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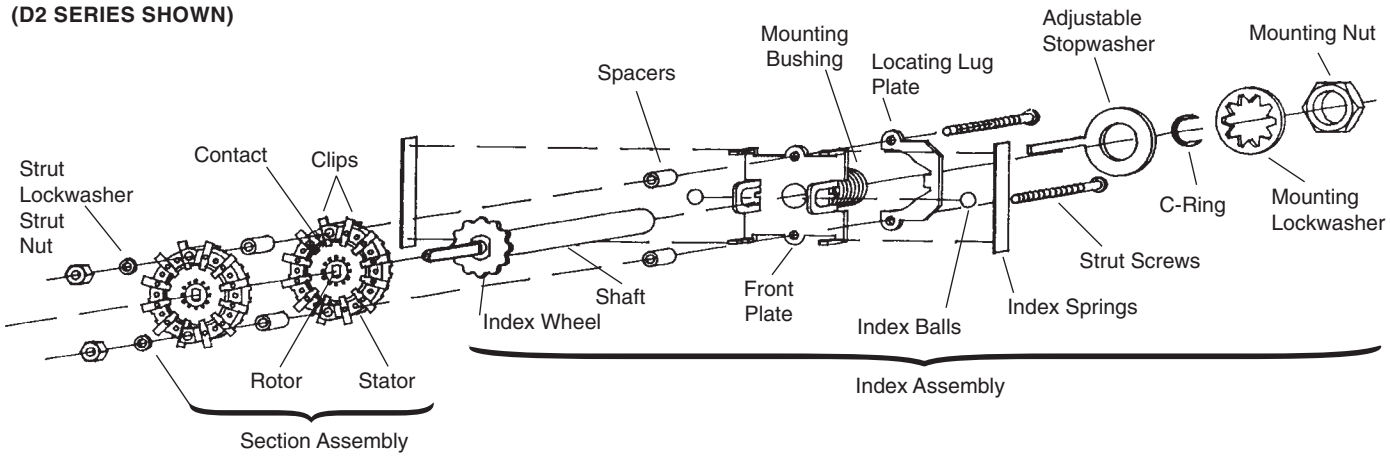
EXPLODED VIEWS AND GLOSSARY

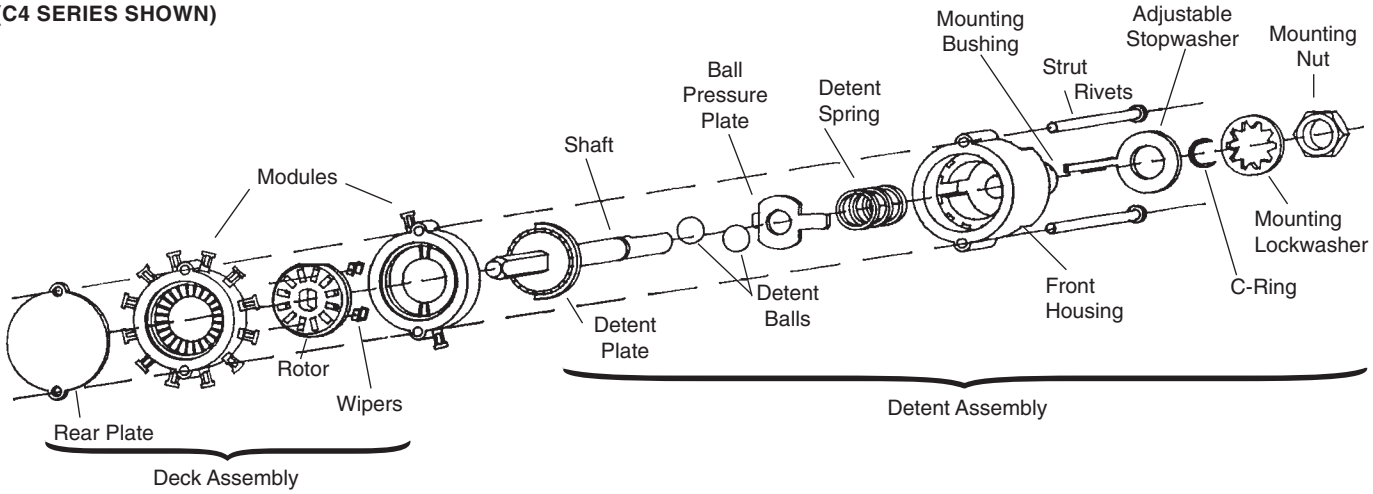
EXAMPLE OF OPEN FRAME CONSTRUCTION

(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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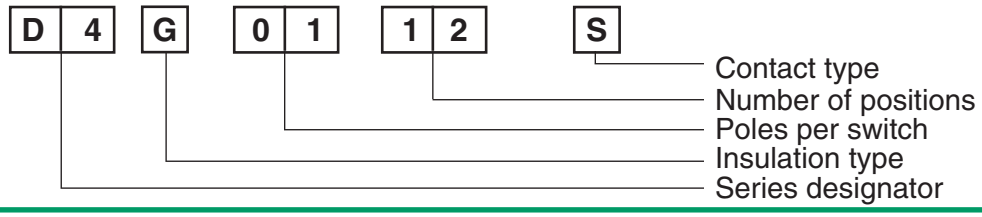
ORDERING METHODS

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.

Example: D4G0112S



■ 2. Use the "How to Order Additional Options" section located with each series to specify the switch requirements with standard options.

Example: D4G0902S

Specify additional pole and position options not listed in our standard part numbering section

■ 3. Use the "How to Order Additional Options" to add additional options to either a standard part number or a standard option part number.

Example: D4G0902S – R 3 6 F 0 1 Z

Options
Shaft flat angle
Shaft & bushing lengths
Fixed stops
Index angle
Rear PC Mount

■ 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
E	**Current and Voltage**	0.1A @ 125 VAC	0.1A @ 125 VAC	0.1A @ 125 VAC	0.3A @ 125 VAC	1.0A @ 125 VAC	0.5A @ 125 VAC
L		0.25A @ 28 VDC	0.25A @ 28 VDC	0.25A @ 28 VDC	0.5A @ 28 VDC	1.0A @ 28 VDC	1.0A @ 28 VDC
E	**Current Carrying Capacity**	6A	6A	6A	15A	5A	25A
C	**Dielectric Strength**	600 VAC	1,000 VAC	1,000 VAC	1,000 VAC	1,000 VAC	1,000 VAC
T	**Insulation Resistance**	10,000	10,000	10,000	10,000	10,000	10,000
R	**(megohms)**						
I	**Contact Resistance**	5	30	30	3	20	3
C	**(milliohms)**						
A							
L							
M	**Insulation** - Glass Epoxy	NO	NO	NO	YES ★	NO	NO
A	Diallyl Phthalate	STANDARD	NO	NO	STANDARD	NO	STANDARD
T	Ceramic	NO	NO	NO	NO	NO	NO
E	Polyester	NO	STANDARD	STANDARD	NO	STANDARD	NO
R							
I	**Contacts** - Silver Alloy ★	YES	NO	NO	YES	NO	YES
A	Brass/Silver Plate	STANDARD	STANDARD	STANDARD	STANDARD	STANDARD	STANDARD
L							
M	**Stop Strength**	8 in. lb.	8 in. lb.	8 in. lb.	25 in. lb.	4.5 in. lb.	25 in. lb.
E	**Mechanical Life**	25,000 cycles	25,000 cycles	25,000 cycles	25,000 cycles	10,000 cycles	25,000 cycles
C	**Detenting Angles: 15°**	—	—	—	—	—	15
H							
A	**30°**	30	30	30	30	30	30
N	**36°**	—	—	—	36	—	—
I	**45°**	—	—	—	45	—	—
C	**60°**	60	60	60	60	—	60
A	**90°**	90	90	90	90	—	90
L							
O	**Quick Connect**	NO	NO	NO	YES	NO	YES
P	**Rear PC Mount**	YES	NO	NO	YES	YES	NO
T	**Vertical PC Mount ★**	YES	YES	YES	YES	NO	NO
I	**Front PC Mount ★**	NO	NO	NO	YES	NO	NO
O	**Dual Concentric Designs ★**	YES	YES	YES	YES	NO	YES
N	**Keylock ★**	YES	YES	YES	YES	NO	YES
S	**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:

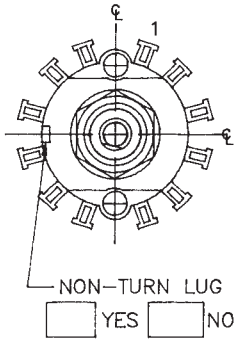
☐ SHORTING OR ☐ NON-SHORTING

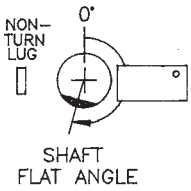
CURRENT CARRYING CAPACITY

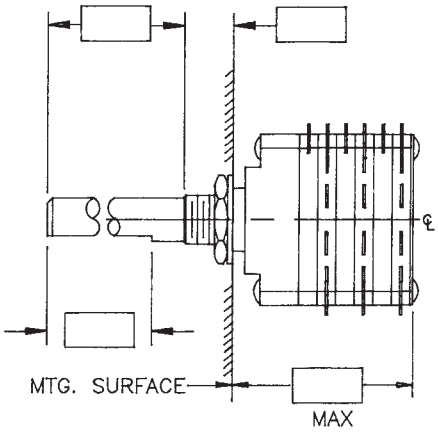
INTERRUPTING CURRENT

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:

ELECTROSWITCH
• ELECTRONIC PRODUCTS
UNIT OF ELECTRO SWITCH CORP.

2010 YONKERS ROAD, RALEIGH, NC 27604

FAX TRANSMISSION

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(800) 909-9171
FOR ASSISTANCE
PLEASE CALL:
(919) 833-0707
(888) ROTARYS

Sender Information

Date: _____ Time: _____

Name: _____

Company: _____

Address: _____

_____

Ph #: _____

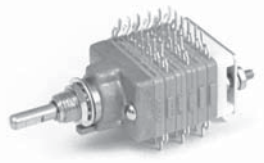
Fax #: _____

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.



C

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.

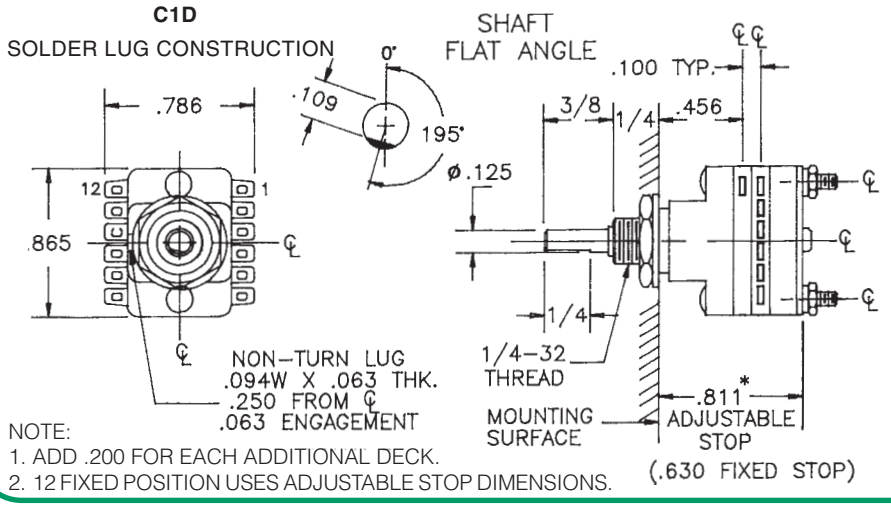
POLES	ACTIVE POSITIONS	POLES/ DECK	NO. OF DECKS	SHORTING	NON-SHORTING	FIG. *
01	02-12	1	1	C1D0112S - A	C1D0112N - A	CA
02	02-12	1	2	C1D0212S - A	C1D0212N - A	CA
02	02-06	2	1	C1D0206S - A	C1D0206N - A	CH
03	02-12	1	3	C1D0312S - A	C1D0312N - A	CA
03	02-04	3	1	C1D0304S - A	C1D0304N - A	CK
04	02-06	2	2	C1D0406S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

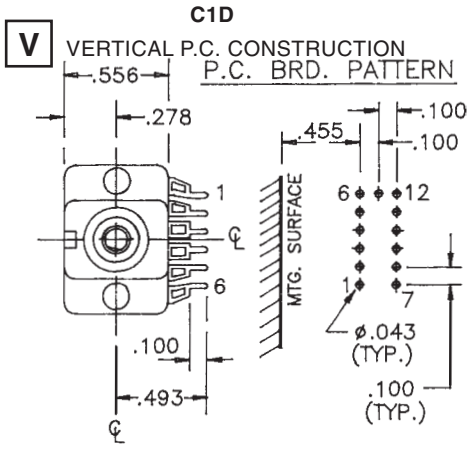
VERTICAL P.C. TERMINALS - ADJUSTABLE STOPS
SWITCHES - 30° INDEXING - STOPS SET @ 2 POS.

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





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C1 - SERIES

How to Order Additional Options:

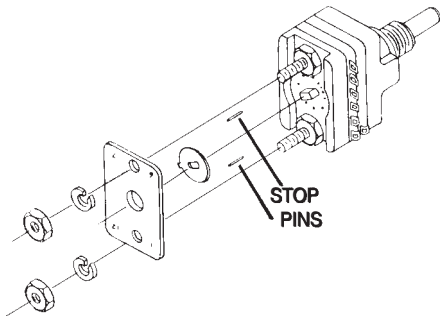
2 DIGIT SERIES	INSULATION TYPE	TOTAL POLES	ACTIVE POSITIONS	CONTACT TYPE
C1	D - DIALLYL	01 - MIN.	12 - MAX @ 30° 06 - MAX @ 60° 04 - MAX @ 90°	N - NON-SHORTING S - SHORTING

TERMINAL TYPE	INDEX ANGLE	STOP TYPE
L - SOLDER LUG V - VERT. P.C.	30° 60° 90°	F - FIXED C - CONT. A - ADJ.
R - REAR P.C.	30° 60° 90°	F - FIXED C - CONT.

SHAFT/ BUSHING	SHAFT FLAT
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)	(SPECIFY)

ADJUSTABLE STOP MECHANISM



SHAFT, BUSHING, AND FLAT OPTIONS

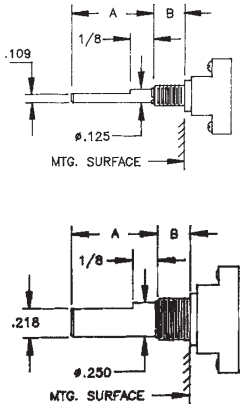
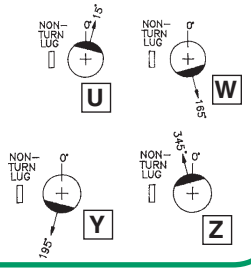


Chart A 1/8" shaft		
P/N OPT	Shaft Lgth	Bush Lgth
01	3/8	1/4
02	3/8	3/8
03	1/2	1/4
04	1/2	3/8
05	9/16	1/4
06	9/16	3/8
07	5/8	1/4
08	5/8	3/8
09	3/4	1/4
10	3/4	3/8
11	7/8	1/4
12	7/8	3/8
13	1	1/4
14	1	3/8
Chart A 1/4" shaft		
P/N OPT	Shaft Lgth	Bush Lgth
15	3/8	1/4
16	3/8	3/8
17	1/2	1/4
18	1/2	3/8
19	3/4	1/4
20	3/4	3/8
21	1	1/4
22	1	3/8

CHART "B"

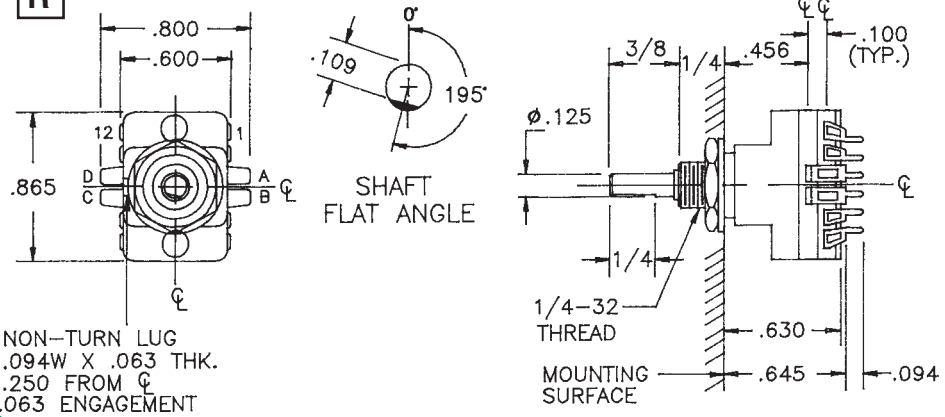
P/N OPT.	FLAT ANGLE	
U	15°	
W	165°	
Y	195°	- STD.
Z	345°	

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

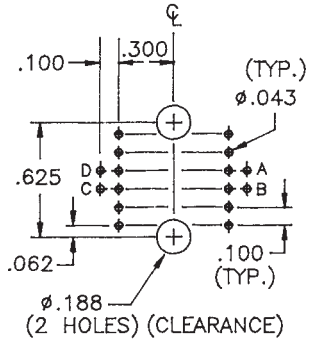


PRINTED CIRCUIT BOARD TERMINAL OPTIONS

R REAR P.C. FIXED STOP CONSTRUCTION



P.C. BRD. PATTERN



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

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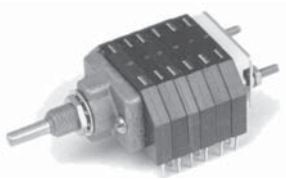
C2/C3 - SERIES

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.



