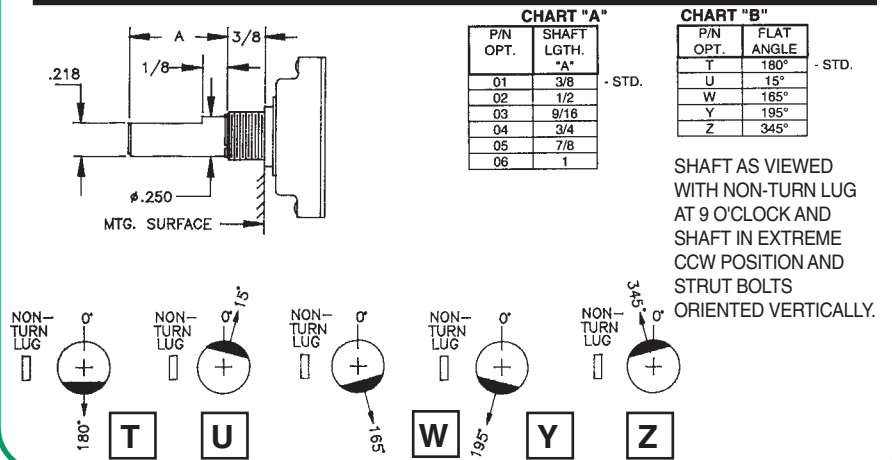
2 DIGIT SERIES	INSULATION TYPE	TOTAL POLES	ACTIVE POSITIONS	CONTACT TYPE	STOP TYPE	SHAFT/ BUSHING	SHAFT FLAT
E5	G - GLASS	01 - MIN.	23 - MAX @ 15°	S - SHORTING N - NON SHORTING	F - FIXED 23 - POS. MAX. C - CONT. 24 - POS. MAX.	SEE CHART "A"	SEE CHART "B"

CUSTOMERS SPECIFIED ORDER NUMBER FOR STANDARD OPTIONS				ADDITIONAL OPTIONS		
E	5	G				
		(SPECIFY)	(SPECIFY)	(SPECIFY)	(SPECIFY)	(SPECIFY)

PRINTED CIRCUIT BOARD DRILLING



SHAFT, BUSHING, AND FLAT OPTIONS



CUSTOM SWITCHES ARE AVAILABLE. CONTACT THE FACTORY WITH YOUR COMPLETE SPECIFICATIONS.

SELECTOR GUIDE

ORIGINALLY DESIGNED AS MIL. SPEC.
ROTARY ELECTRONIC SWITCHES



CHARACTERISTICS

SERIES M4

SERIES M5

SERIES M6

SERIES M7

Page Number	46,47	48,49	50,51	52,53
Construction	ENCLOSED	ENCLOSED	OPEN	OPEN
Diameter	1.43"	1.00"	1.75"	2.5" SQ.
Positions	2 - 12	2 - 12	2 - 32	2 - 48
E Current and Voltage	0.35A @ 115 VAC	2.5A @ 120 VAC	0.125A @ 115 VAC	0.125A @ 115 VAC
L	1.0A @ 28 VDC	2.0A @ 28 VDC	0.5A @ 28 VDC	0.5A @ 28 VDC
E Current Carrying Capacity	10A	12A	10A	10A
C Dielectric Strength	1,000 VAC	1,500 VAC	1,500 VAC	1,500 VAC
T Insulation Resistance	10,000	100,000	1,000,000	1,000,000
R (megohms)				
I Contact Resistance	5	5	10	10
C (milliohms)				
A				
L				
M Insulation - Glass Epoxy	NO	NO	STANDARD	STANDARD
A Diallyl Phthalate	STANDARD	STANDARD	NO	NO
T				
E				
R				
I Contacts - Silver Alloy ★	STANDARD	STANDARD	STANDARD	STANDARD
A Brass/Silver Plate	NO	NO	NO	NO
L Gold Plate	YES	YES	YES	YES
M Stop Strength	25 in. lb.	15 in. lb.	50 in. lb.	50 in. lb.
E Mechanical Life	25,000 cycles	25,000 cycles	25,000 cycles	25,000 cycles
C Detenting Angles: 7.5°	—	—	—	7.5
H 11.25°	—	—	11.25	—
A 15°	—	—	15	15
N 22.5°	—	—	22.5	—
I 30°	30	30	30	—
C 36°	—	36	—	—
A 45°	—	45	—	—
L 60°	—	60	—	—
90°	—	90	—	—
O Quick Connect	NO	NO	NO	NO
P Rear PC Mount	NO	NO	YES	NO
T Vertical PC Mount ★	NO	NO	NO	NO
I Front PC Mount ★	NO	NO	NO	NO
O Dual Concentric Designs ★	NO	YES	NO	YES
N Keylock ★	NO	NO	NO	NO
S Spring Return ★	NO	NO	YES	NO
Water Resistant Seals ★	YES	YES	YES	YES
Originally Designed To Meet Mil 3786/	SR28	SR04	SR40	SR15

The M4 and M5 Series use the enclosed frame worksheet on page 5 for custom designs.

The M6 and M7 Series use the open frame worksheet on page 45 for custom designs.

★ Contact factory



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OPEN FRAME WORKSHEET

SERIES PREFERRED _____

ELECTRICAL REQUIREMENTS:

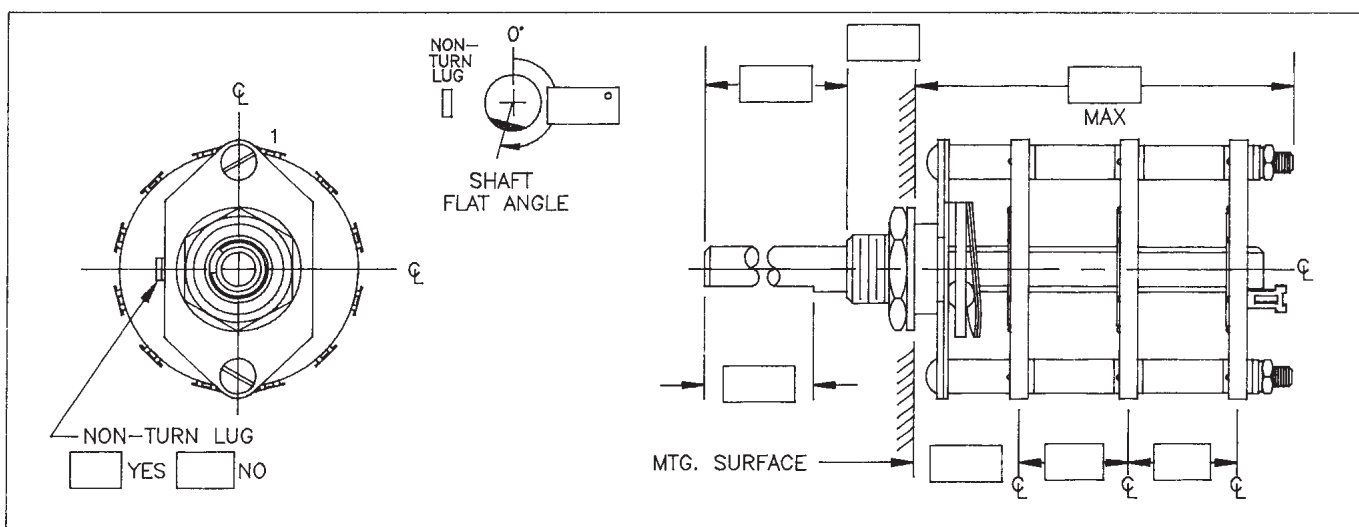
☐ SHORTING OR ☐ NON-SHORTING

CURRENT CARRYING CAPACITY

INTERRUPTING CURRENT

MAXIMUM WORKING VOLTAGE

ADDITIONAL REQUIREMENTS: _____



MECHANICAL REQUIREMENTS:

NO. OF POSITIONS

NO. OF POLES

TERMINAL TYPE

INDEX ANGLE

Estimated usage _____

NOTES: SEE APPROPRIATE CATALOG PAGES FOR
STANDARD DIMENSIONS AND OPTIONS.

ADDITIONAL REQUIREMENTS: _____



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Sender Information

Date: _____ Time: _____

Name: _____

Company: _____

Address: _____

Ph #: _____

Fax #: _____

FAX TRANSMISSION

M4 - SERIES

SPECIFICATIONS AND ORDERING INFORMATION

1.43" DIAMETER 1.0 AMP @ 28 VDC

The M4 Series was originally designed to meet the requirements of MIL-S-3786/28. Standard construction includes solder lug terminals, adjustable stops and up to 12 positions.



SPECIFICATIONS

ELECTRICAL

Current and Voltage Rating: Make and break resistive load
1.0 amp @ 28 VAC; 0.35 amp @ 115 VDC; .
Current Carrying Capacity: 10 amps.
Dielectric Strength: 1,000 VAC between current carrying parts and ground.
Contact Resistance: Average initial 5 milliohms.
Insulation Resistance: In excess of 10,000 megohms

Hardware: Mounting nut and lockwasher are shipped assembled.

