Table of Contents

(-	iews and Glossaryethods	
C	Enclosed Fr C1 Series C2/C3 Series C4 Series C5/C6 Series	elector Guiderame Worksheetes	5 8-9 10-11 12-13
D	D1 Series D2 Series D3 Series D4 Series D5 Series D6 Series D7 Series D8 Series	elector Guide	
E	E1 Series E2 Series E3 Series E4 Series	lector Guide	37 38 39 40-41
M	Open Frame M4 Series M5 Series M6 Series	elector Guide e Worksheet	45 46-47 48-49 50-51
	Knobs and I Figures/Circ Panel Cutou Operating To Additional P C4/IP67	, Index Assemblies Dial Plates cuit Diagrams uts emperature Range Chart Products & Manufacturers	

C

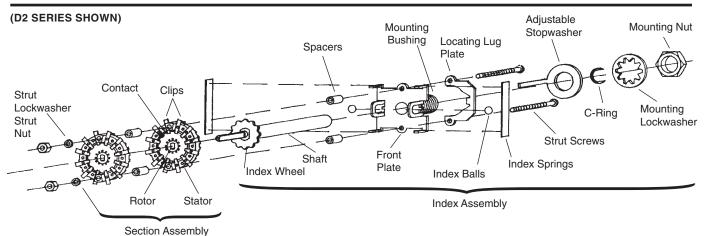
D

E

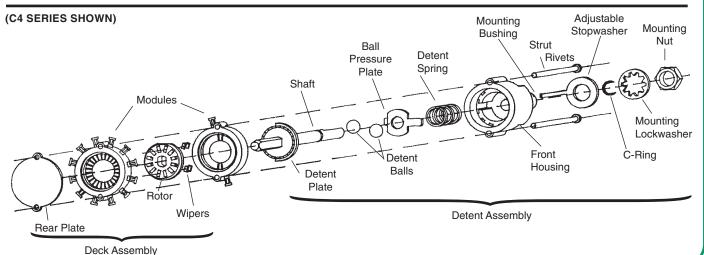
M

EXPLODED VIEWS AND GLOSSARY

EXAMPLE OF OPEN FRAME CONSTRUCTION



EXAMPLE OF ENCLOSED FRAME CONSTRUCTION



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.

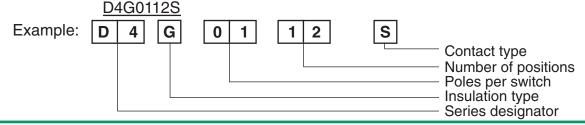
Stop Strength - The maximum rotation force the mechanical stop can facilitate.



ORDERING METHODS

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

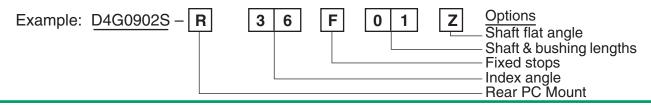
■ 1. Use the pre-designed standard part numbers printed in the catalog.



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

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.



■ 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
Ε	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
Ε	Current Carrying Capacity	6A	6A	6A	15A	5A	25A
С	Dielectric Strength	600 VAC	1,000 VAC	1,000 VAC	1,000 VAC	1,000 VAC	1,000 VAC
Т	Insulation Resistance	10,000	10,000	10,000	10,000	10,000	10,000
R	(megohms)						
1	Contact Resistance	5	30	30	3	20	3
С	(milliohms)						
Α	()						
Ľ							
_							
M	Insulation - Glass Epoxy	NO	NO	NO	YES ★	NO	NO
Α	Diallyl Phthalate	STANDARD	NO	NO	STANDARD	NO	STANDARD
Т	Ceramic	NO	NO	NO	NO	NO	NO
Ε	Polyester	NO	STANDARD	STANDARD	NO	STANDARD	NO
R							
1	Contacts - Silver Alloy ★	YES	NO	NO	YES	NO	YES
Α	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.
Ε	Mechanical Life	25,000 cycles	25,000 cycles	25,000 cycles	25,000 cycles	10,000 cycles	25,000 cycles
С	Detenting Angles: 15°	-	_	-	_	_	15
Н							
Α	30 °	30	30	30	30	30	30
N	36 °	_	_	_	36	_	_
ı	45°	_	_	_	45	_	-
С	60 °	60	60	60	60	_	60
Α	90°	90	90	90	90	_	90
L							
0	Quick Connect	NO	NO	NO	YES	NO	YES
Р	Rear PC Mount	YES	NO	NO	YES	YES	NO
Т	Vertical PC Mount ★	YES	YES	YES	YES	NO	NO
1	Front PC Mount ★	NO	NO	NO	YES	NO	NO
0	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