C

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

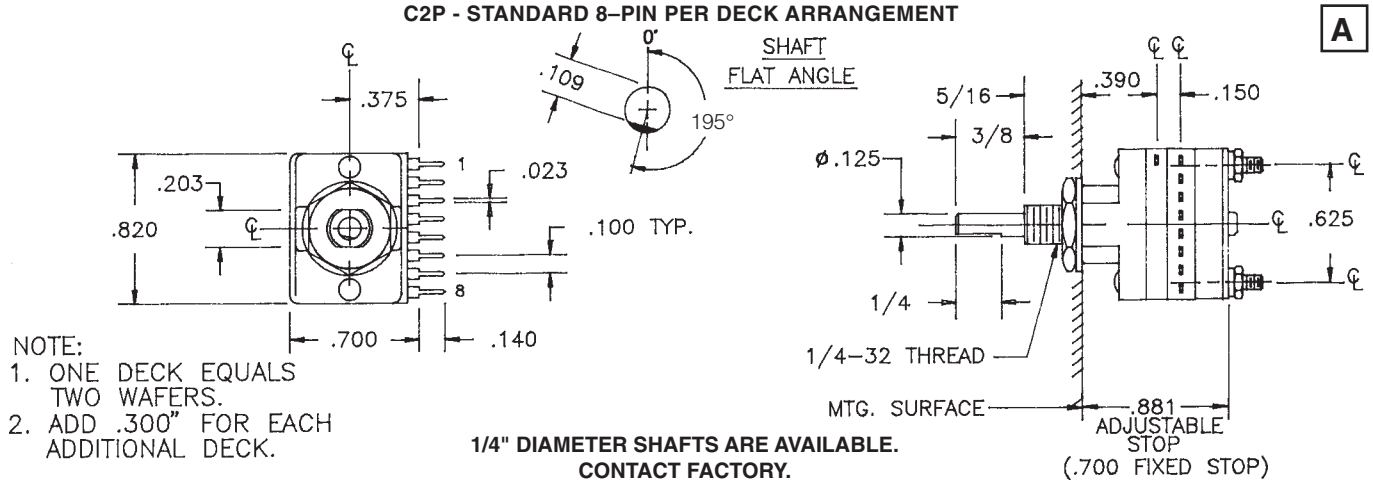
POLES	ACTIVE POSITIONS	POLES/ DECK	NO. OF DECKS	SHORTING	NON-SHORTING	FIG. *
01	02-12	1	1	C3P0112S - A	C3P0112N - A	CA
02	02-12	1	2	C3P0212S - A	C3P0212N - A	CA
02	02-06	2	1	C3P0206S - A	C3P0206N - A	CH
03	02-04	3	1	C3P0304S - A	C3P0304N - A	CK
03	02-12	1	3	C3P0312S - A	C3P0312N - A	CA
04	02-06	2	2	C3P0406S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

A



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

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C2/C3 - SERIES

How to Order Additional Options:

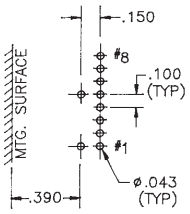
2 DIGIT SERIES	INSULATION TYPE	TOTAL POLES	ACTIVE POSITIONS	CONTACT TYPE	TERMINAL TYPE	INDEX ANGLE	STOP TYPE	SHAFT/ BUSHING	SHAFT FLAT
C2	P-POLYESTER	01 - MIN.	08 - MAX @ 30° 04 - MAX @ 60° 03 - MAX @ 90°	N - NON SHORTING S - SHORTING		30° 60° 90°	F - FIXED C - CONT. A - ADJ.	SEE CHART "A"	SEE CHART "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: [ ][ ] **P** [ ][ ] (SPECIFY) [ ][ ] (SPECIFY) [ ] (SPECIFY) —

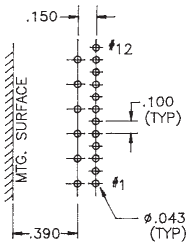
ADDITIONAL OPTIONS: [ ][ ] (SPECIFY) [ ] (SPECIFY) [ ][ ] (SPECIFY) [ ] (SPECIFY)

PRINTED CIRCUIT BOARD PATTERN

C2 8–PIN DECK

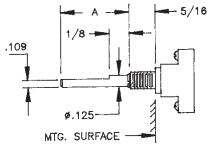


C3 12–PIN DECK



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



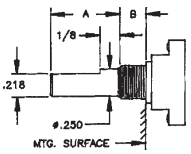
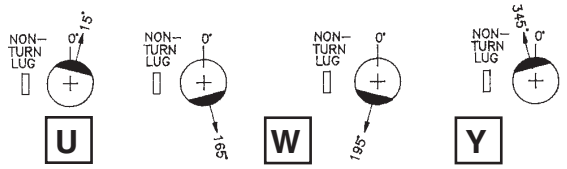


Chart A 1/8" shaft		
P/N OPT	Shaft Lgth	
01	1/4	
02	3/8	Std.
03	1/2	
04	9/16	
05	3/4	
06	7/8	
07	1	
Chart A 1/4" shaft		
P/N OPT	Shaft Lgth	
08	1/4	
09	3/8	
10	1/2	
11	9/16	
12	3/4	
13	7/8	
14	1	

CHART "B"

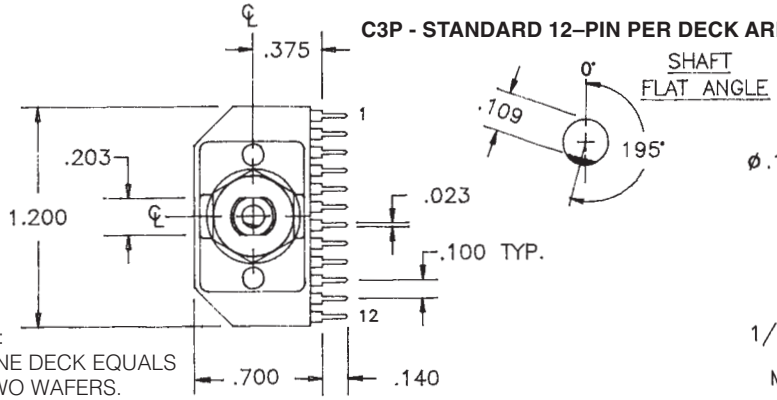
P/N OPT.	FLAT ANGLE	
U	15°	
W	165°	
Y	195°	- STD.
Z	345°	



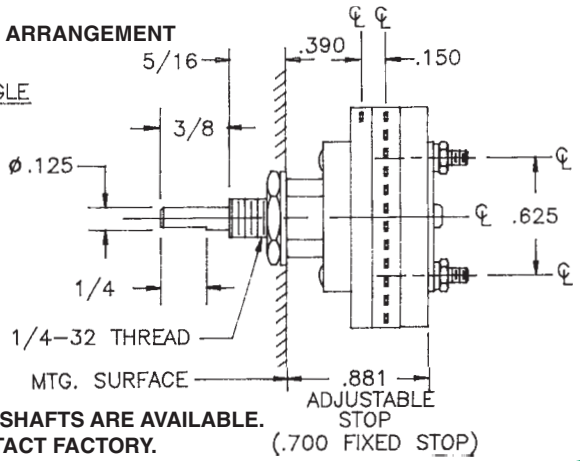
SHAFT AS VIEWED WITH NON-TURN LUG AT 9 O'CLOCK AND SHAFT IN EXTREME CCW POSITION AND STRUT BOLTS ORIENTED VERTICALLY.

C3 - DIMENSIONS - 12 PIN DESIGN

C3P - STANDARD 12–PIN PER DECK ARRANGEMENT



NOTE:
1. ONE DECK EQUALS TWO WAFERS.
2. ADD .300" FOR EACH ADDITIONAL DECK.
3. 12 FIXED POSITION USES ADJUSTABLE STOP DIMENSIONS.



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

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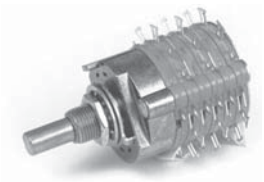
C4 - SERIES

SPECIFICATIONS AND ORDERING INFORMATION

1.5" DIAMETER 0.5 AMP @ 28 VDC

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.



C

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

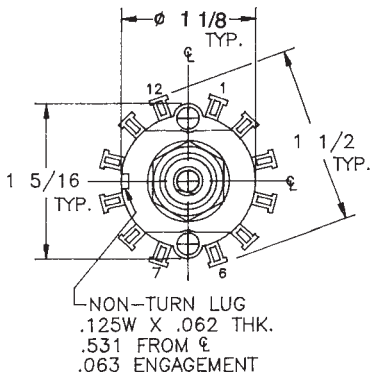
SOLDER LUG - ADJUSTABLE STOPS
SWITCHES - 30° INDEXING - STOPS SET @ 2 POS.

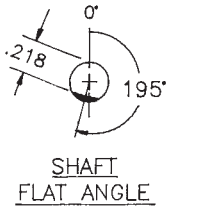
POLES	ACTIVE POSITIONS	POLES/ DECK	NO. OF DECKS	SHORTING	NON-SHORTING	FIG. *
01	02-12	1	1	C4D0112S - A	C4D0112N - A	CA
02	02-06	2	1	C4D0206S - A	C4D0206N - A	CH
02	02-12	1	2	C4D0212S - A	C4D0212N - A	CA
03	02-12	1	3	C4D0312S - A	C4D0312N - A	CA
03	02-04	3	1	C4D0304S - A	C4D0304N - A	CK
04	02-12	1	4	C4D0412S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

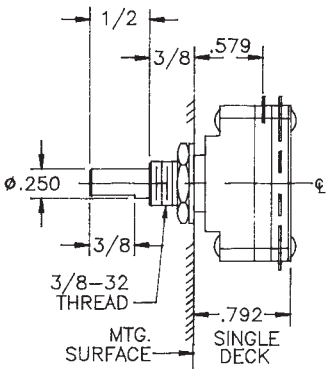
DIMENSIONS

C4D STANDARD CONSTRUCTION

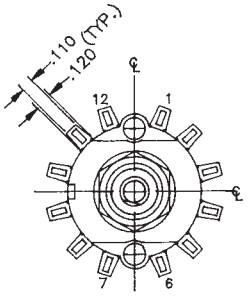




NOTE:
1. ONE DECK EQUALS TWO WAFERS.
2. ADD .284" FOR EACH ADDITIONAL DECK.



Q



.110 QUICK CONNECT TERMINAL OPTION (.016 MAT'L. THK.)

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C4 - SERIES

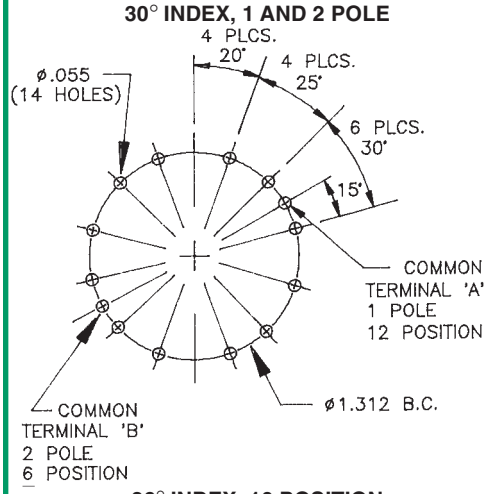
How to Order Additional Options:

2 DIGIT SERIES	INSULATION TYPE	TOTAL POLES	ACTIVE POSITIONS	CONTACT TYPE	TERMINAL TYPE	INDEX ANGLE	STOP TYPE	SHAFT/ BUSHING	SHAFT FLAT
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"

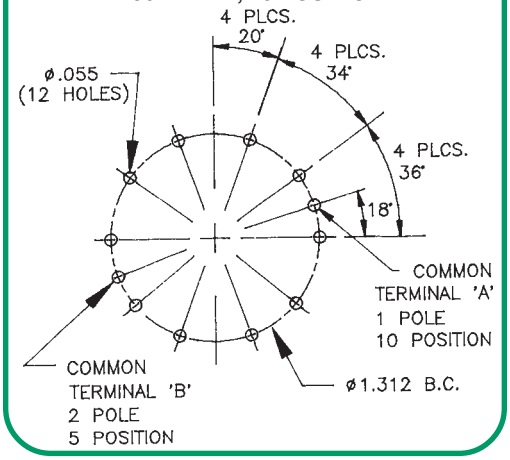
CUSTOMERS SPECIFIED ORDER NUMBER FOR STANDARD OPTIONS						ADDITIONAL OPTIONS			
C 4	D	(SPECIFY)	(SPECIFY)	(SPECIFY)	(SPECIFY)	(SPECIFY)	(SPECIFY)	(SPECIFY)	(SPECIFY)

PRINTED CIRCUIT BOARD HOLE PATTERNS

30° INDEX, 1 AND 2 POLE



36° INDEX, 10 POSITION



SHAFT, BUSHING, AND FLAT OPTIONS

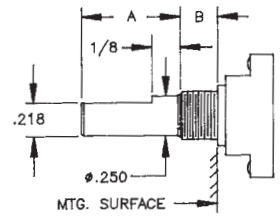
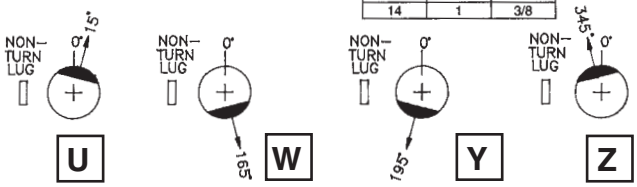


CHART "A"

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	- STD.
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"

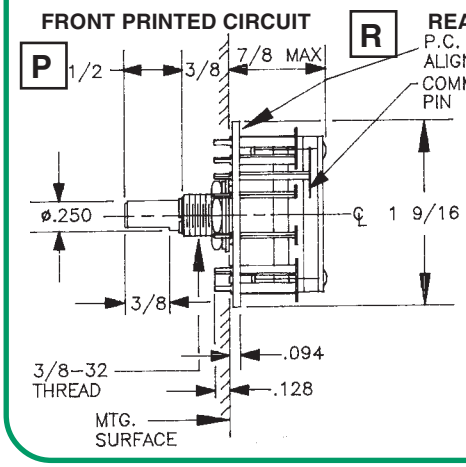
P/N OPT.	FLAT ANGLE	
U	15°	
W	165°	
Y	195°	- STD.
Z	345°	



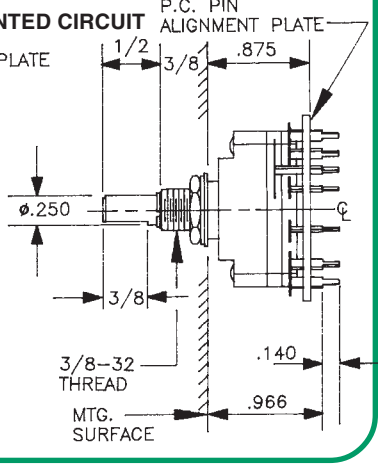
SHAFT AS VIEWED WITH NON-TURN LUG AT 9 O'CLOCK AND SHAFT IN EXTREME CCW POSITION AND STRUT BOLTS ORIENTED VERTICALLY.

PRINTED CIRCUIT BOARD TERMINAL OPTIONS

FRONT PRINTED CIRCUIT



REAR PRINTED CIRCUIT



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C5/C6 - SERIES

SPECIFICATIONS AND ORDERING INFORMATION

0.92" DIAMETER 1.0 AMP @ 28 VDC

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.

C

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
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

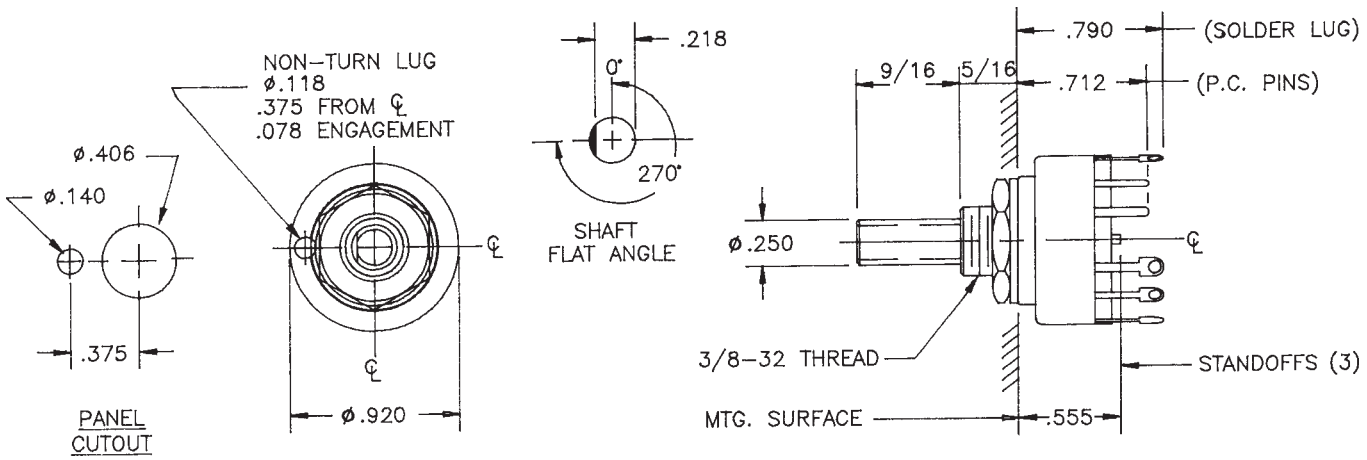
C5 - P.C. TERMINALS
SWITCHES - 30° INDEX - ADJUSTABLE STOPS - SET @ 2 POS. - SEALED

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 - 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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C5/C6 - SERIES

How to Order Additional Options:

2 DIGIT SERIES	INSULATION TYPE	TOTAL POLES	ACTIVE POSITIONS	CONTACT TYPE
C5	P - POLYESTER SEALED	01 02 03 04	12 - MAX 06 - MAX 04 - MAX 03 - MAX	N - NON - SHORTING
C6	P - POLYESTER UNSEALED	01 02 03 04	12 - MAX 06 - MAX 04 - MAX 03 - MAX	N - NON - SHORTING

TERMINAL TYPE	INDEX ANGLE	STOP TYPE	SHAFT/ BUSHING	SHAFT FLAT
L - SOLDER LUG R - REAR P.C.		F - FIXED A - ADJ. C - CONT.	SEE CHART "A"	SEE CHART "B"

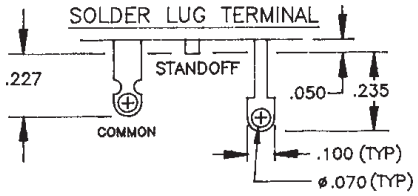
CUSTOMERS SPECIFIED ORDER NUMBER FOR STANDARD OPTIONS

[ ][ ] **P** [ ][ ] (SPECIFY) [ ][ ] (SPECIFY) **N** — [ ] (SPECIFY)

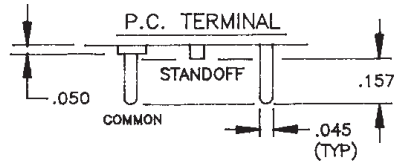
ADDITIONAL OPTIONS [ ] (SPECIFY) [ ][ ] (SPECIFY) [ ] (SPECIFY)

TERMINAL TYPES

L



R



SHAFT AND FLAT OPTIONS

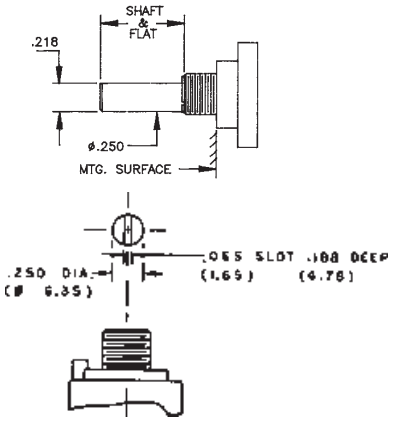


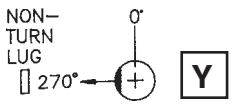
CHART "A"

P/N OPT.	SHAFT & FLAT LGTH.	
01	1/4	
02	5/16	
03	3/8	
04	7/16	
05	1/2	
06	9/16	- STD.
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	

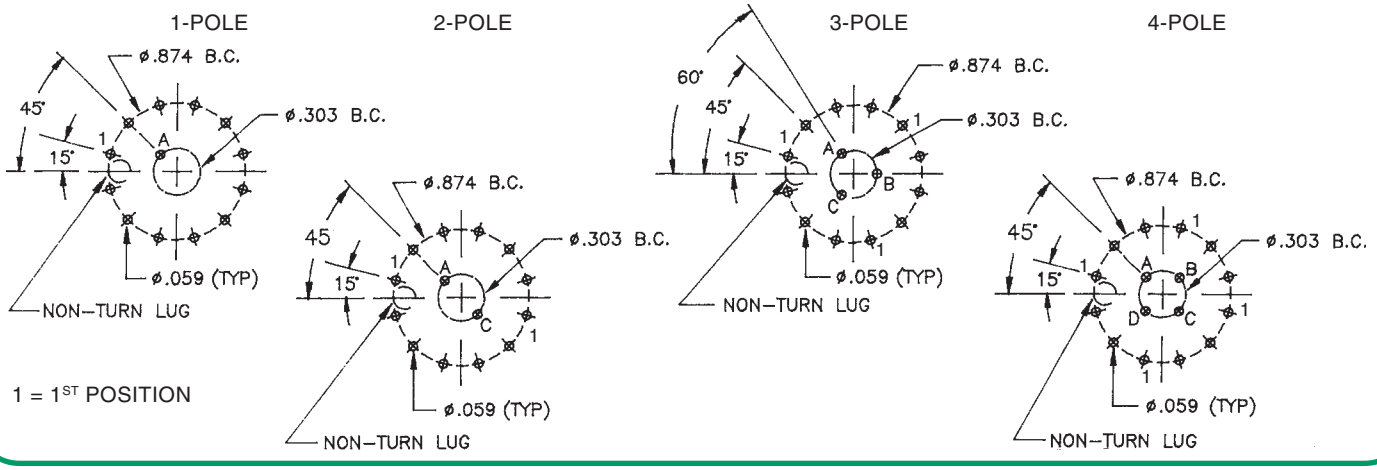
CHART "B"

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



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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.