MECHANICAL

Materials and Finishes: All parts utilize non-corrosive materials as standard.
Clips and Rotors: Silver alloy as standard.
Insulation: Diallyl phthalate.
Index: Dual-ball, hill and valley design.
Index Life: 25,000 cycles minimum.
Index Torque: Switches have lowest practical torque consistent with crisp detenting and smooth, reliable operation.
Index Angles: Positive 30° standard.
Index Stops: Adjustable standard, or continuous.
Stop Strength: 25 in. lbs. minimum.

STANDARD PART NUMBER

2 WAFER/DECK CONSTRUCTION

SWITCHES - 30° INDEXING
ADJUSTABLE STOPS SET @ 12 POS. - SOLDER LUG TERMINALS

POLES	ACTIVE POSITIONS	POLES/ DECK	NO. OF DECKS	SHORTING	NON-SHORTING	FIG. *
01	02-12	1	1	M4D0112S	M4D0112N	MB
02	02-12	1	2	M4D0212S	M4D0212N	MB
03	02-12	1	3	M4D0312S	M4D0312N	MB
04	02-12	1	4	M4D0412S	M4D0412N	MB

1 WAFER/DECK CONSTRUCTION

SWITCHES - 30° INDEXING
ADJUSTABLE STOPS SET @ 6 POS. - SOLDER LUG TERMINALS

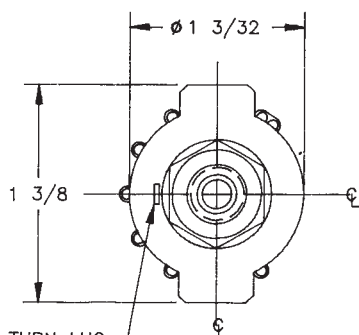
POLES	ACTIVE POSITIONS	POLES/ DECK	NO. OF DECKS	SHORTING	NON-SHORTING	FIG. *
01	02-06	1	1	M4D01 06S	M4D01 06N	MA
02	02-06	1	2	M4D0206S	M4D0206N	MA
03	02-06	1	3	M4D0306S	M4D0306N	MA
04	02-06	1	4	M4D0406S	M4D0406N	MA

* FIGURES ARE SHOWN ON PAGE 57.

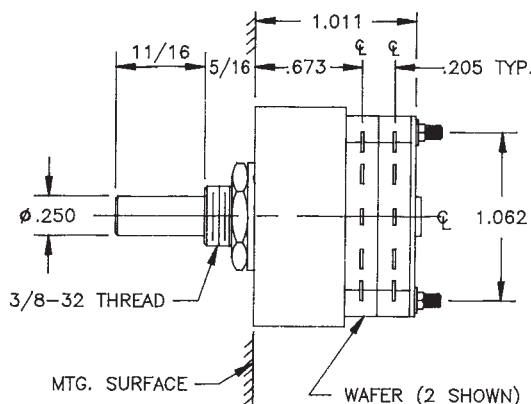
DIMENSIONS

STANDARD CONSTRUCTION

M4D - DIALLYL PHTHALATE CONSTRUCTION



NON-TURN LUG
.125W X .031 THK.
.375 FROM C-LINE
.050 ENGAGEMENT



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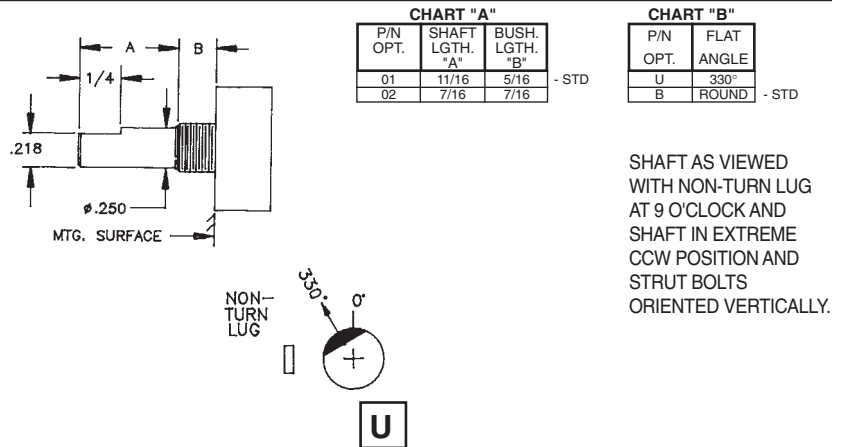
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How to Order Additional Options:

2 DIGIT SERIES	INSULATION TYPE	TOTAL POLES	ACTIVE POSITIONS	CONTACT TYPE	STOP TYPE	SHAFT/ BUSHING	SHAFT FLAT
M4	D - DIALLYL	01 - MIN.	12 - MAX @ 30°	S - SHORTING N - NON SHORTING	A - ADJ. C - CONT.	SEE CHART "A"	SEE CHART "B"

CUSTOMERS SPECIFIED ORDER NUMBER FOR STANDARD OPTIONS				ADDITIONAL OPTIONS		
M	4	D				
		(SPECIFY)	(SPECIFY)	(SPECIFY)	(SPECIFY)	(SPECIFY)

SHAFT, BUSHING, AND FLAT OPTIONS



CUSTOM SWITCHES ARE AVAILABLE. CONTACT THE FACTORY WITH YOUR COMPLETE SPECIFICATIONS.

M5 - SERIES

1" DIAMETER 2.0 AMPS @ 28 VDC

SPECIFICATIONS AND ORDERING INFORMATION

The M5 Series was originally designed to meet the requirements of MIL-S-3786/4. Standard construction includes 30° indexing up to 12 positions, solder lug terminals and adjustable stops. A very reliable switch for long life.



SPECIFICATIONS

ELECTRICAL

Current and Voltage Rating: Make and break resistive load 2.0 amps @ 28 VDC; 2.5 amp @ 120 VAC.

Current Carrying Capacity: 12 amps.

Dielectric Strength: 1,500 VAC between current carrying parts and ground.

Contact Resistance: Average initial 5 milliohms.

Insulation Resistance: In excess of 100,000 megohms

Hardware: Mounting nut and lockwasher are shipped assembled.

MECHANICAL

Materials and Finishes: All parts utilize non-corrosive materials as standard.

Terminals: Copper alloy with silver plating as standard.

Insulation: Diallyl phthalate.

Index: Dual-ball, hill and valley design.

Index Life: 25,000 cycles minimum.

Index Torque: Switches have lowest practical torque consistent with crisp detenting and smooth, reliable operation.

Index Angles: Positive 30° standard, 36°, 45°, 60°, and 90° available.

Index Stops: Fixed standard, adjustable, or continuous.

Stop Strength: 15 in. lbs. minimum.

STANDARD PART NUMBER

ADJUSTABLE STOPS

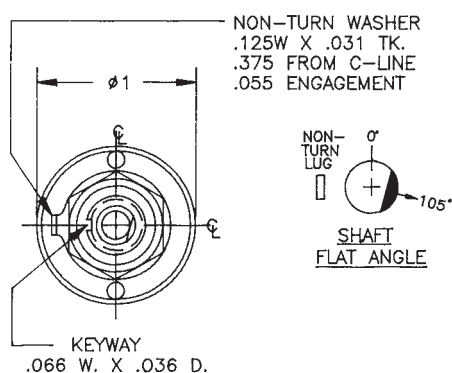
SWITCHES - 30° INDEXING - STOPS SET @ 2 POS. - SOLDER LUG TERMINALS

POLES	ACTIVE POSITIONS	POLES/ DECK	NO. OF DECKS	SHORTING	NON-SHORTING	FIG. ★
01	02-12	1	1	M5D0112S - A	M5D0112N - A	CE
02	02-12	1	2	M5D0212S - A	M5D0212N - A	CE
02	02-06	2	1	M5D0206S - A	M5D0206N - A	CJ
03	02-12	1	3	M5D0312S - A	M5D0312N - A	CE
04	02-12	1	4	M5D0412S - A	M5D0412N - A	CE
04	02-06	2	2	M5D0406S - A	M5D0406N - A	CJ
06	02-06	2	3	M5D0606S - A	M5D0606N - A	CJ
08	02-06	2	4	M5D0806S - A	M5D0806N - A	CJ

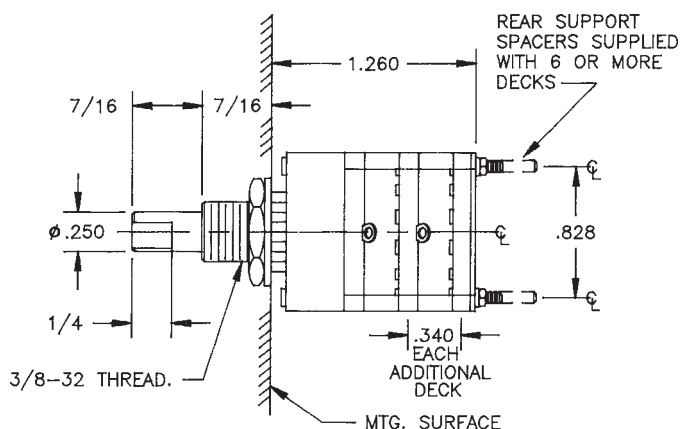
* FIGURES ARE SHOWN ON PAGE 55.