2010 Yonkers Road Raleigh, NC 27604

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

ENCLOSED FRAME WORKSHEET

ENCLOSED LY	AML WU	KNOUFFI
SERIES PREFERRED		
ELECTRICAL REQUIREMENTS	:	
SHORTING OR NON-SHORT		
CURRENT CARRYING CAPACITY	==	
INTERRUPTING CURRENT		
MAXIMUM WORKING VOLTAGE		
ADDITIONAL REQUIREMENTS	•	
•		
	NOTES: SEE	G. SURFACE MAX E APPROPRIATE CATALOG PAGES FOR INDARD DIMENSIONS AND OPTIONS.
Estimated usage		
ADDITIONAL REQUIREMENTS:		
•		
• ELECTROSWITCH • ELECTRONIC PRODUCTS		Sender Information
UNIT OF ELECTRO SWITCH CORP.	FAX Numbers:	Date: Time:
2010 YONKERS ROAD, RALEIGH, NC 27604	(919) 833-8016	Name:
	(800) 909-9171 FOR ASSISTANCE	Company:Address:
	PLEASE CALL:	
FAX TRANSMISSION	(919) 833-0707	Ph #:
	(888) ROTARYS	Fax #:

C1 - SERIES

SPECIFICATIONS AND ORDERING INFORMATION

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



SPECIFICATIONS

ELECTRICAL

C

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

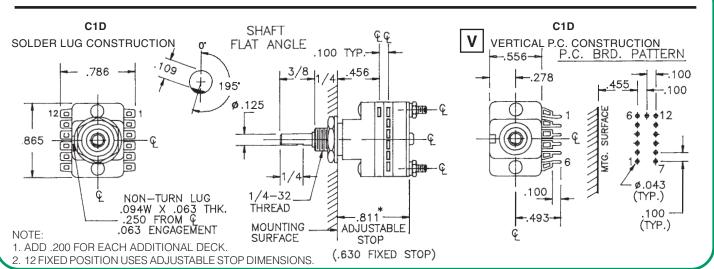
SWITCHES - 30° INDEXING - STOPS SET @ 2 POS.

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

POLES	ACTIVE POSITIONS	POLES/ DECK	NO. OF DECKS		NON- SHORTING	FIG.	POLES	ACTIVE POSITIONS	POLES/ DECK	NO. OF DECKS	SHORTING	NON- SHORTING	FIG.
01	02-12	1	1	C1D0112S - A	C1D0112N - A	CA	01	02-06	1	1	C1D0106S - VA	C1D0106N - V	A CB
02	02-12	1	2	C1D0212S - A	C1D0212N - A	CA	01	02-12	1	1	C1D0112S - VA	C1D0112N - V	A CC
02	02-06	2	1	C1D0206S - A	C1D0206N - A	CH	02	02-06	1	2	C1D0206S - VA	C1D0206N - V	A CB
03	02-12	1	3	C1D0312S - A	C1D0312N - A	CA	02	02-12	1	2	C1D0212S - VA	C1D0212N - V	A CC
03	02-04	3	1	C1D0304S - A	C1D0304N - A	CK	03	02-06	1	3	C1D0306S - VA	C1D0306N - V	A CB
04	02-06	2	2	C1D0406S - A	C1D0406N - A	CH	03	02-12	1	3	C1D0312S - VA	C1D0312N - V	A CC
06	02-04	3	2	C1D0604S - A	C1D0604N - A	CK	04	02-06	1	4	C1D0406S - VA	C1D0406N - V	A CB
06	02-06	2	3	C1D0606S - A	C1D0606N - A	CH	04	02-12	1	4	C1D0412S - VA	C1D0412N - V	A CC

* FIGURES ARE SHOWN ON PAGE 55.