C

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

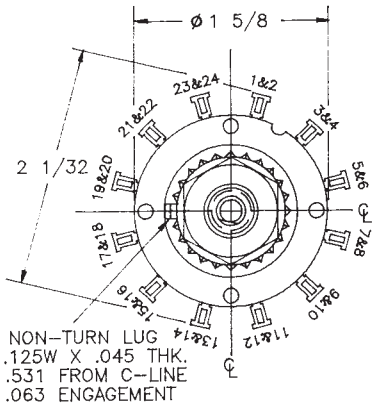
POLES	ACTIVE POSITIONS	POLES/ DECK	NO. OF DECKS	SHORTING	NON-SHORTING	FIG. *
01	24	1	1	C7D0124S - C	C7D0124N - C	CG
02	24	1	2	C7D0224S - C	C7D0224N - C	CG
03	24	1	3	C7D0324S - C	C7D0324N - C	CG
04	24	1	4	C7D0424S - C	C7D0424N - C	CG
30° INDEXING						
01	12	1	1	C7D0112S -30C	C7D0112N -30C	CA
02	12	1	2	C7D0212S -30C	C7D0212N -30C	CA
03	12	1	3	C7D0312S -30C	C7D0312N -30C	CA

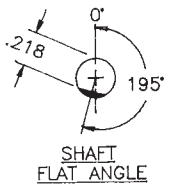
* FIGURES ARE SHOWN ON PAGE 55.

DIMENSIONS

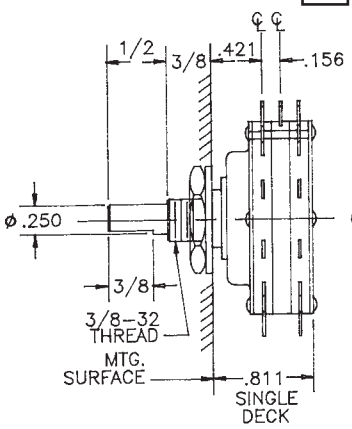
STANDARD CONSTRUCTION - 15° INDEX ANGLE (3 WAFER DECK)

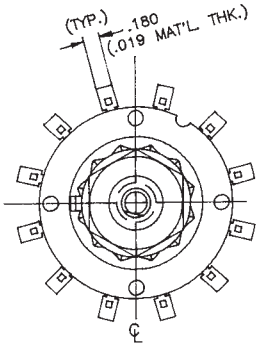
Q .187 QUICK CONNECT





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





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C7 - SERIES

How to Order Additional Options:

2 DIGIT SERIES	INSULATION TYPE	TOTAL POLES	ACTIVE POSITIONS	CONTACT TYPE
C7	D - DIALLYL	01 - MIN.	24 - MAX @ 15°	S - SHORTING N - NON SHORTING
C7	D - DIALLYL	01 - MIN.	12 - MAX @ 30° 06 - MAX @ 60° 04 - MAX @ 90°	S - SHORTING N - NON SHORTING

TERMINAL TYPE	INDEX ANGLE	STOP TYPE	SHAFT/ BUSHING	SHAFT FLAT
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"
L - SOLDER LUG Q - QUICK CONNECT	30° 60° 90°			

CUSTOMERS SPECIFIED ORDER NUMBER FOR STANDARD OPTIONS

C	7	D	(SPECIFY)	(SPECIFY)	(SPECIFY)	—	(SPECIFY)

ADDITIONAL OPTIONS

(SPECIFY)	(SPECIFY)	(SPECIFY)	(SPECIFY)

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

SHAFT AND FLAT OPTIONS

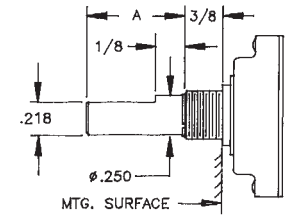


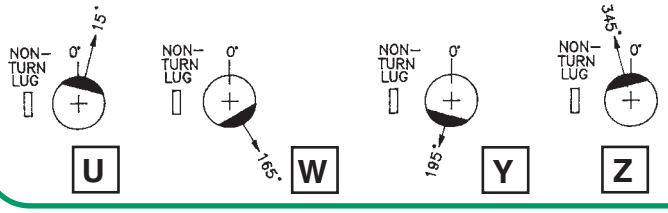
CHART "A"

P/N OPT.	SHAFT LGTH. "A"	
01	1/4	
02	1/2	- STD.
03	9/16	
04	3/4	
05	7/8	
06	1	

CHART "B"

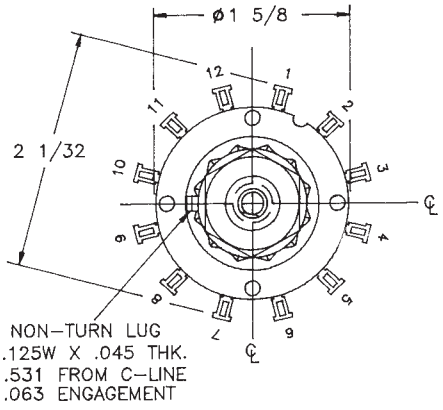
P/N OPT.	FLAT ANGLE	
U	15°	
W	165°	
Y	195°	- STD.
Z	345°	

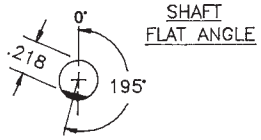
SHAFT AS VIEWED WITH NON-TURN LUG AT 9 O'CLOCK AND SHAFT IN EXTREME CCW POSITION .

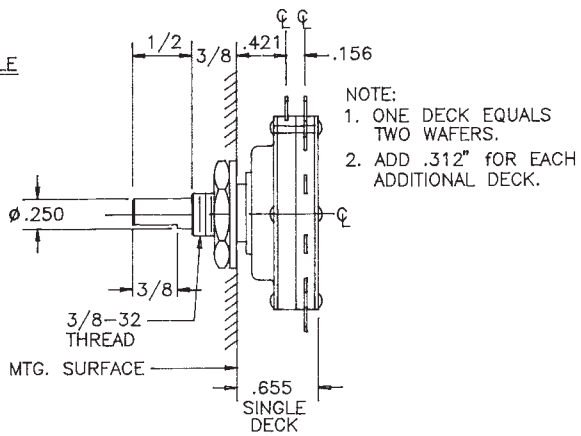


DIMENSIONS

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







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

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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

D

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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.

D

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

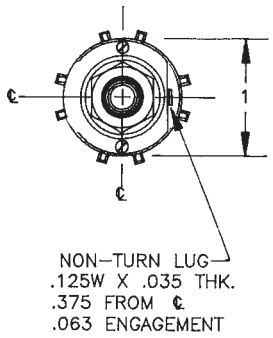
CERAMIC INSULATION
SWITCHES - SOLDER LUG TERMINALS - 30° INDEX

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

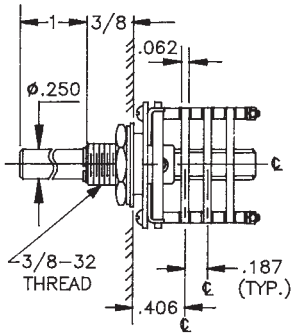
* FIGURES ARE SHOWN ON PAGES 55 AND 56.

DIMENSIONS

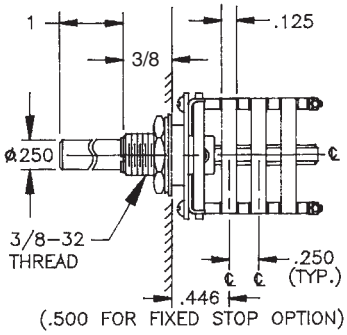
STANDARD CONSTRUCTION



D1G - STANDARD GLASS EPOXY CONSTRUCTION



D1C
CERAMIC INSULATION



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D1 - 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
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						ADDITIONAL OPTIONS			
D 1									
	(SPECIFY)	(SPECIFY)	(SPECIFY)	(SPECIFY)	(SPECIFY)	(SPECIFY)	(SPECIFY)	(SPECIFY)	(SPECIFY)

SHAFT, BUSHING, AND FLAT OPTIONS

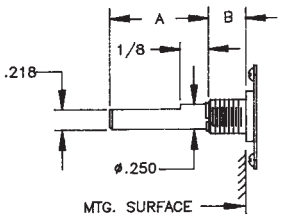


CHART "A"

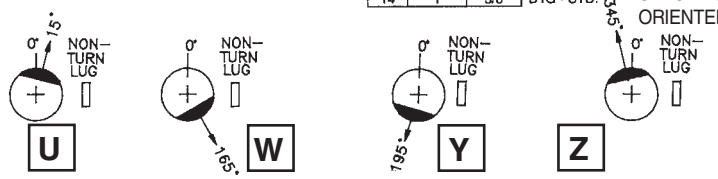
P/N OPT.	SHAFT LGTH. "A"	BUSH. LGTH. "B"
01	3/8	1/4
02	3/8	3/8
03	1/2	1/4
04	1/2	3/8
05	9/16	1/4
06	9/16	3/8
07	5/8	1/4
08	5/8	3/8
09	3/4	1/4
10	3/4	3/8
11	7/8	1/4
12	7/8	3/8
13	1	1/4
14	1	3/8

D1G - STD.

CHART "B"

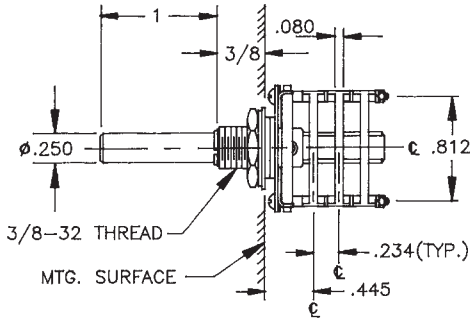
P/N OPT.	FLAT ANGLE
B	ROUND - STD.
U	15°
W	165°
Y	195°
Z	345°

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

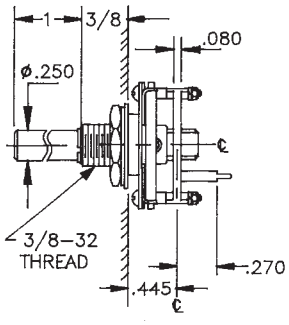


INSULATION AND PRINTED CIRCUIT BOARD TERMINAL OPTIONS

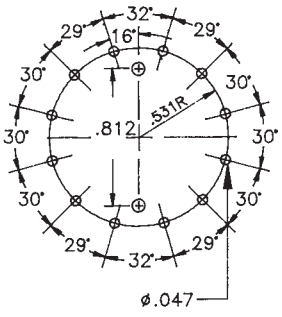
D1D
DIALLYL PHTHALATE INSULATION



R REAR PRINTED CIRCUIT TERMINALS



PC BOARD MOUNTING PATTERN



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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.

D

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

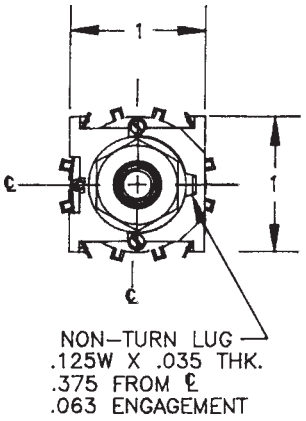
CERAMIC INSULATION - ADJUSTABLE STOPS
SWITCHES - SOLDER LUG TERMINALS - 30° INDEX - SET @ 2 POS. - 1/8 DIA. SHAFT

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

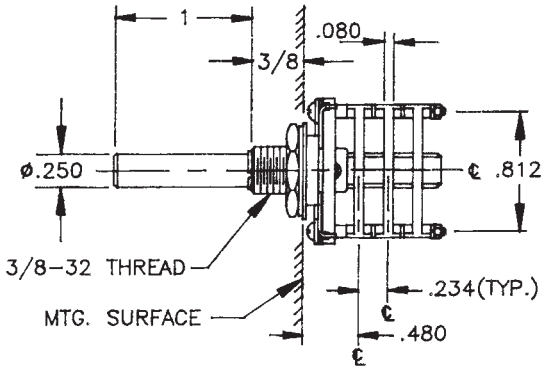
* FIGURES ARE SHOWN ON PAGES 55 AND 56.

DIMENSIONS

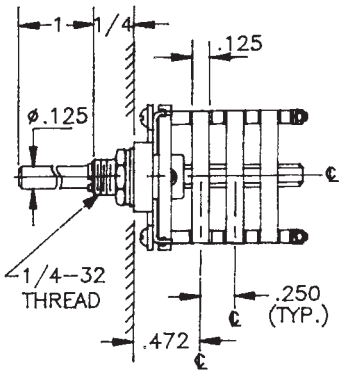
STANDARD CONSTRUCTION



D2D
DIALLYL PHTHALATE INSULATION



D2C
CERAMIC INSULATION



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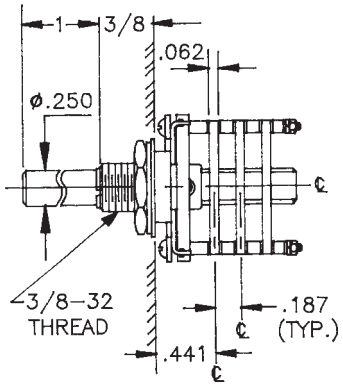
How to Order Additional Options:

2 DIGIT SERIES	INSULATION TYPE	TOTAL POLES	ACTIVE POSITIONS	CONTACT TYPE	TERMINAL TYPE	INDEX ANGLE	STOP TYPE	SHAFT/ BUSHING	SHAFT FLAT
D2	D - DIALLYL (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.		

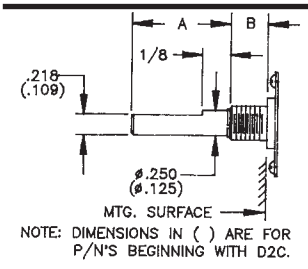
CUSTOMERS SPECIFIED ORDER NUMBER FOR STANDARD OPTIONS						ADDITIONAL OPTIONS			
D 2									
	(SPECIFY)	(SPECIFY)	(SPECIFY)	(SPECIFY)	(SPECIFY)	(SPECIFY)	(SPECIFY)	(SPECIFY)	(SPECIFY)

INSULATION OPTION

D2G
GLASS EPOXY INSULATION



SHAFT, BUSHING, AND FLAT OPTIONS



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

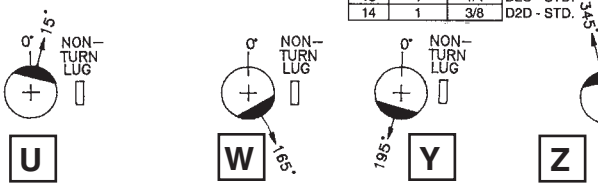
CHART "A"

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	D2C - STD.
14	1	3/8	D2D - STD.

CHART "B"

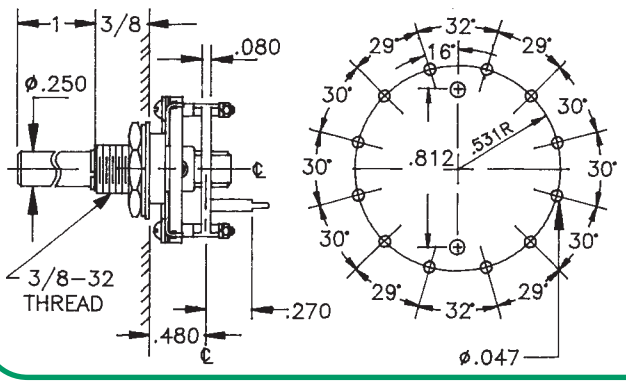
P/N OPT.	FLAT ANGLE	
B	ROUND	- STD.
U	15°	
W	165°	
Y	195°	
Z	345°	

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

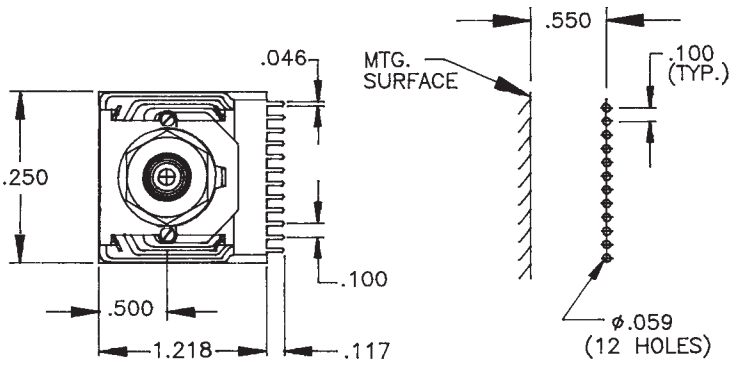


PRINTED CIRCUIT BOARD TERMINAL OPTIONS

R REAR P.C. DIALLYL ONLY



V VERTICALP.C.