DIMENSIONS

STANDARD CONSTRUCTION



M5D - DIALYL PHTHALATE CONSTRUCTION



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How to Order Additional Options:

2 DIGIT SERIES	INSULATION TYPE	TOTAL POLES	ACTIVE POSITIONS	CONTACT TYPE	INDEX ANGLE	STOP TYPE	SHAFT/ BUSHING	SHAFT FLAT
M5	D - DIALLYL	01 - MIN.	12 - MAX @ 30° 10 - MAX @ 36° 08 - MAX @ 45° 06 - MAX @ 60° 04 - MAX @ 90°	S - SHORTING N - NON SHORTING	30° 36° 45° *60° *90°	F - FIXED A - ADJ. (30° AND 36° ONLY) C - CONT.	SEE CHART "A"	SEE CHART "B"

*NOT AVAILABLE IN SHORTING

CUSTOMERS SPECIFIED ORDER NUMBER FOR STANDARD OPTIONS					ADDITIONAL OPTIONS				
M	5	D							
			(SPECIFY)	(SPECIFY)	(SPECIFY)	(SPECIFY)	(SPECIFY)	(SPECIFY)	(SPECIFY)

SHAFT, BUSHING, AND FLAT OPTIONS

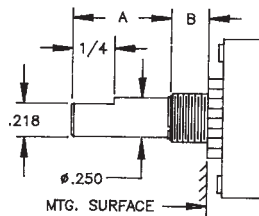
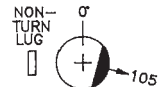


CHART "A"		
P/N OPT.	SHAFT LGTH. "A"	BUSH. LGTH. "B"
01	7/16	7/16
02	3/8	5/16

CHART "B"	
P/N OPT.	FLAT ANGLE
U	105°
B	ROUND

SHAFT AS VIEWED
WITH NON-TURN LUG
AT 9 O'CLOCK AND
SHAFT IN EXTREME
CCW POSITION AND
STRUT BOLTS
ORIENTED VERTICALLY.



U

CUSTOM SWITCHES ARE AVAILABLE. CONTACT THE FACTORY WITH YOUR COMPLETE SPECIFICATIONS.

M6 - SERIES

SPECIFICATIONS AND ORDERING INFORMATION

1 3/4" SQUARE 0.5 AMP @ 28 VDC

The M6 Series was originally designed to meet the requirements of MIL-S-3786/40. Standard construction includes 30° indexing up to 12 positions, solder lug terminals, and adjustable stops. Switching is available up to 32 positions.



SPECIFICATIONS

ELECTRICAL

Current and Voltage Rating: Make and break resistive load 0.5 amp @ 28 VDC; 0.125 amp @ 115 VAC.
Current Carrying Capacity: 10 amps.
Dielectric Strength: 1,500 VAC between current carrying parts and ground.
Contact Resistance: Average initial 10 milliohms.
Insulation Resistance: In excess of 1,000,000 megohms

Hardware: Mounting nut and lockwasher are shipped assembled.

MECHANICAL

Materials and Finishes: All parts utilize non-corrosive materials as standard.
Clips and Rotors: Silver alloy composite as standard.
Insulation: Glass epoxy.
Index: Dual-ball, hill and valley design.
Index Life: 25,000 cycles minimum.
Index Torque: Switches have lowest practical torque consistent with crisp detenting and smooth, reliable operation.
Index Angles: Positive 30° standard, 11.25°, 15°, and 22.5° available.
Index Stops: Adjustable standard, or continuous.
Stop Strength: 50 in. lbs. minimum.

STANDARD PART NUMBER

EPOXY GLASS INSULATION SWITCHES - 30° INDEXING
 ADJUSTABLE STOPS SET @ 2 POS. - SOLDER LUG TERMINALS

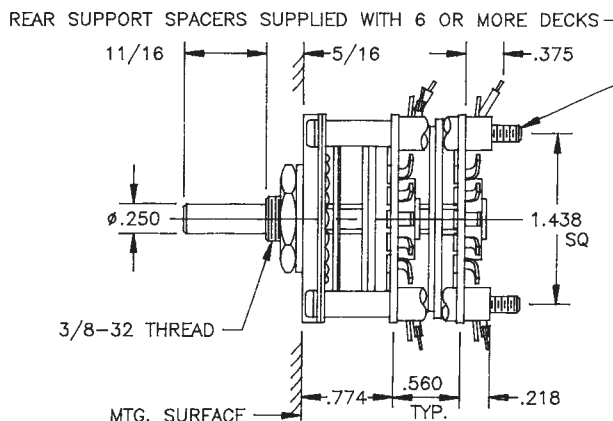
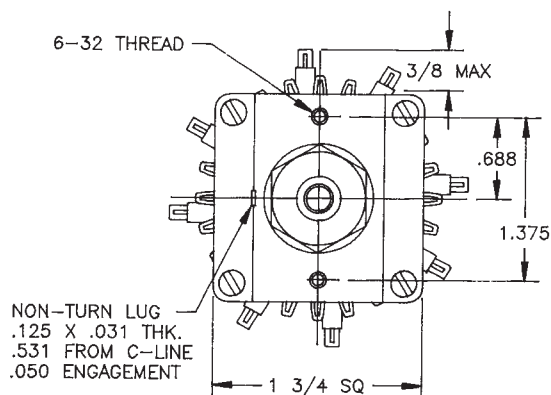
POLES	ACTIVE POSITIONS	POLES/ SECTION	NO. OF SECTIONS	SHORTING	NON-SHORTING	FIG. ★
01	02-12	1	1	M6G0112S	M6G0112N	MC
02	02-12	1	2	M6G0212S	M6G0212N	MC
02	02-06	2	1	M6G0206S	M6G0206N	MD
03	02-12	1	3	M6G0312S	M6G0312N	MC
04	02-12	1	4	M6G0412S	M6G0412N	MC
04	02-06	2	2	M6G0406S	M6G0406N	MD
06	02-06	2	3	M6G0606S	M6G0606N	MD
08	02-06	2	4	M6G0806S	M6G0806N	MD

* FIGURES ARE SHOWN ON PAGE 57.

DIMENSIONS

STANDARD CONSTRUCTION

M6G - GLASS EPOXY CONSTRUCTION



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How to Order Additional Options:

2 DIGIT SERIES	INSULATION TYPE	TOTAL POLES	ACTIVE POSITIONS	CONTACT TYPE
M6	G - GLASS	01 - MIN.	12 - MAX @ 30° 16 - MAX @ 22.5°	N - NON-SHORTING S - SHORTING

M6	G - GLASS	01 - MIN.	32 - MAX @ 11.5° 24 - MAX @ 15°	S - SHORTING
----	-----------	-----------	------------------------------------	--------------

TERMINAL TYPE	INDEX ANGLE	STOP TYPE	SHAFT/ BUSHING	SHAFT FLAT
L - SOLDER LUG R - REAR P.C.	11.5° 15° 22.5° 30°	A - ADJ. C - CONT.	SEE CHART "A"	SEE CHART "B"

CUSTOMERS SPECIFIED ORDER NUMBER FOR STANDARD OPTIONS					ADDITIONAL OPTIONS				
M	6	G							
			(SPECIFY)	(SPECIFY)	(SPECIFY)	(SPECIFY)	(SPECIFY)	(SPECIFY)	(SPECIFY)

SHAFT, BUSHING, AND FLAT OPTIONS

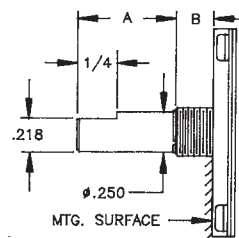
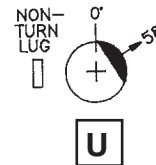


CHART "A"		
P/N OPT.	SHAFT LGTH. "A"	BUSH. LGTH. "B"
01	11/16	5/16
02	5/8	3/8

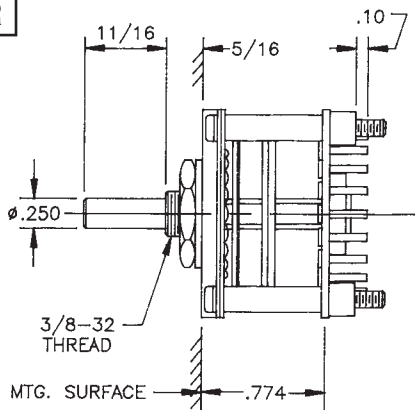
CHART "B"	
P/N OPT.	FLAT ANGLE
B	ROUND
U	58°

SHAFT AS VIEWED WITH NON-TURN LUG AT 9 O'CLOCK AND SHAFT IN EXTREME CCW POSITION AND STRUT BOLTS ORIENTED VERTICALLY.

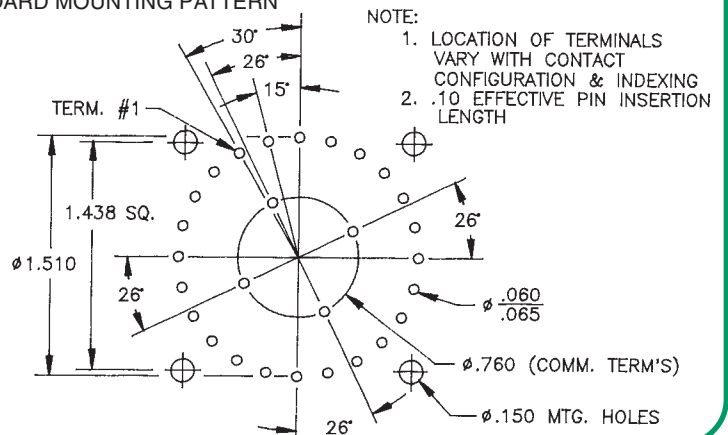


PRINTED CIRCUIT BOARD OPTIONS

R



P.C. BOARD MOUNTING PATTERN



- NOTE:
1. LOCATION OF TERMINALS VARY WITH CONTACT CONFIGURATION & INDEXING
 2. .10 EFFECTIVE PIN INSERTION LENGTH

CUSTOM SWITCHES ARE AVAILABLE. CONTACT THE FACTORY WITH YOUR COMPLETE SPECIFICATIONS.

M7 - SERIES

SPECIFICATIONS AND ORDERING INFORMATION

2 1/2" SQUARE 0.5 AMPS @ 28 VDC

The M7 Series was originally designed to meet the requirements of MIL-S-3786/15. Standard construction includes 15° indexing up to 24 positions, adjustable stops and solder lug terminals. Switching is available with up to 48 positions. A very reliable switch for critical applications.



SPECIFICATIONS

ELECTRICAL

Current and Voltage Rating: Make and break resistive load 0.5 amp @ 28 VDC; 0.125 amp @ 115 VAC.
Current Carrying Capacity: 10 amps.
Dielectric Strength: 1,500 VAC between current carrying parts and ground.
Contact Resistance: Average initial 10 milliohms.
Insulation Resistance: In excess of 1,000,000 megohms

Hardware: Mounting nut and lockwasher are shipped assembled.

MECHANICAL

Materials and Finishes: All parts utilize non-corrosive materials as standard.
Clips and Rotors: Silver alloy composite as standard.
Insulation: Glass epoxy.
Index: Dual-ball, hill and valley design.
Index Life: 25,000 cycles minimum.
Index Torque: Switches have lowest practical torque consistent with crisp detenting and smooth, reliable operation.
Index Angles: Positive 15° standard, 7.5° available.
Index Stops: Adjustable standard, or continuous.
Stop Strength: 50 in. lbs. minimum.

STANDARD PART NUMBER

EPOXY GLASS INSULATION

SWITCHES - 15° INDEXING

ADJUSTABLE STOPS SET @ 2 POS. - SOLDER LUG TERMINALS

POLES	ACTIVE POSITIONS	POLES/ SECTION	NO. OF SECTIONS	SHORTING	NON-SHORTING	FIG. *
01	02-24	1	1	.....	M7G0124N	ME
02	02-24	1	2	.....	M7G0224N	ME
02	02-12	2	1	.....	M7G0212N	MF
03	02-24	1	3	.....	M7G0324N	ME
04	02-12	2	2	.....	M7G0412N	MF
03	02-06	3	1	.....	M7G0306N	MG
06	02-12	2	3	.....	M7G0612N	MF
09	02-06	3	3	.....	M7G0906N	MG
12	02-06	4	3	.....	M7G1206N	MH

EPOXY GLASS INSULATION

SWITCHES - 7.5° INDEXING

ADJUSTABLE STOPS SET @ 2 POS. - SOLDER LUG TERMINALS

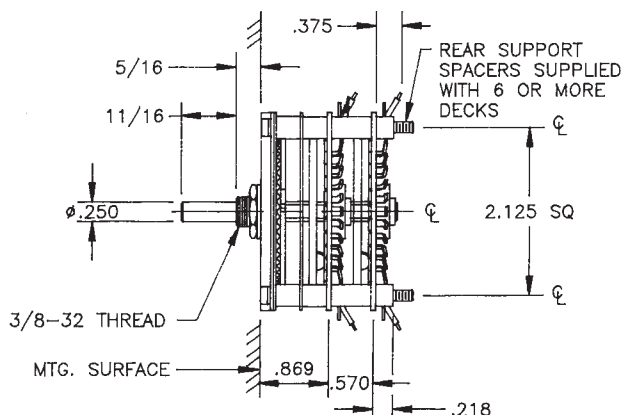
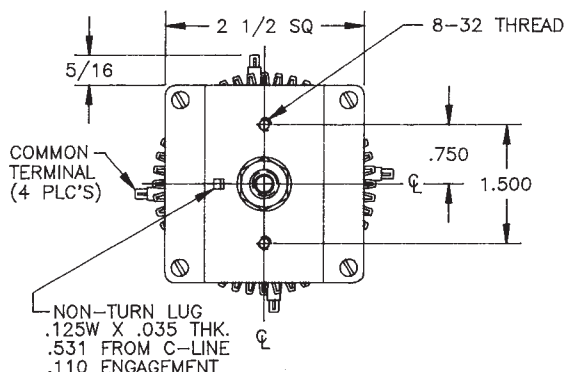
POLES	ACTIVE POSITIONS	POLES/ SECTION	NO. OF SECTIONS	SHORTING	NON-SHORTING	FIG. *
01	02 - 48	1	1	.....	M7G0148S-75	MI

* FIGURES ARE SHOWN ON PAGE 57.

DIMENSIONS

STANDARD CONSTRUCTION

M7G - GLASS EPOXY CONSTRUCTION



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How to Order Additional Options:

2 DIGIT SERIES	INSULATION TYPE	TOTAL POLES	ACTIVE POSITIONS	CONTACT TYPE	TERMINAL TYPE	INDEX ANGLE	STOP TYPE	SHAFT/ BUSHING	SHAFT FLAT
M7	G - GLASS	01 - MIN.	48 - MAX @ 7.5°	S - SHORTING		7.5° 15°	A - ADJ. C - CONT.	SEE CHART "A"	SEE CHART "B"
M7	G - GLASS	01 - MIN.	24 - MAX @ 15°	N - NON-SHORTING					

CUSTOMERS SPECIFIED ORDER NUMBER FOR STANDARD OPTIONS					ADDITIONAL OPTIONS				
M	7	G							
			(SPECIFY)	(SPECIFY)	(SPECIFY)	(SPECIFY)	(SPECIFY)	(SPECIFY)	(SPECIFY)

SHAFT, BUSHING, AND FLAT OPTIONS

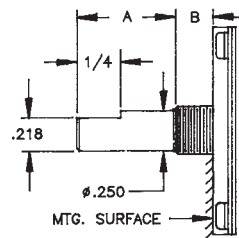


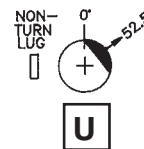
CHART "A"		
P/N OPT.	SHAFT LGTH. "A"	BUSH. LGTH. "B"
01	11/16	5/16
02	1	0

- STD

CHART "B"	
P/N OPT.	FLAT ANGLE
B	ROUND
U	52.5°

- STD

SHAFT AS VIEWED WITH NON-TURN LUG AT 9 O'CLOCK AND SHAFT IN EXTREME CCW POSITION AND STRUT BOLTS ORIENTED VERTICALLY.



CUSTOM SWITCHES ARE AVAILABLE. CONTACT THE FACTORY WITH YOUR COMPLETE SPECIFICATIONS.