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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.

D

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

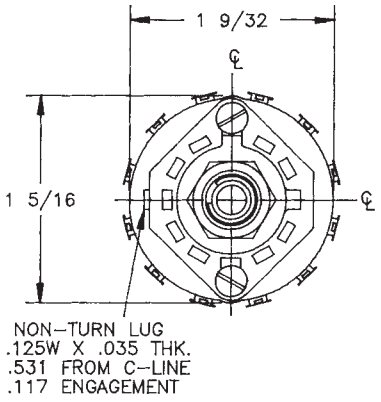
CERAMIC INSULATION - SILVER ALLOY - 2.6 AMPS @ 28 VDC
SWITCHES - SOLDER LUG TERMINALS - 30° INDEX - ADJUSTABLE STOPS SET @ 2 POS.

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

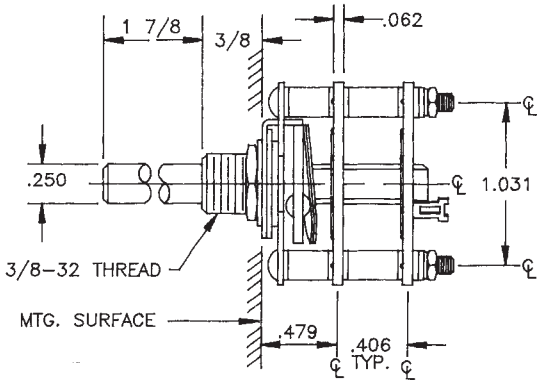
* FIGURES ARE SHOWN ON PAGES 55 AND 56.

DIMENSIONS

STANDARD CONSTRUCTION



D3G - GLASS EPOXY CONSTRUCTION



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D3 - 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
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

D	3						—		ADDITIONAL OPTIONS			
		(SPECIFY)	(SPECIFY)	(SPECIFY)		(SPECIFY)		(SPECIFY)	(SPECIFY)	(SPECIFY)	(SPECIFY)	

SHAFT, BUSHING, AND FLAT OPTIONS

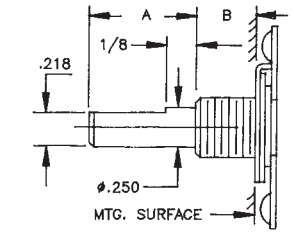


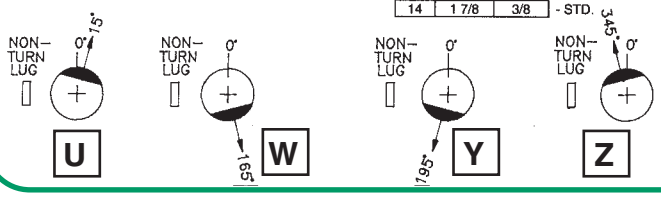
CHART "A"

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	- STD.

CHART "B"

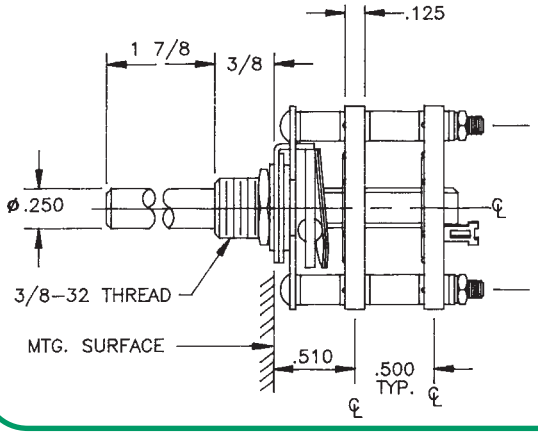
P/N OPT.	FLAT ANGLE	
B	ROUND	- STD.
U	15°	
W	165°	
Y	195°	
Z	345°	

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



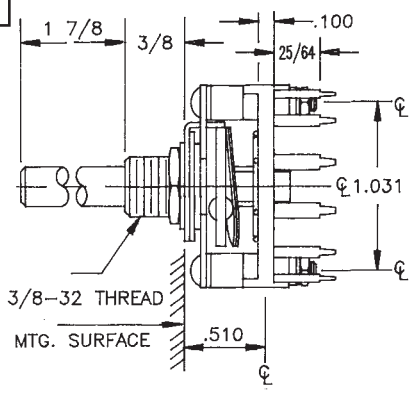
INSULATION AND PRINTED CIRCUIT BOARD TERMINAL OPTIONS

D3C - CERAMIC CONSTRUCTION

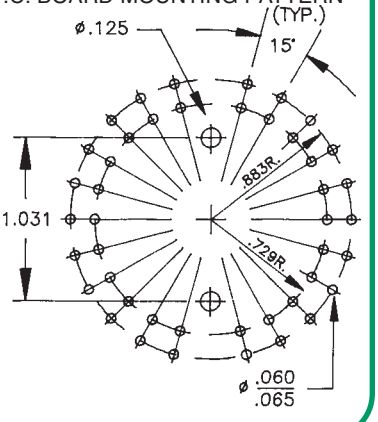


D3D -DIALLYL PHTHALATE CONSTRUCTION

R



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.

D

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

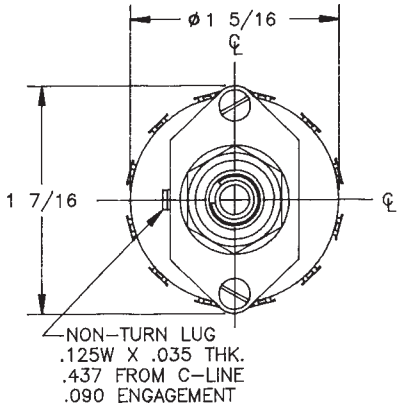
SWITCHES - SOLDER LUG TERMINALS - 30° INDEX - ADJUSTABLE STOPS

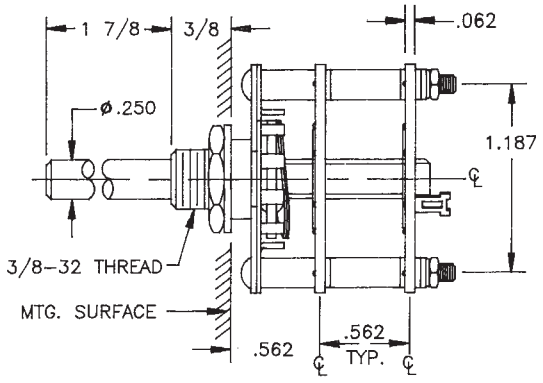
POLES	ACTIVE POSITIONS	POLES/ SECTION	NO. OF SECTIONS	SHORTING	NON-SHORTING	FIG. *
01	02-12	1	1	D4C0112S	D4C0112N	DD
02	02-12	1	2	D4C0212S	D4C0212N	DD
02	02-06	2	1	D4C0206S	D4C0206N	DL
03	02-12	1	3	D4C0312S	D4C0312N	DD
03	02-05	3	1	D4C0305S	D4C0305N	DO
04	02-12	1	4	D4C0412S	D4C0412N	DD
04	02-06	2	2	D4C0406S	D4C0406N	DL
05	02-12	1	5	D4C0512S	D4C0512N	DD
06	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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D4 - SERIES

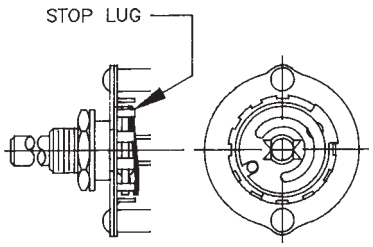
How to Order Additional Options:

2 DIGIT SERIES	INSULATION TYPE	TOTAL POLES	ACTIVE POSITIONS	CONTACT TYPE	TERMINAL TYPE	INDEX ANGLE	STOP TYPE	SHAFT/ BUSHING	SHAFT FLAT
D4	G - GLASS C - CERAMIC 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

D	4						—		ADDITIONAL OPTIONS			
		(SPECIFY)	(SPECIFY)	(SPECIFY)		(SPECIFY)		(SPECIFY)	(SPECIFY)	(SPECIFY)	(SPECIFY)	

ADJUSTABLE STOP MECHANISM



REMOVE STOP LUGS TO ACHIEVE MORE POSITIONS.

SHAFT, BUSHING, AND FLAT OPTIONS

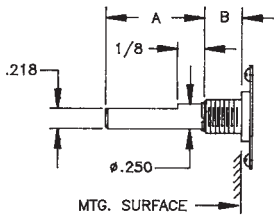


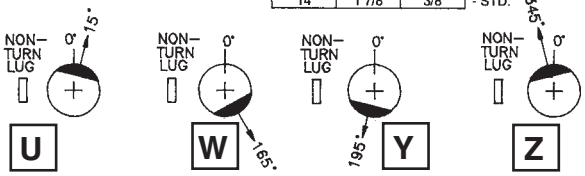
CHART "A"

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	- STD.

CHART "B"

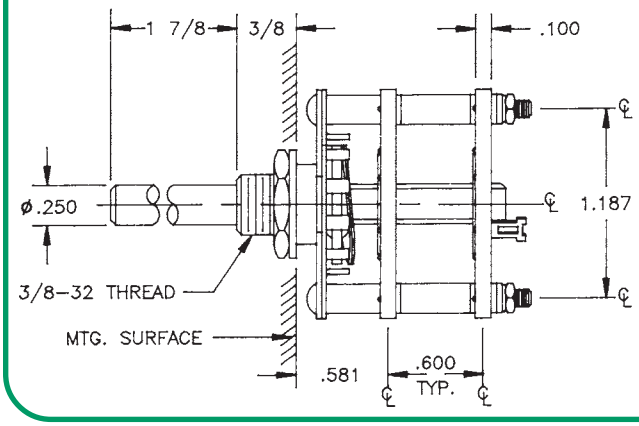
P/N OPT.	FLAT ANGLE	
B	ROUND	- STD.
U	15°	
W	165°	
Y	195°	
Z	345°	

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

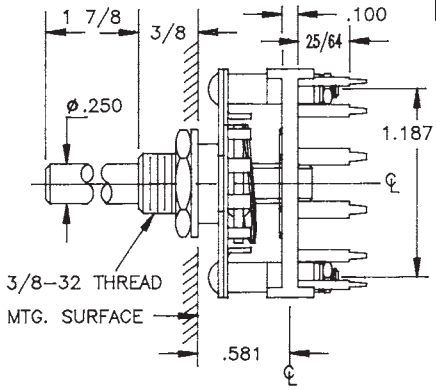


INSULATION AND PRINTED CIRCUIT BOARD TERMINAL OPTIONS

D4C - CERAMIC CONSTRUCTION

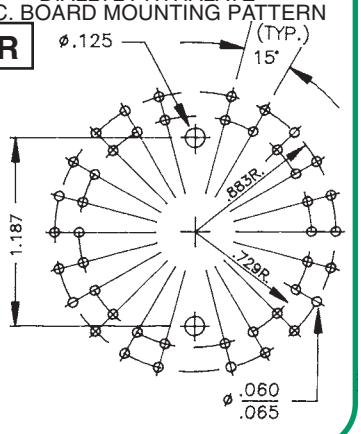


D4D -DIALLYL PHTHALATE CONSTRUCTION



DIALLYL PHTHALATE P.C. BOARD MOUNTING PATTERN

R



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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.

D

STANDARD PART NUMBER

SOLDER LUG TERMINALS
SWITCHES - 30° INDEXING - FIXED STOPS

POLES	ACTIVE 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

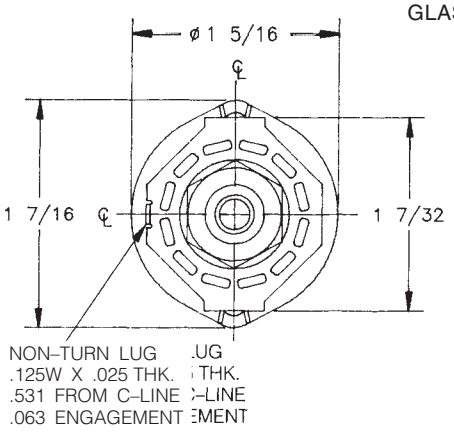
POLES	ACTIVE POSITIONS	POLES/ SECTION	NO. OF SECTIONS	SHORTING	NON-SHORTING	FIG. *
01	06	1	1	D5G0106S - R	D5G0106N - R	DB
01	08	1	1	D5G0108S - R	D5G0108N - R	DB
01	10	1	1	D5G0110S - R	D5G0110N - R	DB
01	11	1	1	D5G0111S - R	D5G0111N - R	DB
02	04	2	1	D5G0204S - R	D5G0204N - R	DG
02	05	2	1	D5G0205S - R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

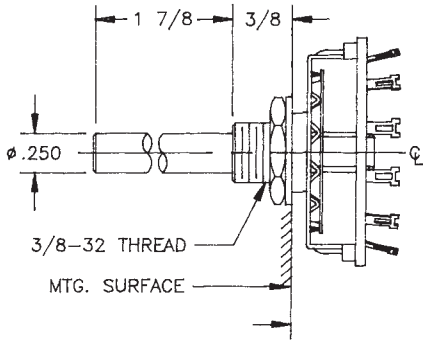
* FIGURES ARE SHOWN ON PAGES 55 AND 56.

DIMENSIONS

STANDARD CONSTRUCTION

D5G
GLASS EPOXY CONSTRUCTION





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D5 - 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
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

D	5	G						ADDITIONAL OPTIONS		
			(SPECIFY)	(SPECIFY)	(SPECIFY)	—	(SPECIFY)	(SPECIFY)	(SPECIFY)	(SPECIFY)

SHAFT, BUSHING, AND FLAT OPTIONS

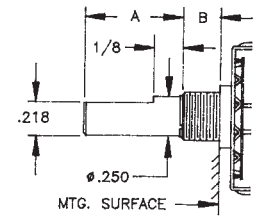


CHART "A"

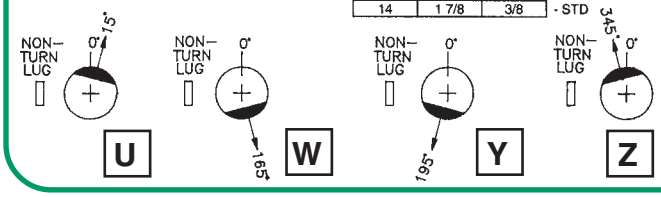
P/N OPT.	SHAFT LGTH. "A"	BUSH. LGTH. "B"
01	3/8	1/4
02	3/8	3/8
03	1/2	1/4
04	1/2	3/8
05	9/16	1/4
06	9/16	3/8
07	3/4	1/4
08	3/4	3/8
09	1	1/4
10	1	3/8
11	1 1/2	1/4
12	1 1/2	3/8
13	1 7/8	1/4
14	1 7/8	3/8

- STD

CHART "B"

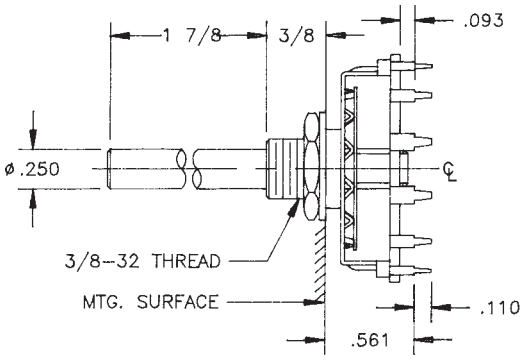
P/N OPT.	FLAT ANGLE
B	ROUND - STD
U	15°
W	165°
Y	195°
Z	345°

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

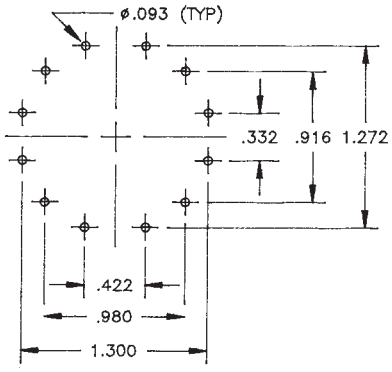


PRINTED CIRCUIT BOARD OPTIONS

R



P.C. BOARD MOUNTING PATTERN



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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.