SECTION ASSEMBLIES AVAILABLE SEPARATE

POLES	NO. OF POSITIONS	POLES/ SECTION	INDEX ANGLE	SHORTING PART NUMBERS	NON- SHORTING PART NUMBERS	FIG.
D2D - SERIES DIALYL PHTHALATE INSULATION						
01	02-12	1	30°	D2D-50	D2D-51	DE
02	02-06	2	30°	D2D-52	D2D-53	DL
03	2-05	3	30°	D2D-54	D2D-55	DO
05	2-03	5	30°	D2D-56	D2D-57	DR
D2C - SERIES CERAMIC INSULATION						
01	2-11	1	30°	D2C-20	D2C-21	DB
02	2-05	2	30°	D2C-22	D2C-23	DG
03	2-03	3	30°	D2C-24	D2C-25	DN
04	02	4	30°	D2C-26	D2C-27	DQ
D3C - SERIES CERAMIC INSULATION						
01	2-11	1	30°	D3C-80	D3C-81	DA
02	2-05	2	30°	D3C-82	D3C-83	DH
D4C - SERIES CERAMIC INSULATION						
01	02-12	1	30°	D4C-0	D4C-1	DD
02	02-06	2	30°	D4C-2	D4C-3	DL
03	02-05	3	30°	D4C-4	D4C-5	DO
05	02-03	5	30°	D4C-6	D4C-7	DR
06	02	6	30°	D4C-8	D4C-9	DS
01	02-06	1	60°	D4C-20	D4C-17	DJ
D4G - SERIES GLASS EPOXY INSULATION						
01	2-11	1	30°	D4G-30	D4G-31	DA
02	2-05	2	30°	D4G-32	D4G-33	DG
03	2-03	3	30°	D4G-34	D4G-35	DM
04	2	4	30°	D4G-36	D4G-37	DP
D7C - SERIES CERAMIC INSULATION						
01	2-06	1	30°	D7C-SXD	D7C-XD	DI
01	2-11	1	30°	D7C-SYD	D7C-YD	DB
02	2-05	2	30°	D7C-SRRD	D7C-RRD	DF
01	2-06	1	60°	D7C-SZZD	D7C-ZZD	DK
D7G - SERIES GLASS EPOXY INSULATION						
01	2-11	1	30°	D7G-BD	D7G-JD	DB
02	2-05	2	30°	D7G-SKD	D7G-KD	DH
E4C - SERIES CERAMIC INSULATION						
01	2-17	1	20°	E4C-8	E4C-N8	EA
02	2-08	2	20°	E4C-10	E4C-N10	EB
03	02-05	3	20°	E4C-9	E4C-N9	EC

INDEX ASSEMBLIES AVAILABLE SEPARATE

INDEX ANGLE	NO. OF POSITIONS	NO. OF SECTIONS	PART NUMBERS	PAGE NUMBER
D2 - SERIES				
30°	02-12	1-2	D2-512	20, 21
30°	02-12	3-5	D2-513	20, 21
D3 - SERIES				
30°	02-11	1-4	D3-600	22, 23
D4 - SERIES				
30°	02-12	1-3	D4-300	24, 25
30°	02-12	4-6	D4-301	24, 25
30°	02-12	7-9	D4-302	24, 25
60°	02-06	1-3	D4-304	24, 25
60°	02-06	4-6	D4-305	24, 25
D7 - SERIES				
30°	02-11	1-3	D7-270	30, 31
30°	02-11	4-5	D7-271	30, 31
30°	02-11	6-10	D7-272	30, 31
60°	02-06	1-2	D7-273	30, 31
60°	02-06	3-8	D7-275	30, 31
E4 - SERIES				
20°	02-17	1-6	E4-7	40, 41

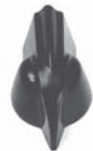
KNOBS AND DIAL PLATES

KNOBS



Part Number	1910DG	1400R	1202BJ	1930BP	1922	1914N
Switch Type	Rotary	Rotary	Rotary	Rotary	Rotary	Rotary
Shaft Diameter	0.125	0.125	0.250	0.250	0.250	0.250
Description	Inner knob with skirt and spun silver color cap	Pointer knob with one set screw	Round knob with spun silver color cap and one set screw	Large round knob with skirt and one set screw	Outer knob for dual concentric designs	Round knob with brass insert and one set screw
Overall Length	0.75	0.82	0.75	1.50	1.06	0.75

KNOBS



Part Number	P 2300	5149A	SSKW	SSKB		
Switch Type	Rotary	Lever	Lever	Lever		
Shaft Diameter	0.250	0.187x0.050	0.187x0.060	0.187x0.060		
Description	Pointer knob with one set screw	Oval knob push on design	Switch tip push on design-white	Switch tip push on design-black		
Overall Length	1.25	0.79	0.35 Dia.	0.35 Dia.		

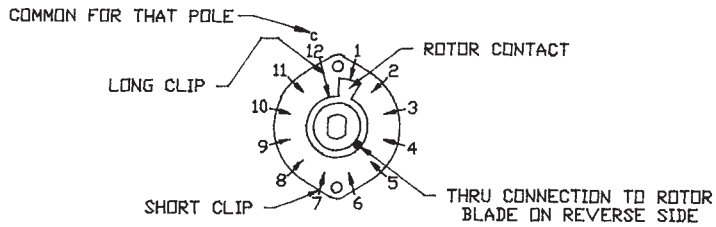
DIAL PLATES



Part Number	P173	P230	P232	P231*	P115	P117	P118	P112
Switch Angle	15°	20°	20°	20°	30°	30°	30°	30°
Numbering Description	1-23	1-5	1-8	1-17	1-5	1-10	1-11	1-12
Plate Diameter	1.87	2.75	2.75	2.75	1.87	1.87	1.87	1.87

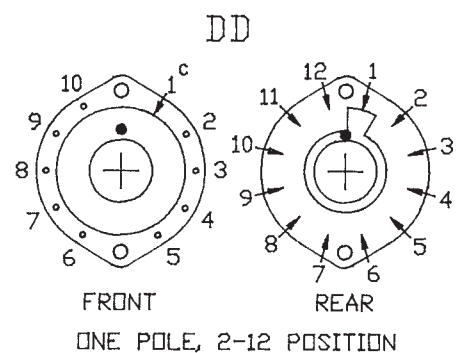
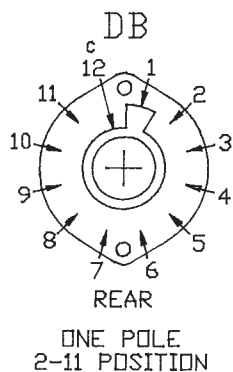
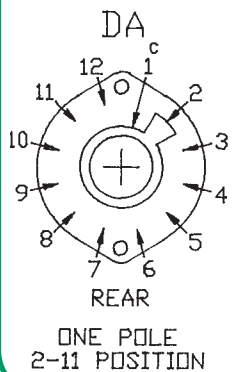
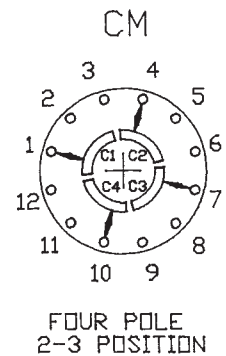
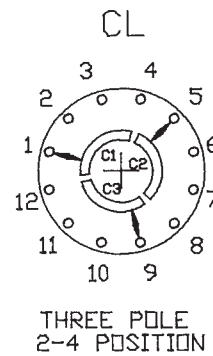
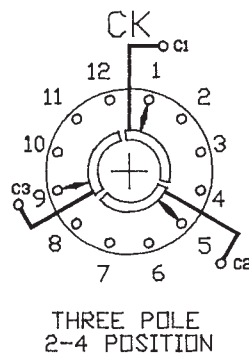
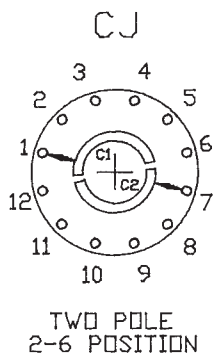
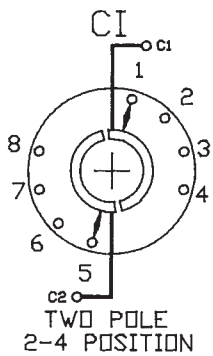
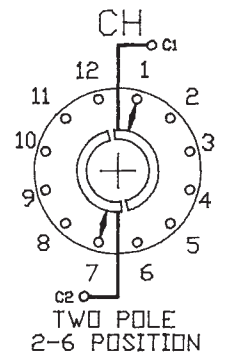
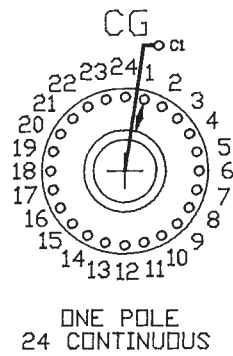
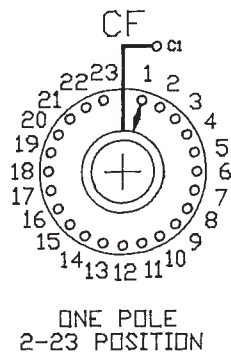
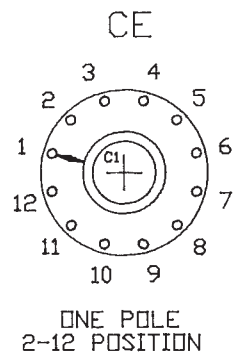
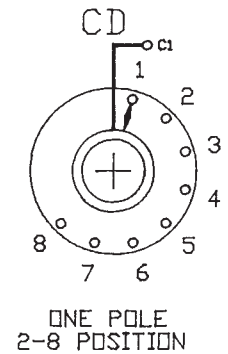
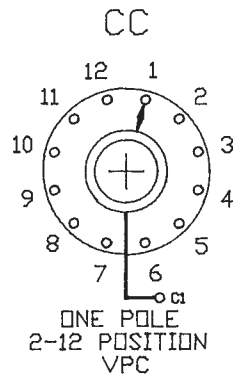
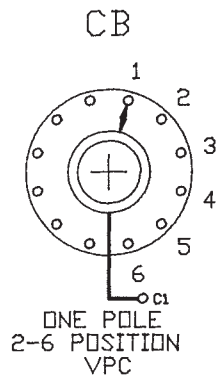
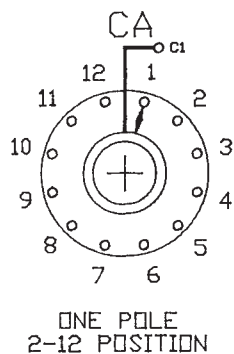
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FIGURES/CIRCUIT DIAGRAMS

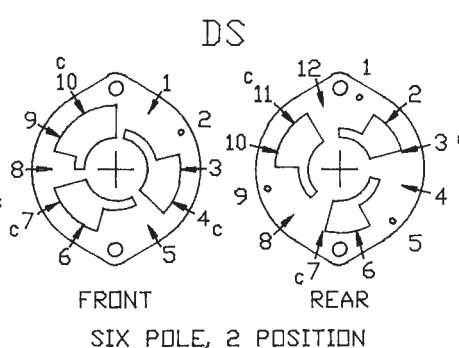
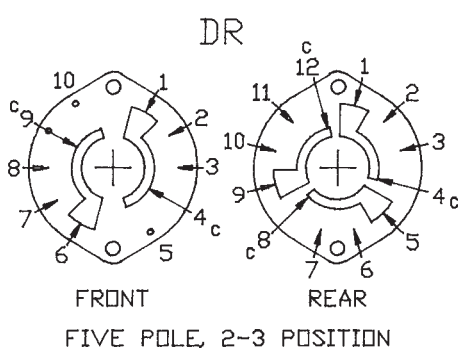
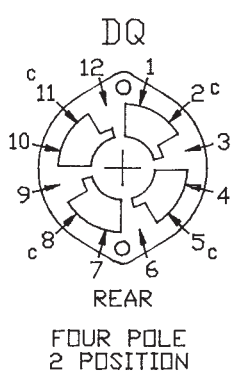
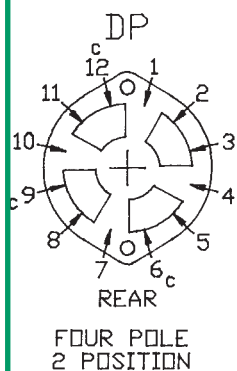
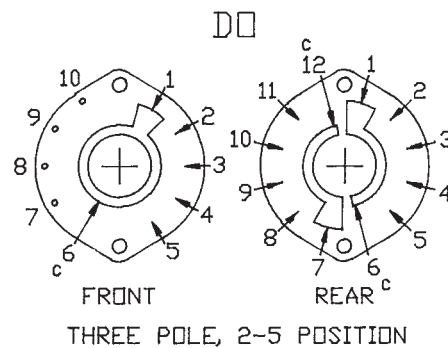
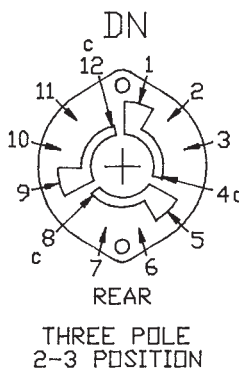
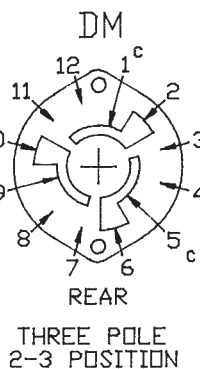
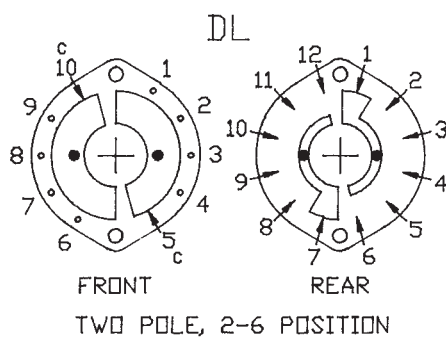
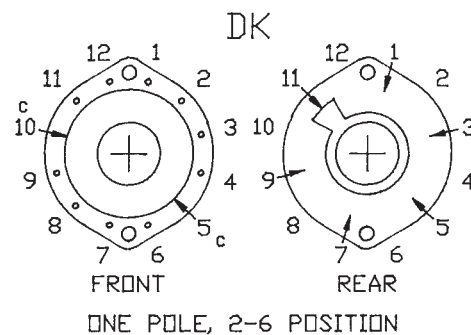
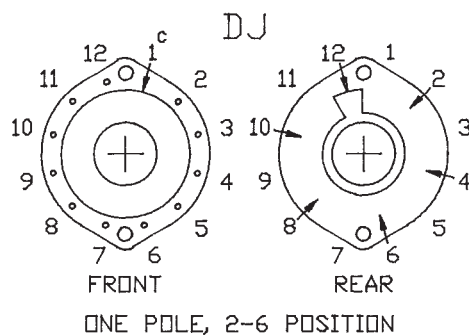
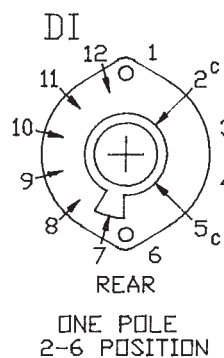
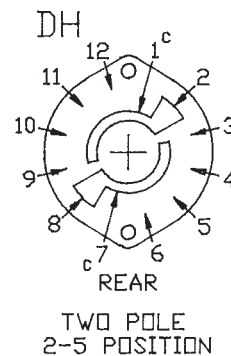
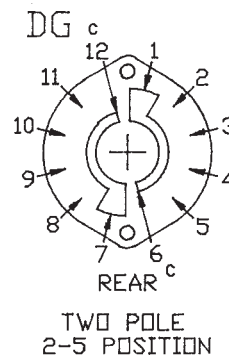
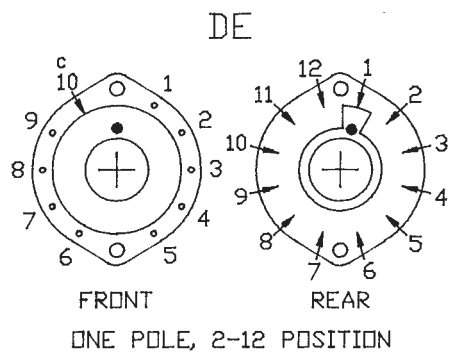


ALL DIAGRAMS ARE DRAWN AS VIEWED FROM THE KNOB END OF THE SWITCH, WITH THE LOCATING LUG IN THE 9 O'CLOCK POSITION AND THE SHAFT IN THE EXTREME COUNTER CLOCKWISE POSITION.

THE 'REAR' SIDE DIAGRAM OF THE SECTION IS VIEWED AS TRANSPARENT FROM THE KNOB END.