D

STANDARD PART NUMBER

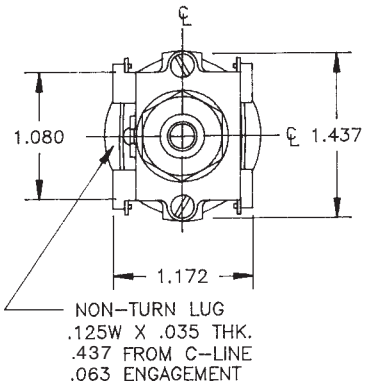
DIALLYL PHTHALATE INSULATION
SWITCHES - 30° INDEX - ADJUSTABLE STOPS - SOLDER LUG TERMINALS

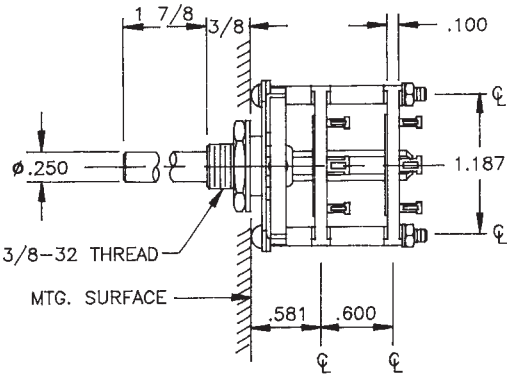
POLES	ACTIVE POSITIONS	POLES/ SECTION	NO. OF SECTIONS	SHORTING	NON-SHORTING	FIG. *
01	02-12	1	1	D6D0112S	D6D0112N	DD
02	02-12	1	2	D6D0212S	D6D0212N	DD
02	02-06	2	1	D6D0206S	D6D0206N	DL
03	02-12	1	3	D6D0312S	D6D0312N	DD
03	02-05	3	1	D6D0305S	D6D0305N	DO
04	02-12	1	4	D6D0412S	D6D0412N	DD
04	02-06	2	2	D6D0406S	D6D0406N	DL
05	02-12	1	5	D6D0512S	D6D0512N	DD
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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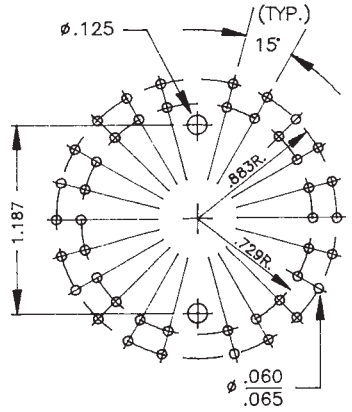
How to Order Additional Options:

2 DIGIT SERIES	INSULATION TYPE	TOTAL POLES	ACTIVE POSITIONS	CONTACT TYPE	TERMINAL TYPE	INDEX ANGLE	STOP TYPE	SHAFT/ BUSHING	SHAFT FLAT
D6	D - DIALLYL (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: D 6 [ ] [ ] (SPECIFY) [ ] (SPECIFY) [ ] (SPECIFY) — [ ] (SPECIFY)

ADDITIONAL OPTIONS: [ ] (SPECIFY) [ ] (SPECIFY) [ ] (SPECIFY) [ ] (SPECIFY)

PRINTED BOARD MOUNTING PATTERN



SHAFT, BUSHING, AND FLAT OPTIONS

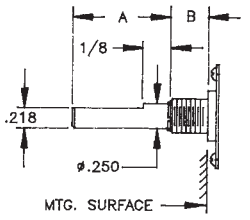
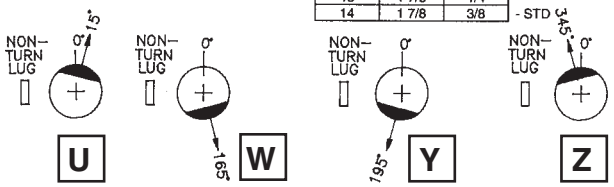


CHART "A"

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"

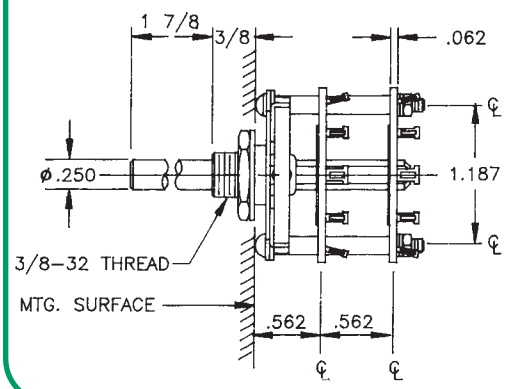
P/N OPT.	FLAT ANGLE
B	ROUND - STD
U	15°
W	165°
Y	195°
Z	345°



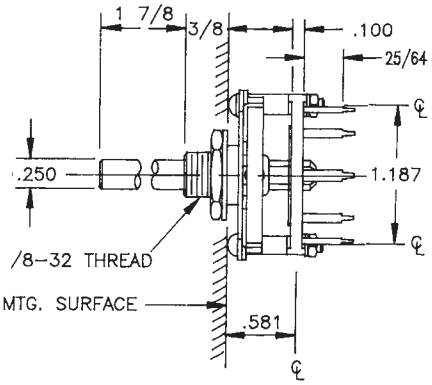
SHAFT AS VIEWED WITH NON-TURN LUG AT 9 O'CLOCK AND SHAFT IN EXTREME CCW POSITION AND STRUT BOLTS ORIENTED VERTICALLY.

INSULATION OPTIONS

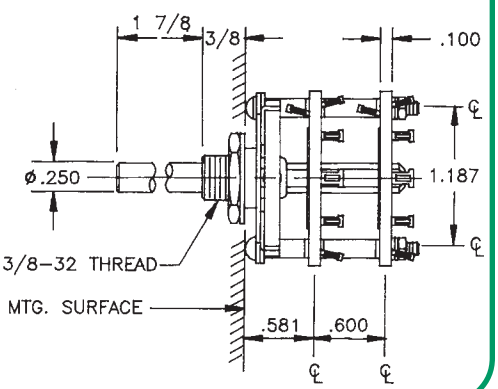
D6G - GLASS EPOXY INSULATION



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.

D

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

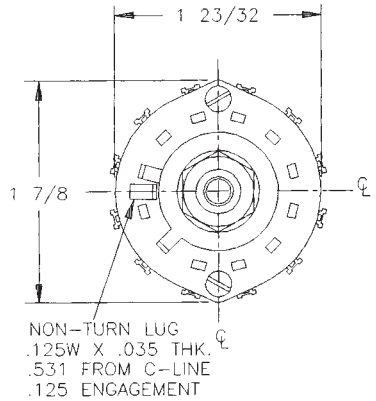
CERAMIC INSULATION SWITCHES - 30° INDEXING
ADJUSTABLE STOPS - SOLDER LUG TERMINALS - STOPS SET @ 2 POS.

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

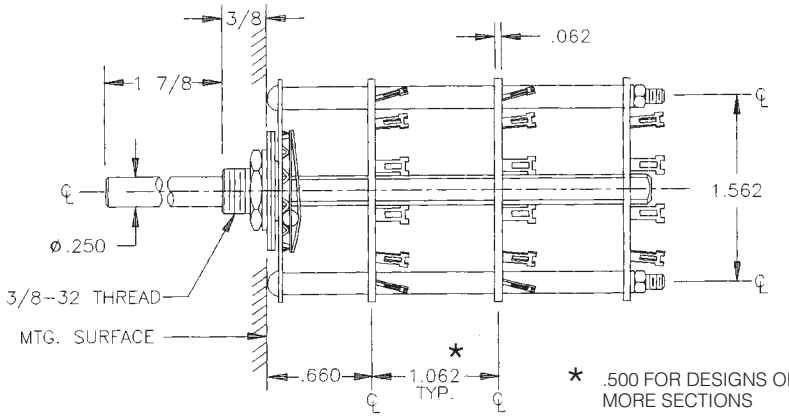
* FIGURES ARE SHOWN ON PAGES 55 AND 56.

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

D 7 — (SPECIFY) (SPECIFY) (SPECIFY) (SPECIFY)

ADDITIONAL OPTIONS

(SPECIFY) (SPECIFY) (SPECIFY) (SPECIFY)

SHAFT, BUSHING, AND FLAT OPTIONS

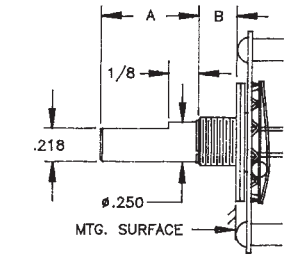


CHART "A"

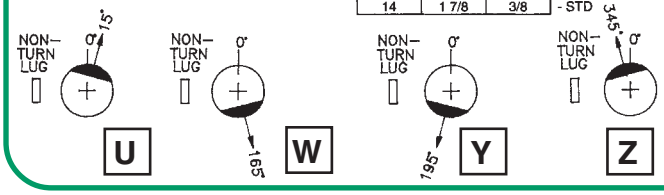
P/N OPT.	SHAFT LGTH. "A"	BUSH. LGTH. "B"
01	3/8	1/4
02	3/8	3/8
03	1/2	1/4
04	1/2	3/8
05	9/16	1/4
06	9/16	3/8
07	3/4	1/4
08	3/4	3/8
09	1	1/4
10	1	3/8
11	1 1/2	1/4
12	1 1/2	3/8
13	1 7/8	1/4
14	1 7/8	3/8

- STD

CHART "B"

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

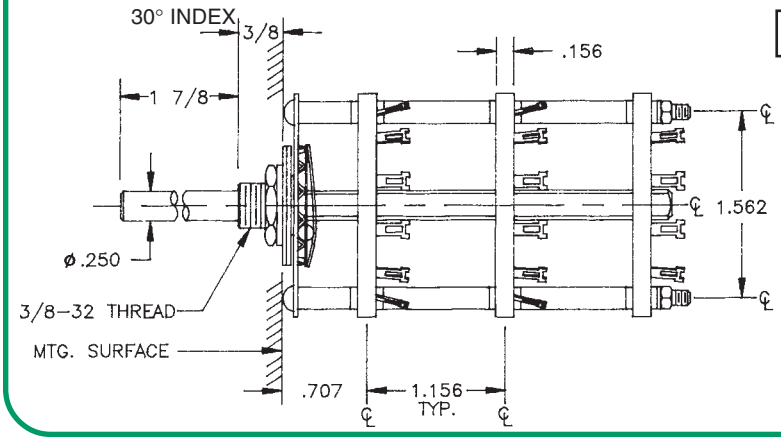
SHAFT AS VIEWED WITH NON-TURN LUG AT 9 O'CLOCK AND SHAFT IN EXTREME CCW POSITION AND STRUT BOLTS ORIENTED VERTICALLY.



INSULATION AND INDEX OPTIONS

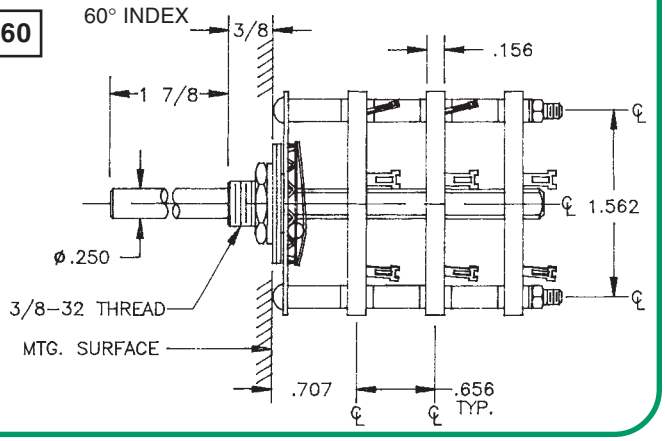
D7C - CERAMIC CONSTRUCTION

30° INDEX



D7C - CERAMIC INSULATION

60 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.

D

STANDARD PART NUMBER

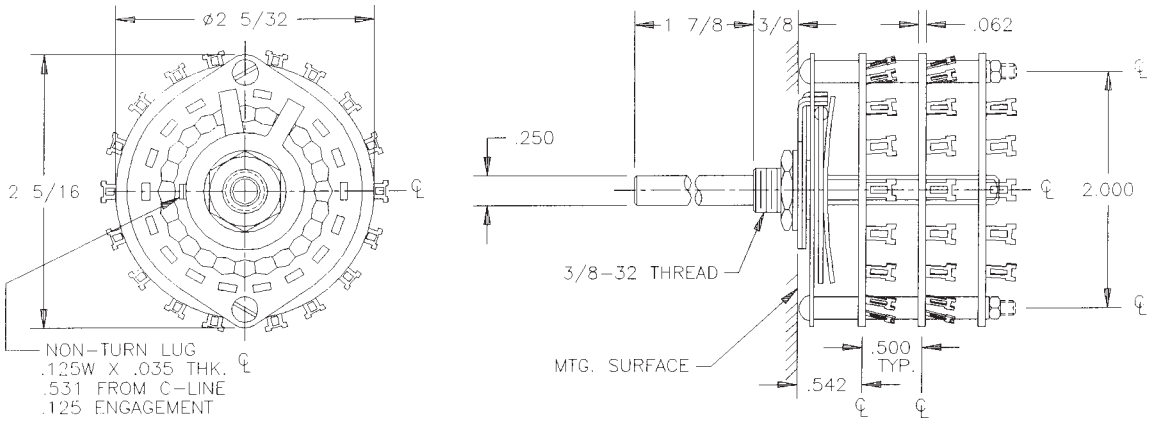
GLASS EPOXY INSULATION SWITCHES - 20° INDEXING
ADJUSTABLE STOPS SET @ 2 POS. - SOLDER LUG TERMINALS

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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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

D	8	G						
			(SPECIFY)		(SPECIFY)		(SPECIFY)	

ADDITIONAL OPTIONS

(SPECIFY)		(SPECIFY)		(SPECIFY)

SHAFT, BUSHING, AND FLAT OPTIONS

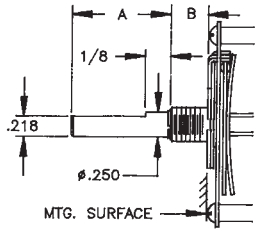


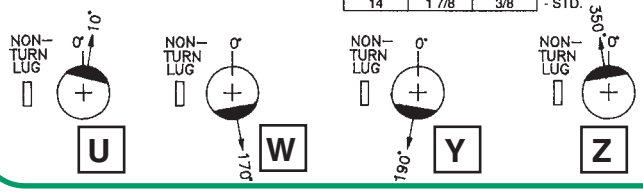
CHART "A"

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	- STD.

CHART "B"

P/N OPT.	FLAT ANGLE	
B	ROUND	- STD.
U	10°	
W	170°	
Y	190°	
Z	350°	

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



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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.

D

STANDARD PART NUMBER

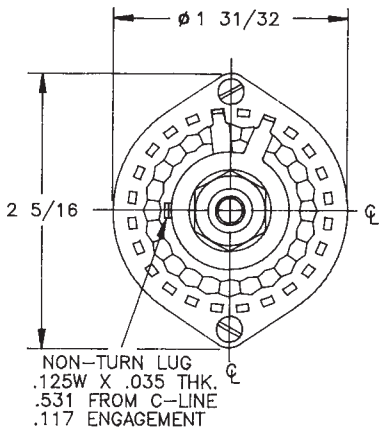
GLASS EPOXY INSULATION SWITCHES - 15° INDEXING
ADJUSTABLE STOPS - SOLDER LUG TERMINALS - STOPS SET @ 2 POS.

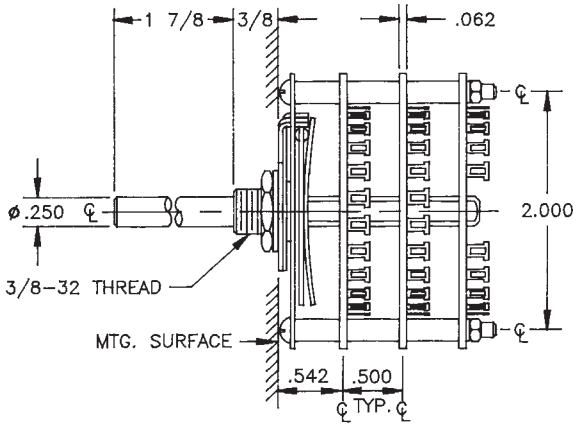
POLES	ACTIVE POSITIONS	POLES/ SECTION	NO. OF SECTIONS	SHORTING	NON-SHORTING	FIG. *
01	02-23	1	1	D9G0123S	D9G0123N	DU
02	02-23	1	2	D9G0223S	D9G0223N	DU
03	02-23	1	3	D9G0323S	D9G0323N	DU
04	02-23	1	4	D9G0423S	D9G0423N	DU
05	02-23	1	5	D9G0523S	D9G0523N	DU
06	02-23	1	6	D9G0623S	D9G0623N	DU
07	02-23	1	7	D9G0723S	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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D9 - 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
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

D 9 G [ ][ ] (SPECIFY) [ ][ ] (SPECIFY) [ ] (SPECIFY) — [ ] (SPECIFY)

ADDITIONAL OPTIONS [ ] (SPECIFY) [ ][ ] (SPECIFY) [ ] (SPECIFY)

SHAFT, BUSHING, AND FLAT OPTIONS

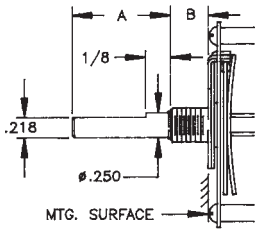


CHART "A"

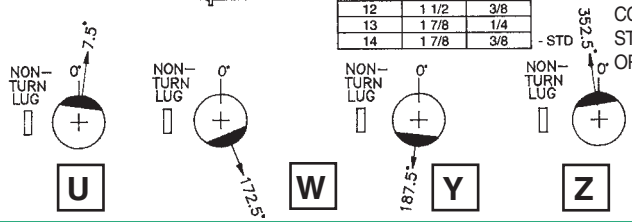
P/N OPT.	SHAFT LGTH. "A"	BUSH. LGTH. "B"
01	3/8	1/4
02	3/8	3/8
03	1/2	1/4
04	1/2	3/8
05	9/16	1/4
06	9/16	3/8
07	3/4	1/4
08	3/4	3/8
09	1	1/4
10	1	3/8
11	1 1/2	1/4
12	1 1/2	3/8
13	1 7/8	1/4
14	1 7/8	3/8

- STD

CHART "B"

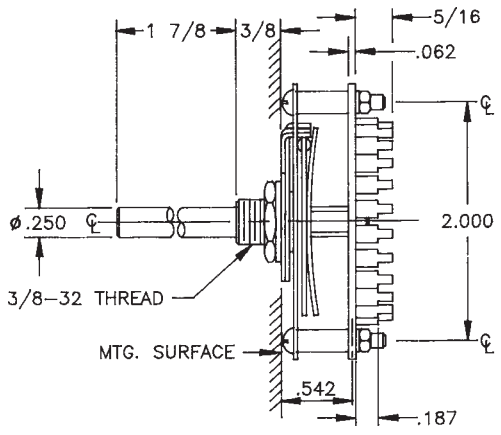
P/N OPT.	FLAT ANGLE	
B	ROUND	- STD
U	7.5°	
W	172.5°	
Y	187.5°	
Z	352.5°	

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

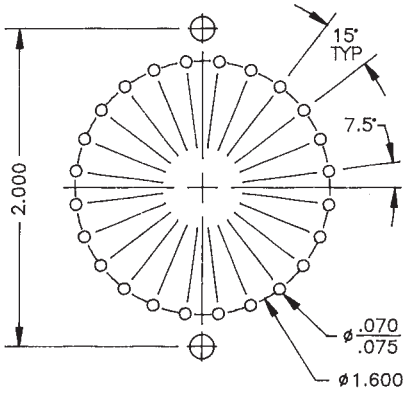


PRINTED CIRCUIT BOARD OPTIONS

R



P.C. BOARD MOUNTING PATTERN



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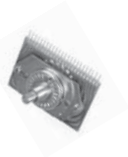
SELECTOR GUIDE

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.