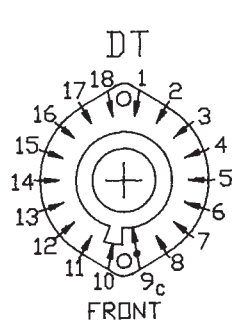


FIGURES/CIRCUIT DIAGRAMS

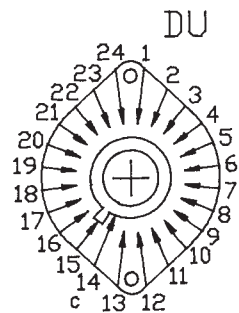


VIEWED FROM THE KNOB END OF SWITCH

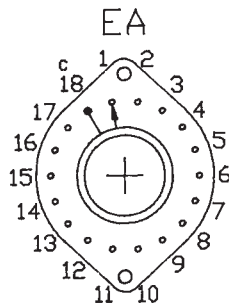
FIGURES/CIRCUIT DIAGRAMS



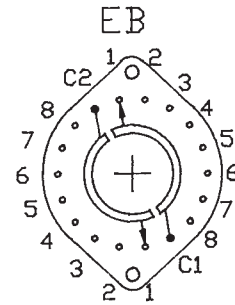
ONE POLE
2-17 POSITION



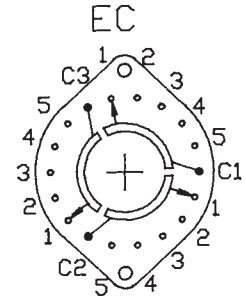
ONE POLE
2-23 POSITION



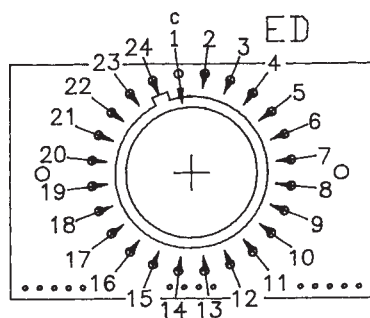
ONE POLE
2-17 POSITION



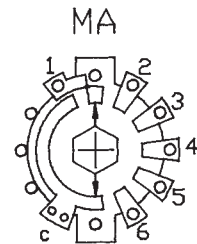
TWO POLE
2-8 POSITION



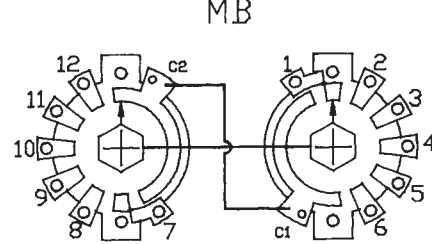
THREE POLE
2-5 POSITION



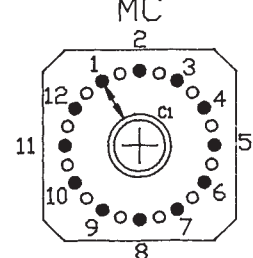
ONE POLE, 2-23 POSITION



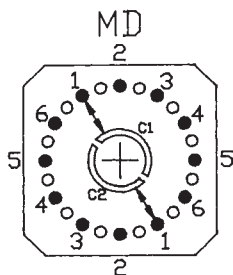
ONE POLE
2-6 POSITION



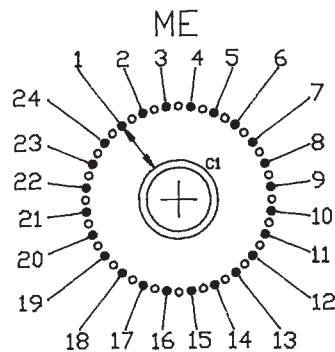
ONE POLE, 2-12 POSITION



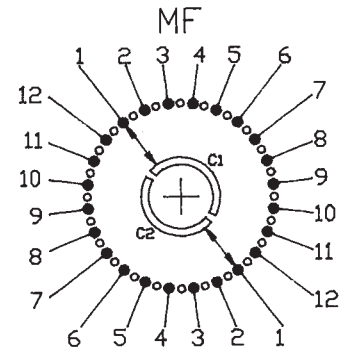
ONE POLE
2-12 POSITION



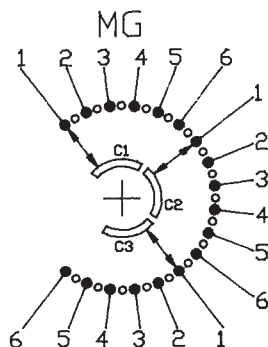
TWO POLE
2-6 POSITION



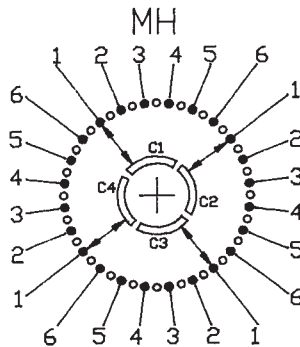
ONE POLE, 2-24 POSITION



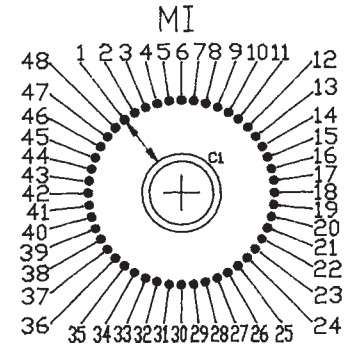
TWO POLE, 2-12 POSITION



THREE POLE, 2-6 POSITION



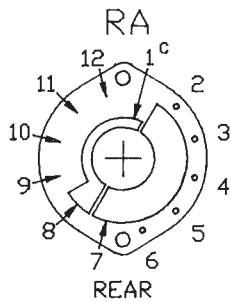
FOUR POLE, 2-6 POSITION



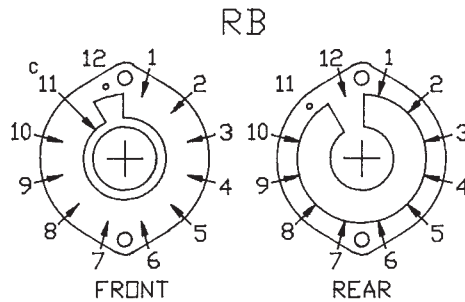
ONE POLE, 2-48 POSITION

VIEWED FROM THE KNOB END OF SWITCH

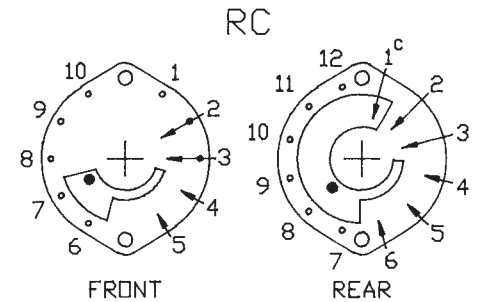
REFERENCE FIGURES/CIRCUIT DIAGRAMS



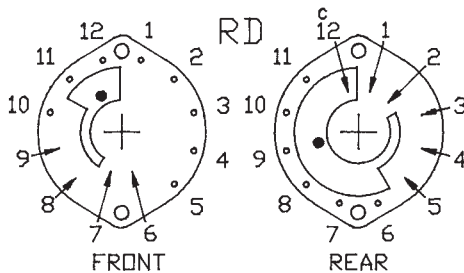
ONE POLE, 2-5 POSITION.
UNUSED CLIPS ARE PROGRESSIVELY
SHORTED BY SEPARATE CONTACT
WITH CW ROTATION.



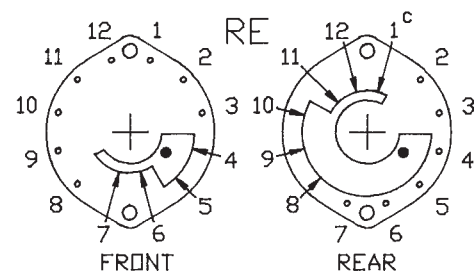
TWO POLE, 2-11 POSITION
ALL UNUSED CLIPS CONNECTED
AND SHORTED OUT.



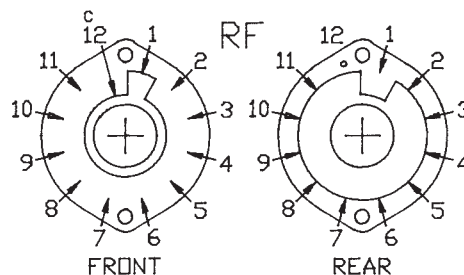
ONE POLE, 2-10 POSITION. NINE
ACTIVE CLIPS, ALL OPEN IN FULL
CCW POSITION AND PROGRESSIVELY
PICKED UP AND SHORTED TO COMMON
CONTACT WITH CW ROTATION.



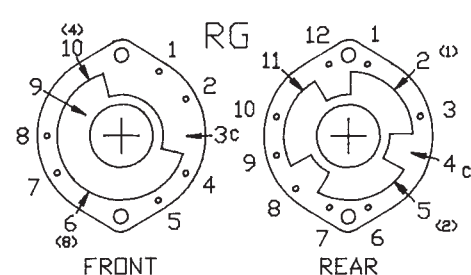
ONE POLE, 2-10 POSITION. NINE ACTIVE CLIPS,
ALL OPEN IN FULL CCW POSITION AND
PROGRESSIVELY PICKED UP AND SHORTED TO
COMMON CONTACT WITH CW ROTATION.



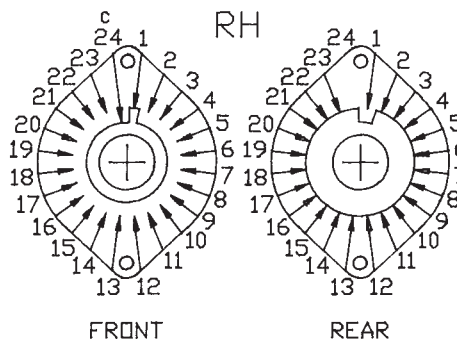
ONE POLE, 2-10 POSITION. NINE ACTIVE
CLIPS, ALL SHORTED TO COMMON CONTACT
IN FULL CCW POSITION AND PROGRESSIVELY
OPENED AND DROPPED WITH CW ROTATION.



TWO POLE, 2-11 POSITION
ALL UNUSED CLIPS CONNECTED
AND SHORTED OUT



BCD OR COMPLEMENT



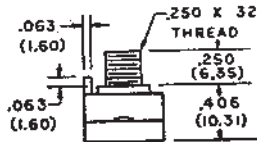
TWO POLE, 2-23 POSITION.
ALL UNUSED CLIPS CONNECTED
AND SHORTED OUT.