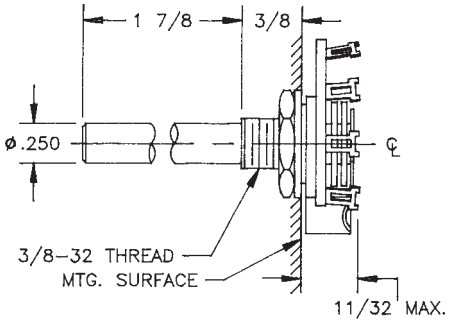
STANDARD PART NUMBER

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

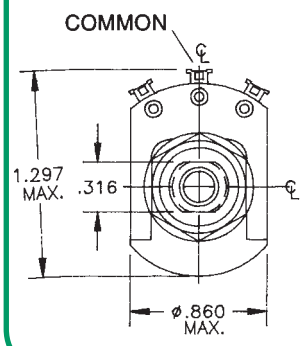
STANDARD CONSTRUCTION
E1G - GLASS EPOXY CONSTRUCTION



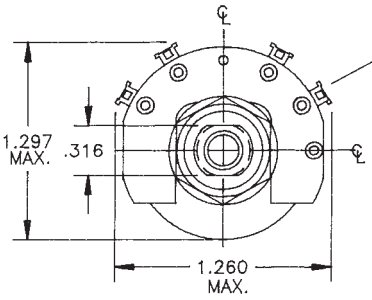
E

DIMENSIONS

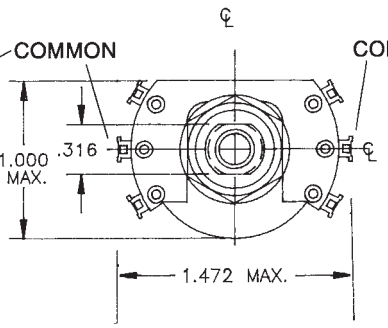
DETAIL A



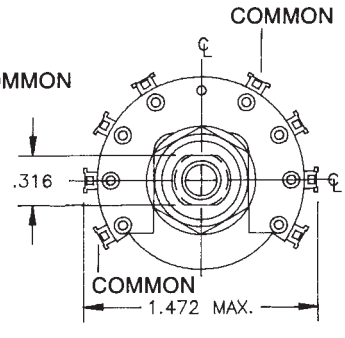
DETAIL B



DETAIL C



DETAIL D



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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

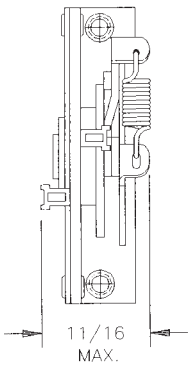
LEVER
SWITCHES - 30° INDEXING - FIXED STOPS - SOLDER LUG TERMINALS

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

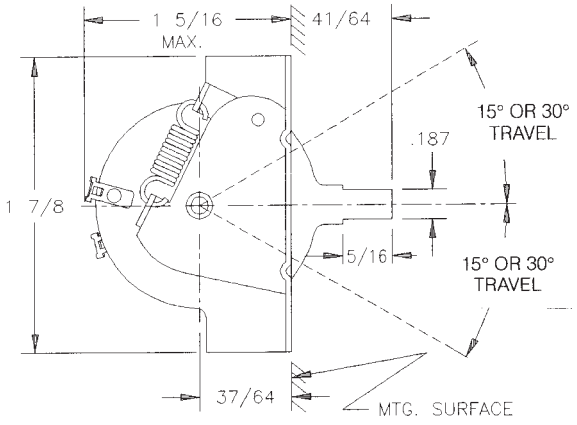
E

DIMENSIONS

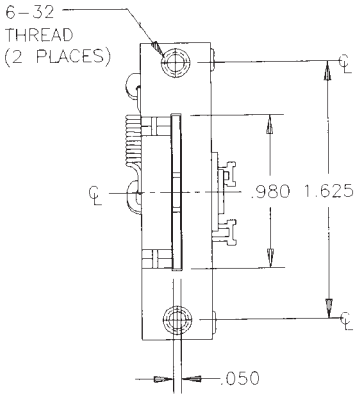
STANDARD CONSTRUCTION



DETAIL E



DETAIL F



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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

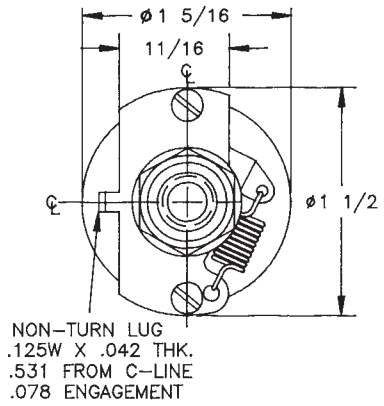
SPRING RETURN
SWITCHES - 30° INDEXING - FIXED STOPS - SOLDER LUG TERMINALS

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.

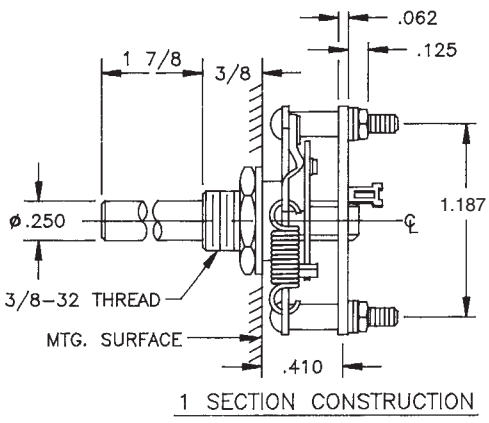
E

DIMENSIONS

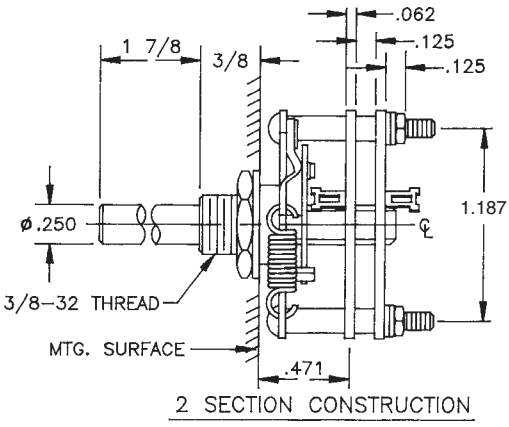
STANDARD CONSTRUCTION



E3G - GLASS EPOXY CONSTRUCTION



1 SECTION CONSTRUCTION



2 SECTION CONSTRUCTION

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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

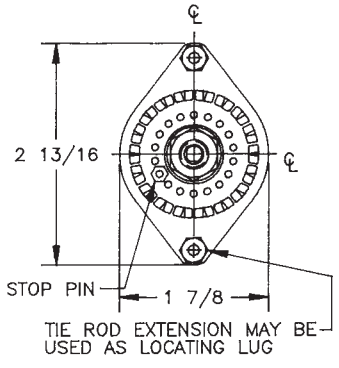
SWITCHES ADJUSTABLE STOPS - SOLDER LUG TERMINALS - STOPS SET @ 2 POS.

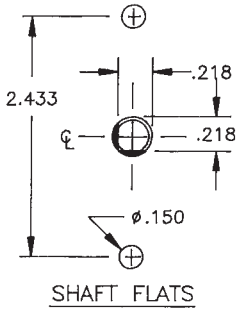
POLES	ACTIVE POSITIONS	POLES/ SECTION	NO. OF SECTIONS	SHORTING	NON-SHORTING	FIG. *
01	02-17	1	1	E4C0117S	E4C0117N	EA
02	02-17	1	2	E4C0217S	E4C0217N	EA
02	02-08	2	1	E4C0208S	E4C0208N	EB
03	02-17	1	3	E4C0317S	E4C0317N	EA
03	02-05	3	1	E4C0305S	E4C0305N	EC
04	02-17	1	4	E4C0417S	E4C0417N	EA
04	02-08	2	2	E4C0408S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

* FIGURES ARE SHOWN ON PAGE 57.

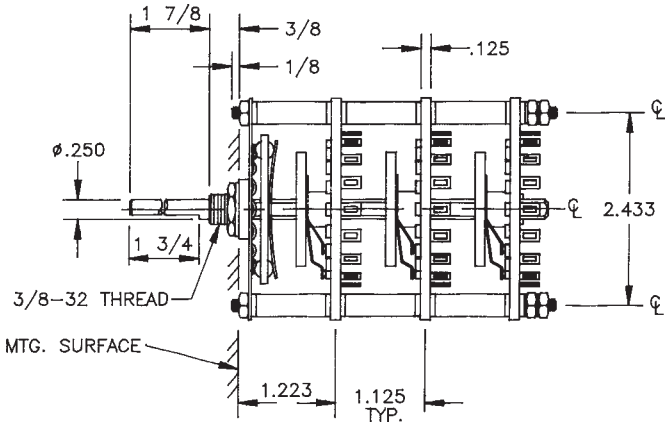
DIMENSIONS

STANDARD CONSTRUCTION





E4C - CERAMIC CONSTRUCTION



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E4 - SERIES

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

E	4	C						ADDITIONAL OPTIONS		
			(SPECIFY)		(SPECIFY)		(SPECIFY)		(SPECIFY)	(SPECIFY)	(SPECIFY)

SHAFT, BUSHING, AND FLAT OPTIONS

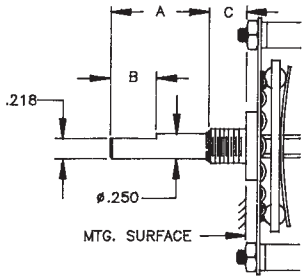


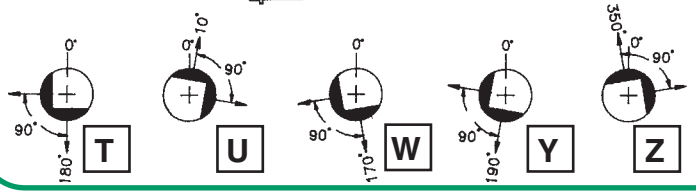
CHART "A"

P/N OPT.	SHAFT LGTH. "A"	FLAT LGTH. "B"	BUSH. LGTH. "C"	
01	3/8	1/4	1/4	
02	3/8	1/4	3/8	
03	1/2	11/32	1/4	
04	1/2	11/32	3/8	
05	3/4	15/32	1/4	
06	3/4	15/32	3/8	
07	1	19/32	1/4	
08	1	19/32	3/8	
09	1 1/2	5/8	1/4	
10	1 1/2	5/8	3/8	
11	1 7/8	5/8	1/4	
12	1 7/8	5/8	3/8	- STD.

CHART "B"

P/N OPT.	FLAT ANGLE	
B	ROUND	
U	10°	
W	170°	
T	180°	- STD.
Y	190°	
Z	350°	

SHAFT AS VIEWED IN EXTREME CCW POSITION AND STRUT BOLTS ORIENTED VERTICALLY.



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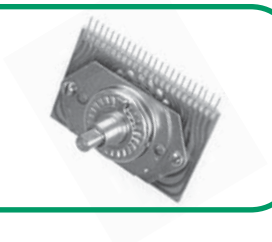
E5 - SERIES

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

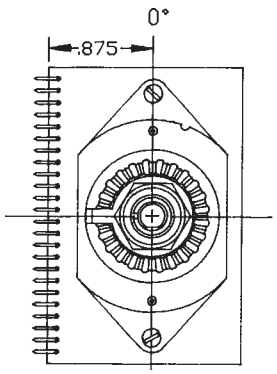
VERTICAL PRINTED CIRCUIT BOARD
15° INDEXING - SOLDER LUG TERMINALS - CONTINUOUS ROTATION

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

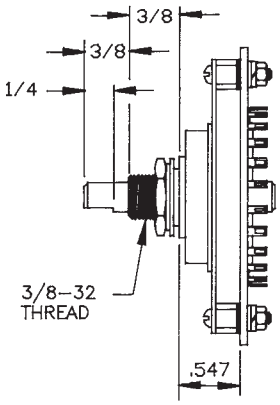
* FIGURES ARE SHOWN ON PAGE 57.

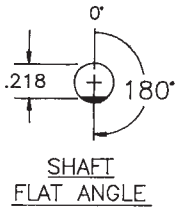
DIMENSIONS

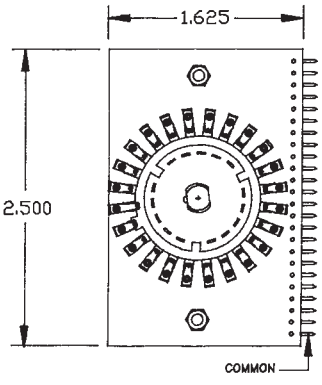
STANDARD CONSTRUCTION



E5 - GLASS EPOXY CONSTRUCTION







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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
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"

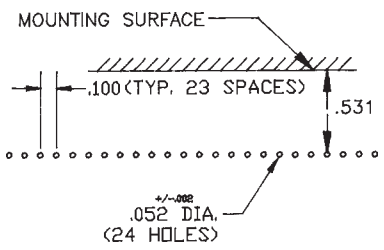
CUSTOMERS SPECIFIED ORDER NUMBER FOR STANDARD OPTIONS

E	5	G					—
			(SPECIFY)	(SPECIFY)	(SPECIFY)		

ADDITIONAL OPTIONS

(SPECIFY)	(SPECIFY)		(SPECIFY)

PRINTED CIRCUIT BOARD DRILLING



SHAFT, BUSHING, AND FLAT OPTIONS

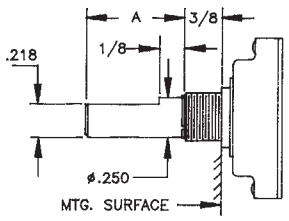


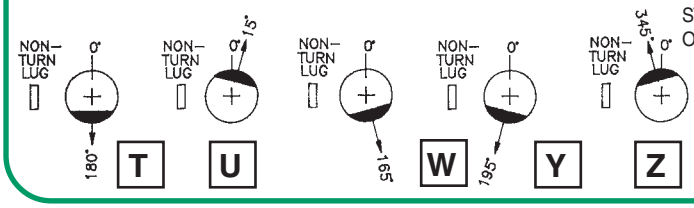
CHART "A"

P/N OPT.	SHAFT LGTH. "A"	
01	3/8	- STD.
02	1/2	
03	9/16	
04	3/4	
05	7/8	
06	1	

CHART "B"

P/N OPT.	FLAT ANGLE	
T	180°	- STD.
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.



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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**

M

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OPEN FRAME WORKSHEET

SERIES PREFERRED _____

ELECTRICAL REQUIREMENTS:

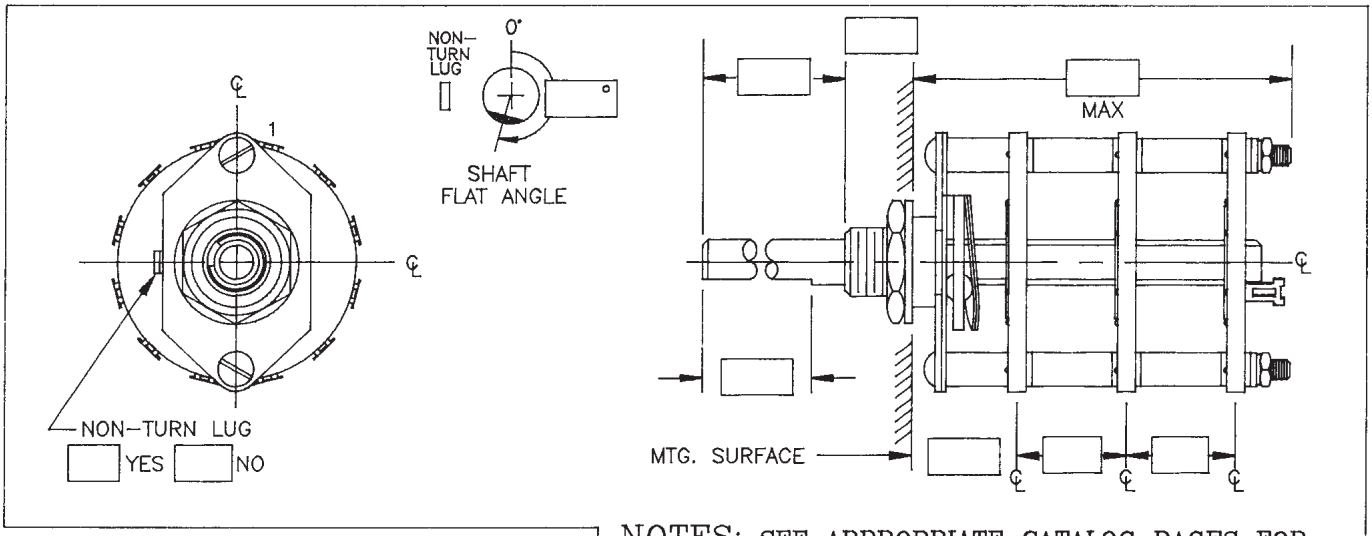
☐ SHORTING OR ☐ NON-SHORTING

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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(888) ROTARYS

Sender Information

Date: _____ Time: _____

Name: _____

Company: _____

Address: _____

_____

Ph #: _____

Fax #: _____

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	M4D0212N	MB
04	02-12	1	4	M4D0412S	M4D0412N	MB

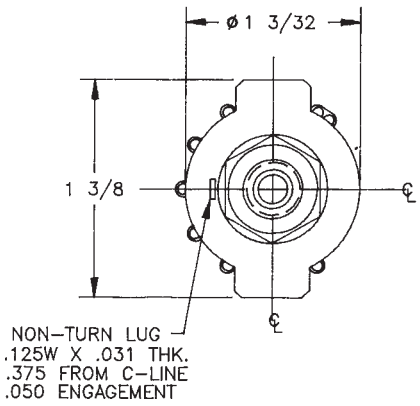
1 WAFER/DECK CONSTRUCTION SWITCHES - 30° INDEXING
ADJUSTABLE STOPS SET @ 6 POS. - SOLDER LUG TERMINALS

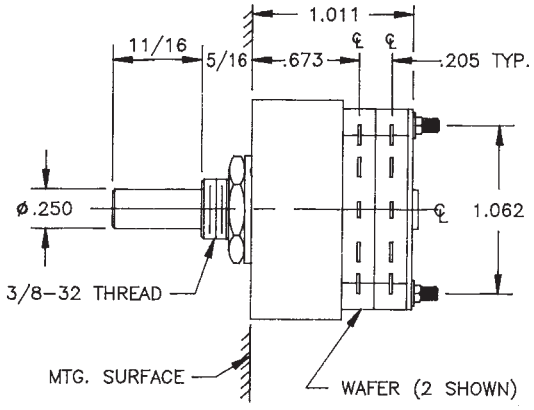
POLES	ACTIVE POSITIONS	POLES/ DECK	NO. OF DECKS	SHORTING	NON-SHORTING	FIG. *
01	02-06	1	1	M4D01 06S	M4D01 06N	MA
02	02-06	1	2	M4D0206S	M4D0206N	MA
03	02-06	1	3	M4D0306S	M4D0306N	MA
04	02-06	1	4	M4D0406S	M4D0406N	MA

* FIGURES ARE SHOWN ON PAGE 57.

DIMENSIONS

STANDARD CONSTRUCTION **M4D** - DIALLYL PHTHALATE CONSTRUCTION





M

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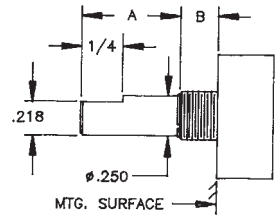
How to Order Additional Options:

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

M	4	D					ADDITIONAL OPTIONS		
			(SPECIFY)	(SPECIFY)	(SPECIFY)		(SPECIFY)	(SPECIFY)	(SPECIFY)

SHAFT, BUSHING, AND FLAT OPTIONS



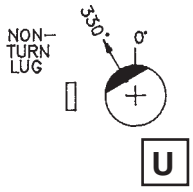


CHART "A"

P/N OPT.	SHAFT LGTH. "A"	BUSH. LGTH. "B"	
01	11/16	5/16	- STD
02	7/16	7/16	

CHART "B"

P/N OPT.	FLAT ANGLE	
U	330°	
B	ROUND	- STD

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

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M5 - SERIES

SPECIFICATIONS AND ORDERING INFORMATION

1" DIAMETER 2.0 AMPS @ 28 VDC

The M5 Series was orginally 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

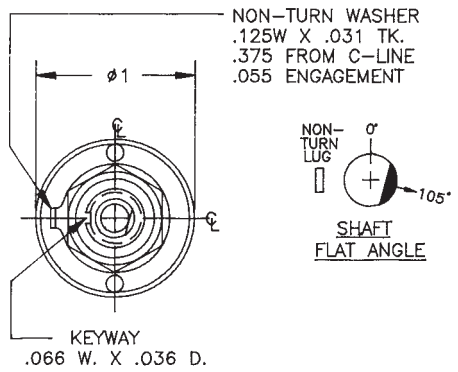
SWITCHES - 30° INDEXING - STOPS SET @ 2 POS. - SOLDER LUG TERMINALS

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

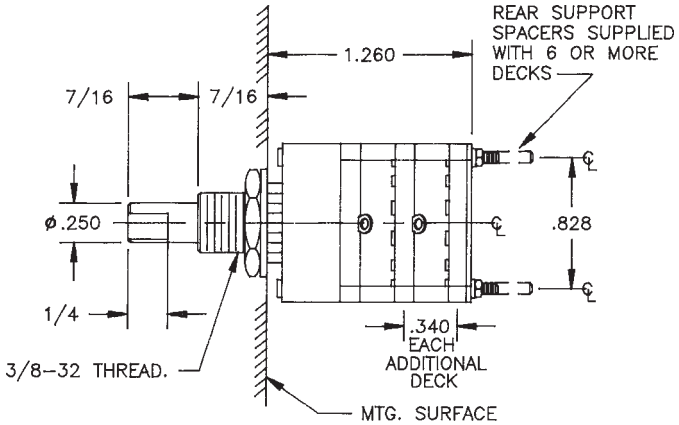
* FIGURES ARE SHOWN ON PAGE 55.

DIMENSIONS

STANDARD CONSTRUCTION



M5D - DIALLYL 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° *NOT AVAILABLE IN SHORTING	F - FIXED A - ADJ. (30° AND 36° ONLY) C - CONT.	SEE CHART "A"	SEE CHART "B"

CUSTOMERS SPECIFIED ORDER NUMBER FOR STANDARD OPTIONS

M	5	D					—	ADDITIONAL OPTIONS			
			(SPECIFY)	(SPECIFY)	(SPECIFY)			(SPECIFY)	(SPECIFY)	(SPECIFY)	(SPECIFY)

SHAFT, BUSHING, AND FLAT OPTIONS

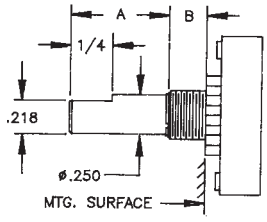


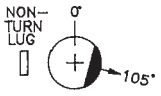
CHART "A"

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

CHART "B"

P/N OPT.	FLAT ANGLE	
U	105°	- STD
B	ROUND	

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



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M

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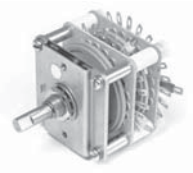
M6 - SERIES

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

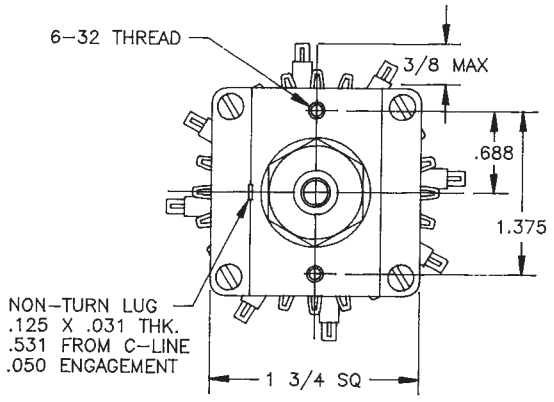
EPOXY GLASS INSULATION SWITCHES - 30° INDEXING
ADJUSTABLE STOPS SET @ 2 POS. - SOLDER LUG TERMINALS

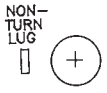
POLES	ACTIVE POSITIONS	POLES/ SECTION	NO. OF SECTIONS	SHORTING	NON-SHORTING	FIG. *
01	02-12	1	1	M6G0112S	M6G0112N	MC
02	02-12	1	2	M6G0212S	M6G0212N	MC
02	02-06	2	1	M6G0206S	M6G0206N	MD
03	02-12	1	3	M6G0312S	M6G0312N	MC
04	02-12	1	4	M6G0412S	M6G0412N	MC
04	02-06	2	2	M6G0406S	M6G0406N	MD
06	02-06	2	3	M6G0606S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

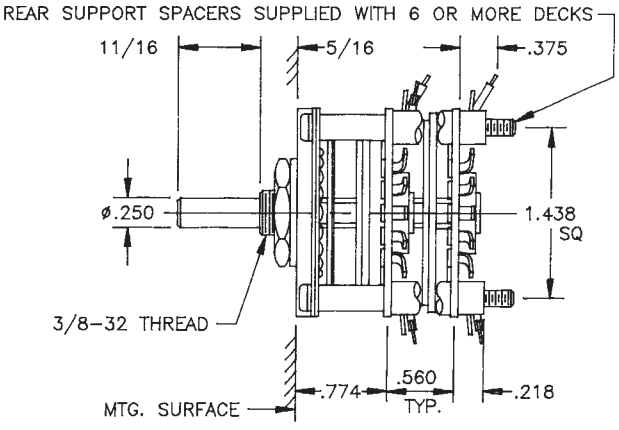
* FIGURES ARE SHOWN ON PAGE 57.

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	TERMINAL TYPE	INDEX ANGLE	STOP TYPE	SHAFT/ BUSHING	SHAFT FLAT
M6	G - GLASS	01 - MIN.	12 - MAX @ 30° 16 - MAX @22.5°	N - NON-SHORTING S - SHORTING	L - SOLDER LUG R - REAR P.C.	11.5° 15° 22.5° 30°	A - ADJ. C - CONT.	SEE CHART "A"	SEE CHART "B"
M6	G - GLASS	01 - MIN.	32 - MAX @11.5° 24 - MAX @ 15°	S - SHORTING					

CUSTOMERS SPECIFIED ORDER NUMBER FOR STANDARD OPTIONS — ADDITIONAL OPTIONS

M	6	G	(SPECIFY)	(SPECIFY)	(SPECIFY)	—	(SPECIFY)	(SPECIFY)	(SPECIFY)	(SPECIFY)	(SPECIFY)

SHAFT, BUSHING, AND FLAT OPTIONS

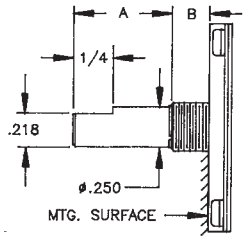


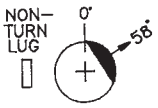
CHART "A"

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

CHART "B"

P/N OPT.	FLAT ANGLE	
B	ROUND	- STD
U	58°	

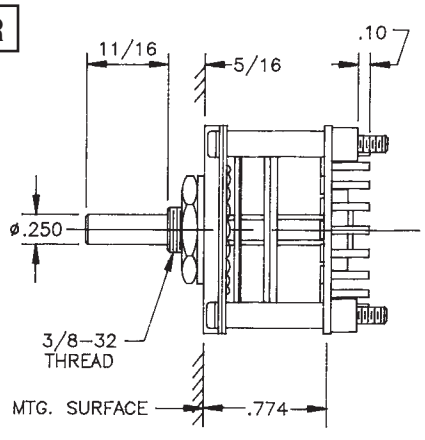
SHAFT AS VIEWED WITH NON-TURN LUG AT 9 O'CLOCK AND SHAFT IN EXTREME CCW POSITION AND STRUT BOLTS ORIENTED VERTICALLY.



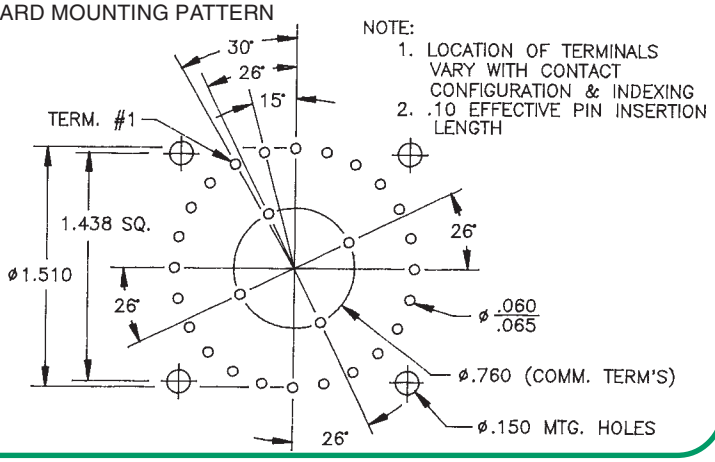
U

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

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M7 - SERIES

SPECIFICATIONS AND ORDERING INFORMATION

2 1/2" SQUARE 0.5 AMPS @ 28 VDC

The M7 Series was orginially 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

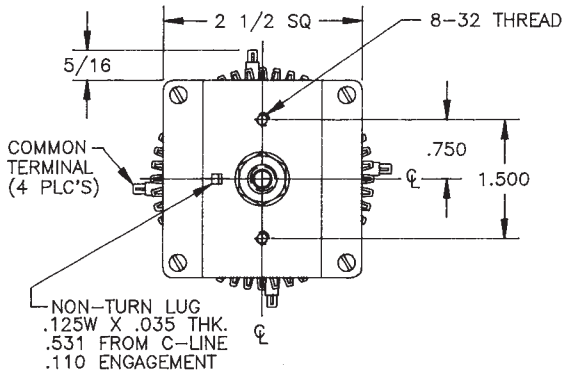
EPOXY GLASS INSULATION SWITCHES - 7.5° INDEXING
ADJUSTABLE STOPS SET @ 2 POS. - SOLDER LUG TERMINALS

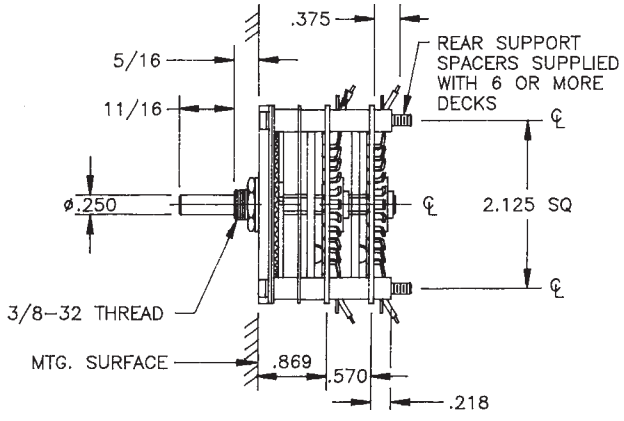
POLES	ACTIVE POSITIONS	POLES/ SECTION	NO. OF SECTIONS	SHORTING	NON-SHORTING	FIG. *
01	02 - 48	1	1	M7G0148S-75		MI

* 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

M 7 | G | (SPECIFY) | (SPECIFY) | (SPECIFY) | —

ADDITIONAL OPTIONS

(SPECIFY) | (SPECIFY) | (SPECIFY) | (SPECIFY)

SHAFT, BUSHING, AND FLAT OPTIONS

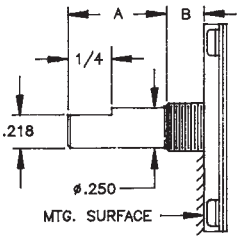


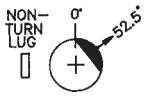
CHART "A"

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

CHART "B"

P/N OPT.	FLAT ANGLE	
B	ROUND	- STD
U	52.5°	

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



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SECTION ASSEMBLIES
AVAILABLE SEPARATE

POLES	NO. OF POSITIONS	POLES/ SECTION	INDEX ANGLE	SHORTING PART NUMBERS	NON-SHORTING PART NUMBERS	FIG.
D2D - SERIES		DIALLYL 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

ELECTROSWITCH • ELECTRONIC PRODUCTS
UNIT OF ELECTRO SWITCH CORP.
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Raleigh, NC 27604
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Fax: (800) 909-9171 or (919) 833-8016

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

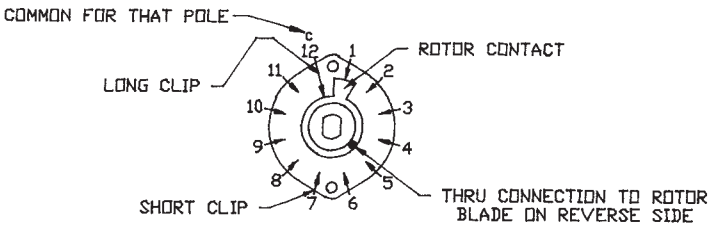
Part Number	P 2300	5149A	SSKW	SSKB		
Switch Type	Rotary	Lever	Lever	Lever		
Shaft Diameter	0.250	0.187x0.050	0.187x0.060	0.187x0.060		
Description	Pointer knob with one set screw	Oval knob push on design	Switch tip push on design-white	Switch tip push on design-black		
Overall Length	1.25	0.79	0.35 Dia.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

* Discontinued

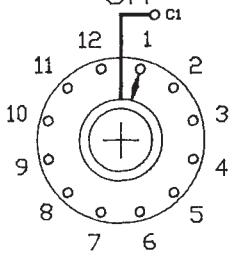
FIGURES/CIRCUIT DIAGRAMS



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.

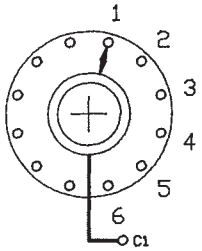
THE 'REAR' SIDE DIAGRAM OF THE SECTION IS VIEWED AS TRANSPARENT FROM THE KNOB END.