VIEWED FROM THE KNOB END OF SWITCH

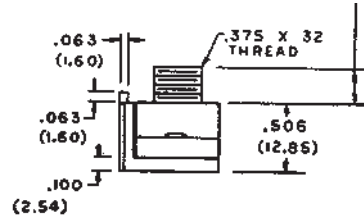
PANEL CUTOUTS

C1 SERIES

STANDARD - TWO PIECE
(FOR .125" DIA. SHAFT)

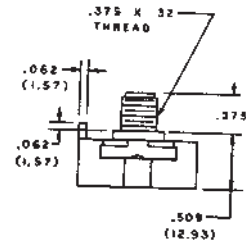


OPTIONAL - ONE PIECE
(FOR .250" DIA. SHAFT)

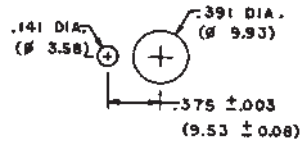
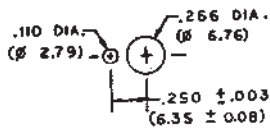
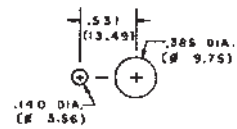


C4 SERIES

STANDARD - ONE PIECE

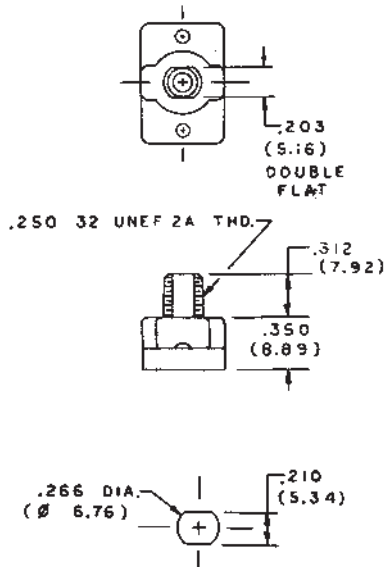


ONE PIECE
DIE CAST

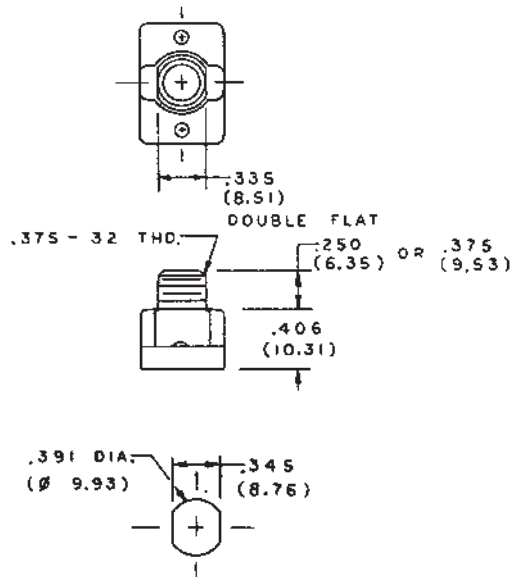


C2/C3 SERIES

STANDARD - 1/4 - 32 THD.

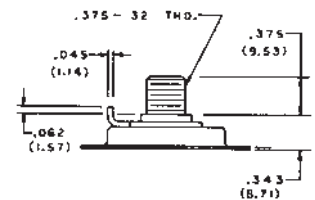


OPTIONAL - 3/8 - 32 THD.

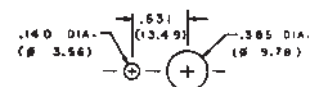


C7 AND E5 SERIES

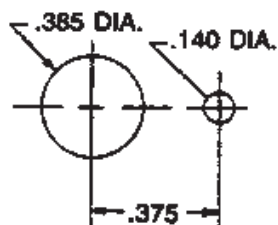
STANDARD



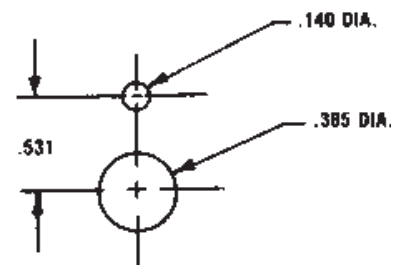
BRASS BUSHING/STEEL
HSG.



M4 SERIES



M6 AND M7 SERIES



OPERATING TEMPERATURE RANGE

The following chart shows minimum and maximum operating temperatures for standard product, in degrees Celsius, by switch series.

C1	-17° to +75°
C2/C3	-17° to +75°
C4	-17° to +75°
C5/C6	-17° to +75°
C7	-17° to +75°
D1	-65° to +125°
D2	-65° to +125°
D3	-65° to +125°
D4	-65° to +125°
D5	-65° to +125°
D6	-65° to +125°
D7	-65° to +125°
D8	-65° to +125°
D9	-65° to +125°
E1	-65° to +125°
E2	-65° to +125°
E3	-65° to +125°
E4	-65° to +125°
E5	-65° to +125°
M4	-65° to +125°
M5	-65° to +125°
M6	-65° to +125°
M7	-65° to +125°

ADDITIONAL PRODUCTS & MANUFACTURERS

Toggles: NKK Electroswitch
 E Series A Series
 M Series A Series
 M2T Series A Series
 WT Series WT Series

Rockers: M. Series B Series
 M2T Series WR Series
 WR Series WR Series

Pushbuttons: EB Series PS Series
 FB Series SA1 Series

Toggles: Carling Electroswitch
 2M1 Series A Series
 2MS Series WT Series

Rockers: 1M1 Series B Series
 1MS Series WR Series

Pushbuttons: 3MN Series PS Series
 3MA Series PS Series

Toggles: Grayhill Electroswitch
 34A Series A Series
 34B Series WT Series

Rockers: 47A Series B Series
 47B Series WR Series

Pushbuttons: 39-2 Series SA1 Series

Toggles: APEM Electroswitch
 5000 Series A Series
 S / ST Series WT Series

Rockers: 7000 Series B Series
 S / SR Series WR Series

Pushbuttons: 1800 Series PS Series
 800 PS
 PB PB

Encoders: Bourns Electroswitch
 EN Series 900 Series
 ECW Series 700 Series
 EAW Series 700 Series

Encoders: Grayhill Electroswitch
 62 Series OE2 Series
 61A, B, C OE2 Series
 61S, K, R 900 Series
 63K, R 900 Series
 25 Series MMP/REL
 25L Series 700 Series

Rotaries: 42, 43 M5/C4
 44, 45, 54 M5/C4

Encoders: Clarostat Electroswitch
 510 Series 700 Series
 600 900 Series

Indicator Lights: Dialight Electroswitch
 252-9951- LHC82
 270-1930- MS25010A
 800-1030- MS25041
 804-1710- MS25331
 128-09 LC35
 178-03 LC11
 162-09 LC12
 230-03 LC25
 162-14 LC29
 130-09 LC33

Solenoids Tubular, Box Frame, and Rotary
 Guardian
 Deltrol Controls
 Ledex
 SAI Burgess
 Dormeyer

About ELECTRO SWITCH Corp.

ELECTRO SWITCH Corp. was founded in 1946 to manufacture rotary switches primarily for Naval ships where ruggedness was needed to withstand the high-shock, vibration, and shipboard environments. This business was expanded to include nuclear reactor control and missile control applications, including sophisticated motorized units that were integrated with shipboard computer controls. Rigorous testing to military specifications such as MIL-S-6807, MIL-S-15291, MIL-S-21604 and MIL-S-24187 combined with a MIL-Q-9858 quality program ensured high quality, high reliability products.

The company branched out into specialized industrial switching areas such as locomotives, earth-moving equipment, and engine-generators where the ruggedness and high reliability of ELECTRO SWITCH products were needed. UL and CSA certifications were obtained using UL1054, UL508, and CSA22.2 specifications.

This led the company to the electrical utility industry where control switches, lock-out relays, and other auxiliary relay devices were developed and qualified to ANSI/IEEE and NEMA standards including nuclear. Electro Switch is now considered “first-choice” in this industry.

The ability to custom design rotary switches and relay products to precisely fit every application has taken the company into many unique applications. The opportunity to choose from many different types of switches enables the company to provide the best product for every application – fully qualified at the lowest cost to the consumer.

About ELECTROSWITCH Electronic Products

A separate manufacturing unit was set up in 1986 to provide the electronic applications customer the same kind of variety, quality, reliability, and value that had become an Electro Switch Corp. trademark. Combining the best products from Shallcross, Stackpole, ASM, Centralab/CRL, and Oak Grigsby, the ELECTROSWITCH unit provides an enviable line-up of products to satisfy nearly every electronic application. These have been supplemented by new designs for better PC insert applications and lever-switch designs. Mirroring the parent company's constant striving to be the best supplier of switches, the ELECTROSWITCH unit has applied the same sound design, careful manufacturing, and rigid quality control techniques to ensure complete customer satisfaction. After all, with a product line as specialized as ours and as critical in their application, we have to do the job right the first time...and every time...to support our customers' demands for the highest quality and reliability.



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