CA



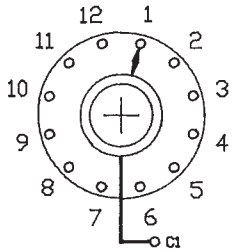
ONE POLE
2-12 POSITION

CB



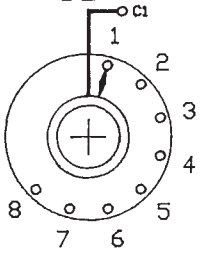
ONE POLE
2-6 POSITION
VPC

CC



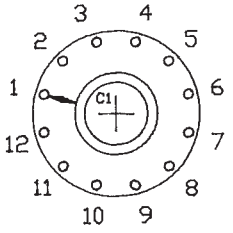
ONE POLE
2-12 POSITION
VPC

CD



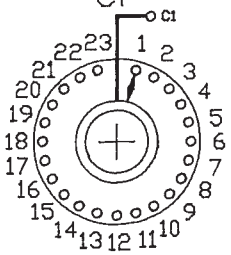
ONE POLE
2-8 POSITION

CE



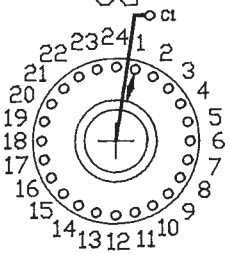
ONE POLE
2-12 POSITION

CF



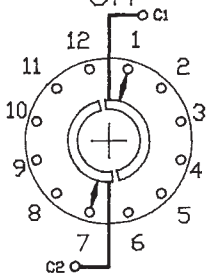
ONE POLE
2-23 POSITION

CG



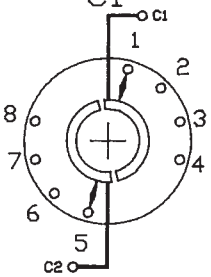
ONE POLE
24 CONTINUOUS

CH



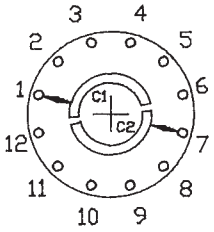
TWO POLE
2-6 POSITION

CI



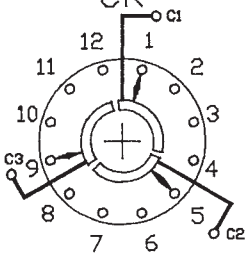
TWO POLE
2-4 POSITION

CJ



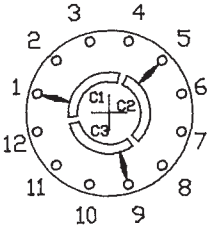
TWO POLE
2-6 POSITION

CK



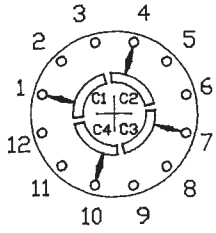
THREE POLE
2-4 POSITION

CL



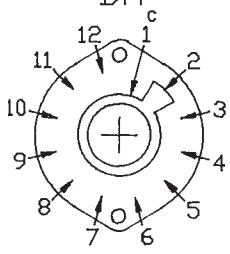
THREE POLE
2-4 POSITION

CM



FOUR POLE
2-3 POSITION

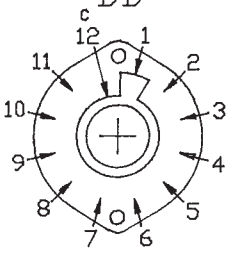
DA



REAR

ONE POLE
2-11 POSITION

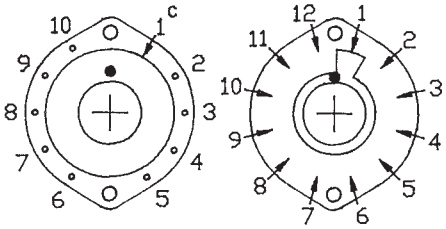
DB



REAR

ONE POLE
2-11 POSITION

DD

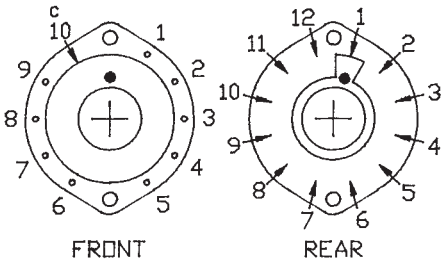


FRONT REAR

ONE POLE, 2-12 POSITION

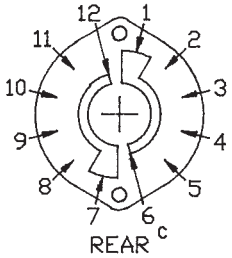
FIGURES/CIRCUIT DIAGRAMS

DE



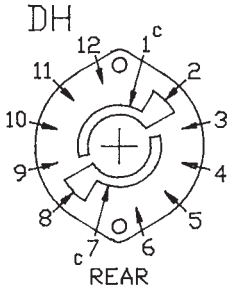
ONE POLE, 2-12 POSITION

DG



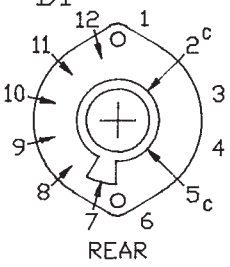
TWO POLE
2-5 POSITION

DH



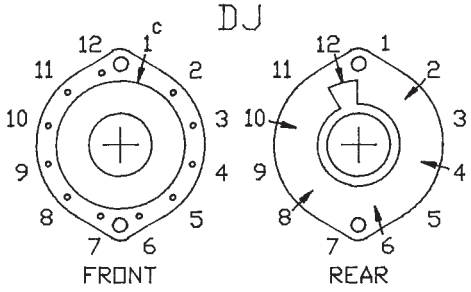
TWO POLE
2-5 POSITION

DI



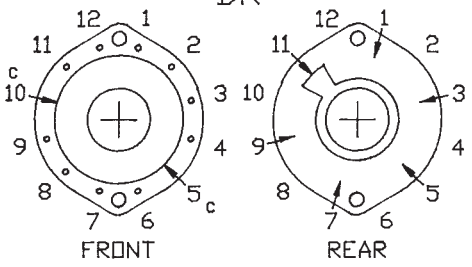
ONE POLE
2-6 POSITION

DJ



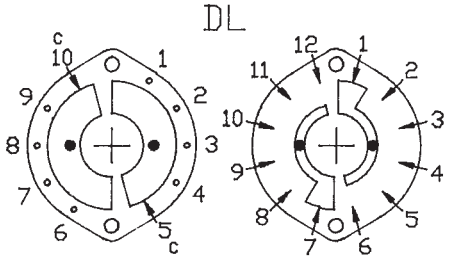
ONE POLE, 2-6 POSITION

DK



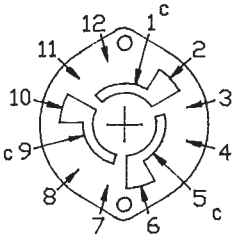
ONE POLE, 2-6 POSITION

DL



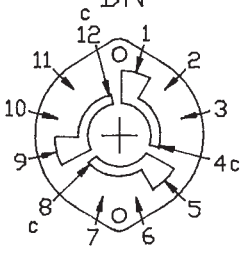
TWO POLE, 2-6 POSITION

DM



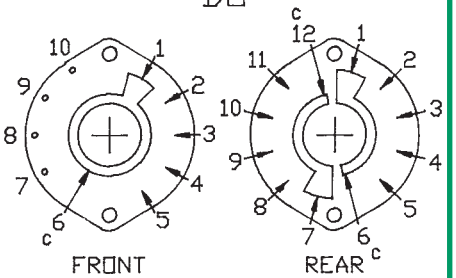
THREE POLE
2-3 POSITION

DN



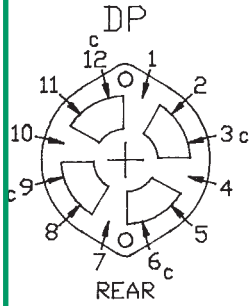
THREE POLE
2-3 POSITION

DO



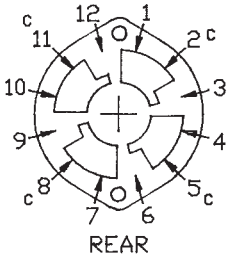
THREE POLE, 2-5 POSITION

DP



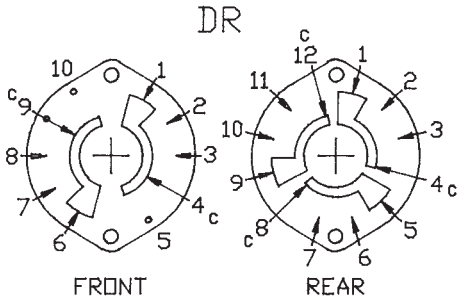
FOUR POLE
2 POSITION

DQ



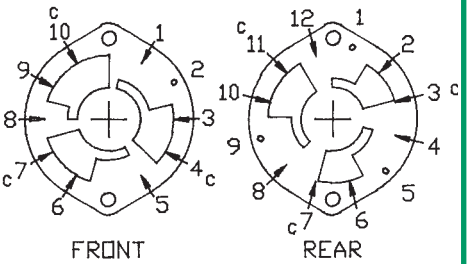
FOUR POLE
2 POSITION

DR



FIVE POLE, 2-3 POSITION

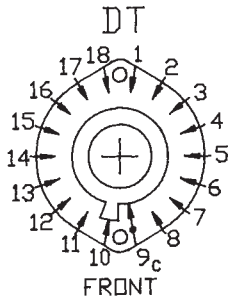
DS



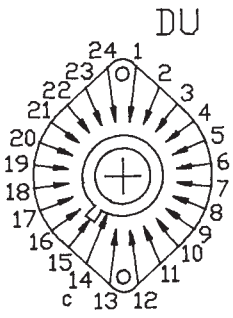
SIX POLE, 2 POSITION

VIEWED FROM THE KNOB END OF SWITCH

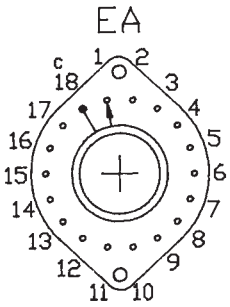
FIGURES/CIRCUIT DIAGRAMS



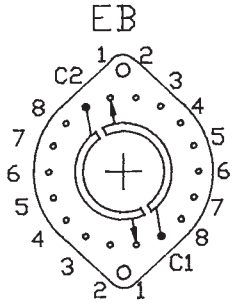
ONE POLE
2-17 POSITION



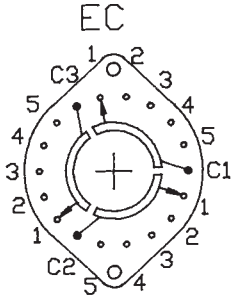
ONE POLE
2-23 POSITION



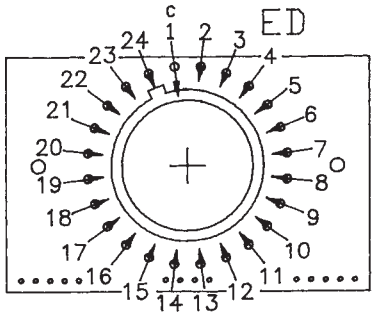
ONE POLE
2-17 POSITION



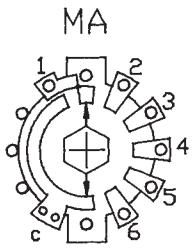
TWO POLE
2-8 POSITION



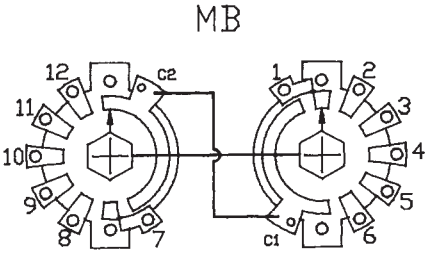
THREE POLE
2-5 POSITION



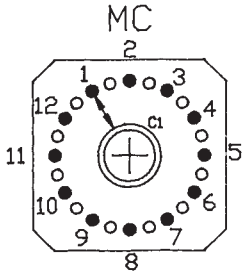
ONE POLE, 2-23 POSITION



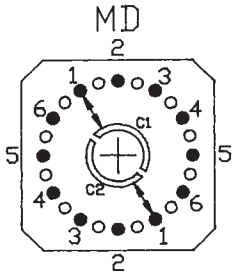
ONE POLE
2-6 POSITION



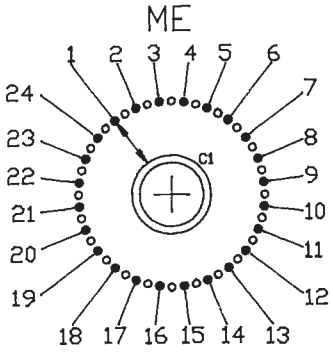
ONE POLE, 2-12 POSITION



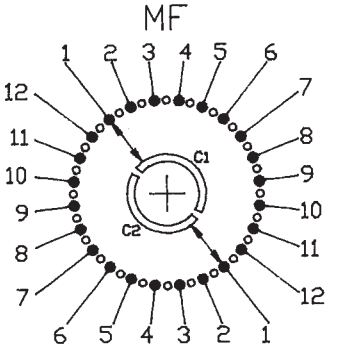
ONE POLE
2-12 POSITION



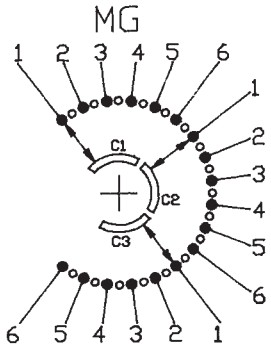
TWO POLE
2-6 POSITION



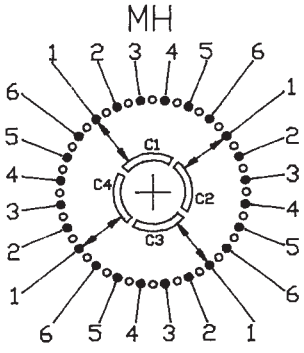
ONE POLE, 2-24 POSITION



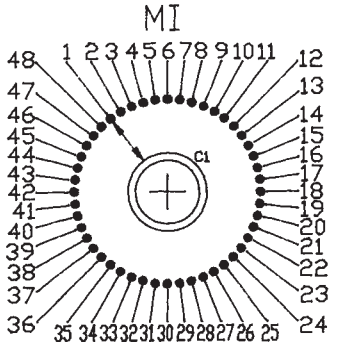
TWO POLE, 2-12 POSITION



THREE POLE, 2-6 POSITION



FOUR POLE, 2-6 POSITION

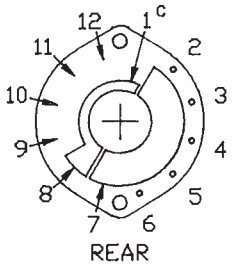


ONE POLE, 2-48 POSITION

VIEWED FROM THE KNOB END OF SWITCH

REFERENCE FIGURES/CIRCUIT DIAGRAMS

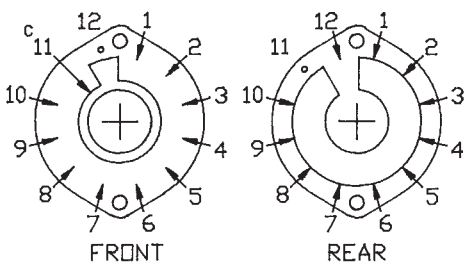
RA



REAR

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

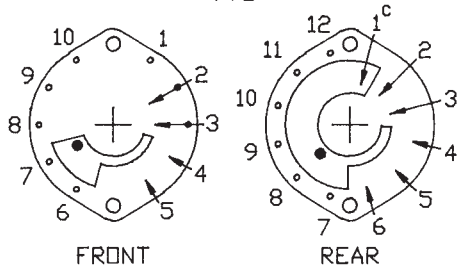
RB



FRONT REAR

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

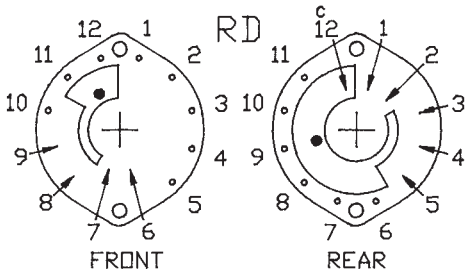
RC



FRONT REAR

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.

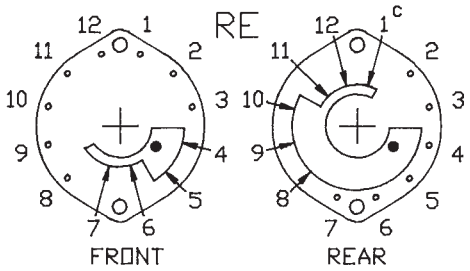
RD



FRONT REAR

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.

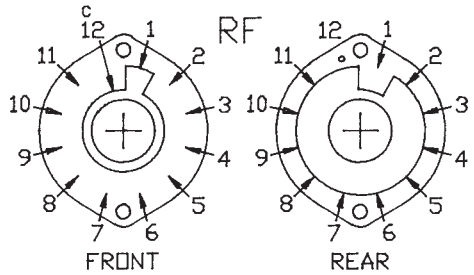
RE



FRONT REAR

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.

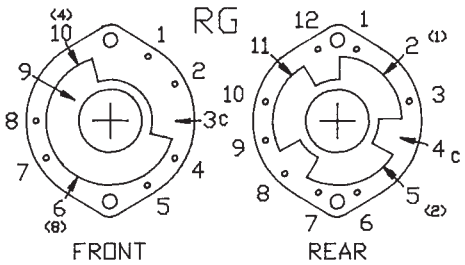
RF



FRONT REAR

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

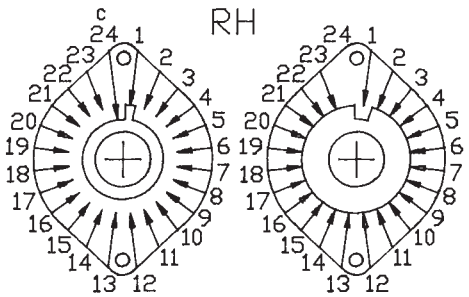
RG



FRONT REAR

BCD OR COMPLEMENT

RH



FRONT REAR

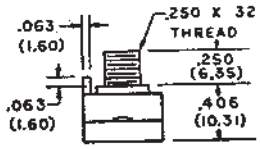
TWO POLE, 2-23 POSITION.
ALL UNUSED CLIPS CONNECTED AND SHORTED OUT.

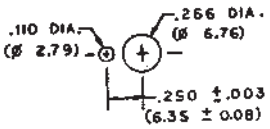
VIEWED FROM THE KNOB END OF SWITCH

PANEL CUTOUTS

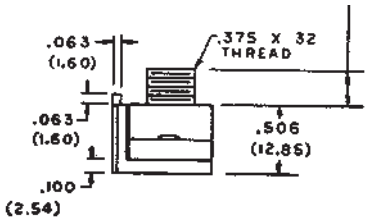
C1 SERIES

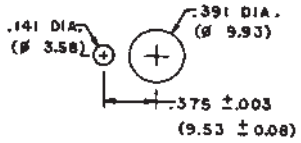
STANDARD - TW0 PIECE
(FOR .125" DIA. SHAFT)





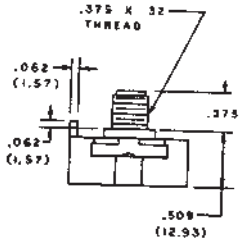
OPTIONAL - ONE PIECE
(FOR .250" DIA. SHAFT)



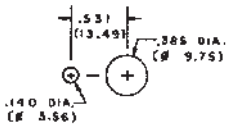


C4 SERIES

STANDARD - ONE PIECE

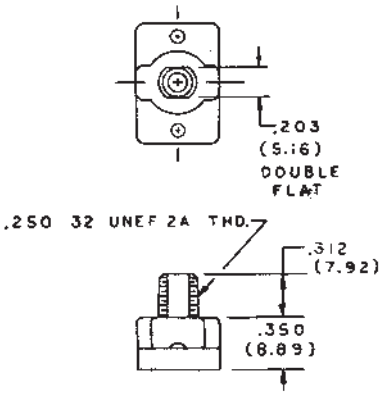


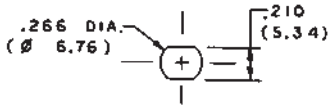
ONE PIECE
DIE CAST



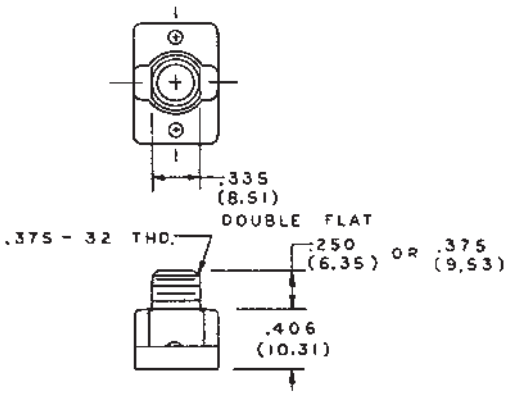
C2/C3 SERIES

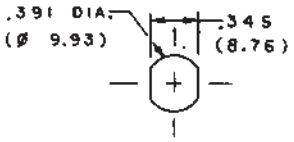
STANDARD - 1/4 - 32 THD.





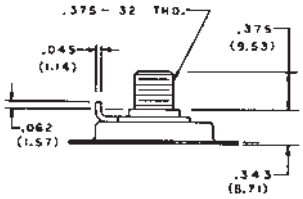
OPTIONAL - 3/8 - 32 THD.



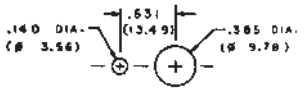


C7 AND E5 SERIES

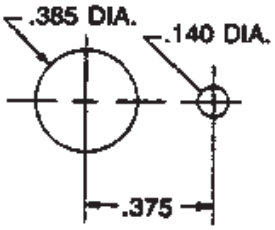
STANDARD



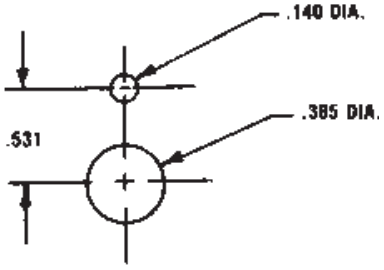
BRASS BUSHING/STEEL HSG.



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

	NKK	Electroswitch
Toggles:	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

	Carling	Electroswitch
Toggles:	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

	Grayhill	Electroswitch
Toggles:	34A Series	A Series
	34B Series	WT Series
Rockers:	47A Series	B Series
	47B Series	WR Series
Pushbuttons:	39-2 Series	SA1 Series

	APEM	Electroswitch
Toggles:	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

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

	Grayhill	Electroswitch
Encoders:	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

	Clarostat	Electroswitch
Encoders:	510 Series	700 Series
	600	900 Series

	Dialight	Electroswitch
Indicator	252-9951-	LHC82
Lights:	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 ship-board 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.

ELECTROSWITCH • ELECTRONIC PRODUCTS
UNIT OF ELECTRO SWITCH CORP.