DIMENSIONS





C1 - SERIES

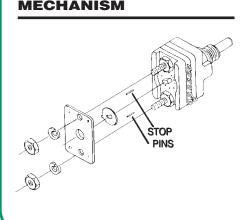
How to Order Additional Options:

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

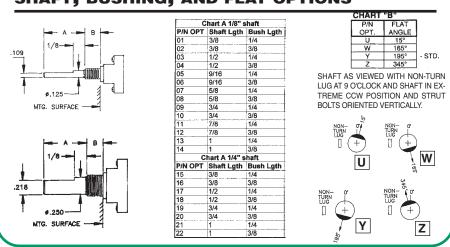
TERMINAL TYPE	INDEX ANGLE	STOP TYPE	SHAFT/ BUSHING	SHAFT FLAT
L - SOLDER LUG	30°	F - FIXED		
V - VERT. P.C.	60° 90°	C - CONT. A - ADJ.		
R - REAR P.C.	30° 60° 90°	F - FIXED C - CONT.	SEE CHART "A"	SEE CHART "B"

CUSTOMERS SPECIFIED ORDER NUMBER FOR STANDARD OPTIONS ADDITIONAL OPTIONS								1
C 1 D								
	(SPECIFY)							

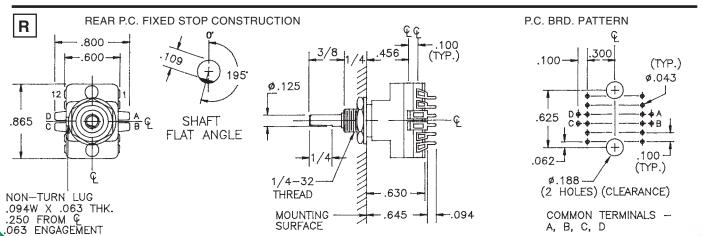
ADJUSTABLE STOP MECHANISM



SHAFT, BUSHING, AND FLAT OPTIONS



PRINTED CIRCUIT BOARD TERMINAL OPTIONS



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



0.82 / 1.2" WIDE 0.25 AMP @ 28 VDC

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



SPECIFICATIONS

ELECTRICAL

Current and Voltage Rating: Make and break resistive load

0.25 amp @ 28 VDC; 0.1 amp @ 125 VAC. Current Carrying Capacity: 6 amps.

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

ground.

Contact Resistance: Average initial 30 milliohms. Insulation Resistance: In excess of 10,000 megohms.

Hardware: Mounting nut and lockwasher are shipped assembled.

MECHANICAL

Materials and Finishes: All parts utilize non-corrosive materials

as standard.

Terminals and Contacts: Brass with silver plate as standard.

Insulation: Polyester.

Index: Dual-ball, hill and valley. Index Life: 25,000 cycles minimum.

Index Torque: Switches have lowest practical torque consistent

with crisp detenting and smooth, reliable operation.

Index Angles: Positive 30° standard, 60°, and 90° available. Index Stops: Fixed standard, adjustable, or continuous available.

Stop Strength: 8 in. lbs. minimum.

STANDARD PART NUMBER

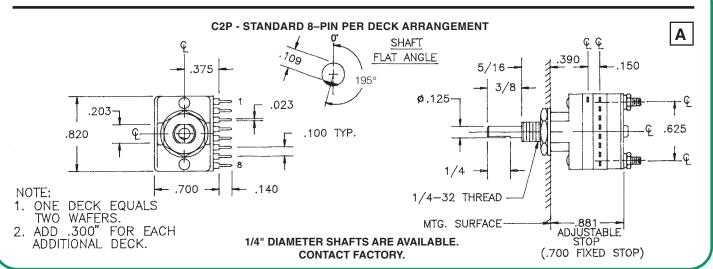
C2 - 8 PIN CONSTRUCTION SWITCHES - 30° INDEXING ADJUSTABLE STOPS SET @ 2 POS. - P.C. TERMINALS C3 - 12 PIN CONSTRUCTION SWITCHES - 30° INDEXING ADJUSTABLE STOPS SET @ 2 POS. - P.C. TERMINALS

501.50	ACTIVE	POLES/	NO. OF	SHORTING	NON-	FIG.
POLES	POSITIONS	DECK	DECKS		SHORTING	*
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

	ACTIVE	POLES/	NO. OF	SHORTING	NON-	FIG.
POLES	POSITIONS	DECK	DECKS		SHORTING	*
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

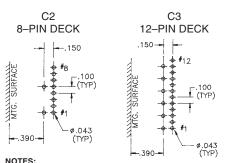




How to Order Additional Options:

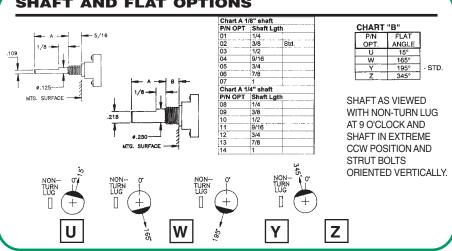
2 DIGIT SERIES	INSULATION TYPE	TOTAL POLES	ACTIVE POSITIONS	CONTACT TYPE	TERMINAL TYPE	INDEX ANGLE	STOP TYPE	SHAFT/ BUSHING	SHAFT FLAT
C2	P-POLYESTER	01 - MIN.	08 - MAX @ 30°	N - NON		30°	F - FIXED		
l			04 - MAX @ 60°	SHORTING		60°	C - CONT.		
			03 - MAX @ 90°	S - SHORTING		90°	A - ADJ.		
								SEE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

PRINTED CIRCUIT **BOARD PATTERN**

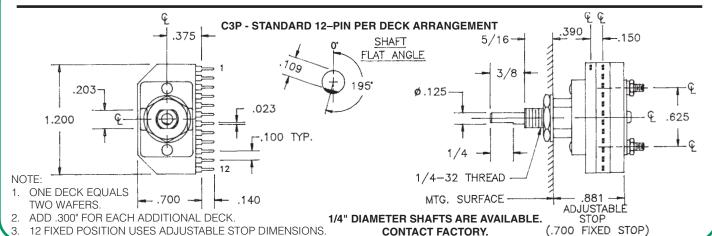


- 1. The standard spacing for the 1/8" dia. shaft from the first row of terminals to the mounting surface is .390 in.
- 2. The standard spacing for the 1/4" dia. shaft from the first row of terminals to the mounting surface is .481 in.

SHAFT AND FLAT OPTIONS



C3 - DIMENSIONS - 12 PIN DESIGN



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



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.



SPECIFICATIONS

FI FCTRICAL

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

C

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.

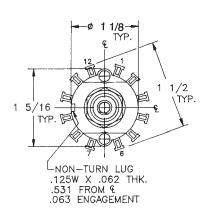
	ACTIVE	POLES/	NO. OF	SHORTING	NON-	FIG.
POLES	POSITIONS	DECK	DECKS		SHORTING	*
01	02-12	1	1	C4D0112S - A	C4D0112N - A	CA
02	02-06	2	1	C4D0206S - A	C4D0206N - A	CH
02	02-12	1	2	C4D0212S - A	C4D0212N - A	CA
03	02-12	1	3	C4D0312S - A	C4D0312N - A	CA
03	02-04	3	1	C4D0304S - A	C4D0304N - A	CK
04	02-12	1	4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

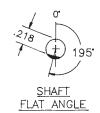
	ACTIVE	POLES/	NO. OF	SHORTING	NON-	FIG.
POLES	POSITIONS	DECK	DECKS		SHORTING	*
06	02-06	2	3	C4D0606S - A	C4D0606N - A	СН
06	02-04	3	2	C4D0604S - A	C4D0604N - A	CK
06	02-12	1	6	C4D0612S - A	C4D0612N - A	CA
80	02-06	2	4	C4D0806S - A	C4D0806N - A	CH
09	02-04	3	3	C4D0904S - A	C4D0904N - A	CK
10	02-06	2	5	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

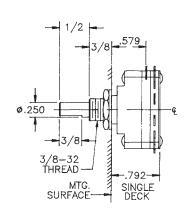


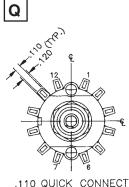


NOTE:

1. ONE DECK EQUALS TWO WAFERS.

2. ADD .284" FOR EACH ADDITIONAL DECK.





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



2010 Yonkers Road

Raleigh, NC 27604

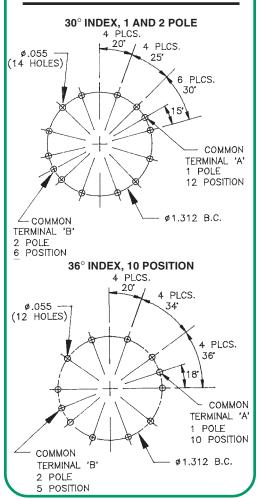
How to Order Additional Options:

2 DIGIT SERIES	INSULATION TYPE	TOTAL POLES	ACTIVE POSITIONS	CONTACT TYPE
C4	D - DIALLYL	01 - MIN.	12 - MAX @ 30°	S - SHORTING
			10 - MAX @ 36° 08 - MAX @ 45°	N - NON SHORTING
			06 - MAX @ 60° 04 - MAX @ 90°	

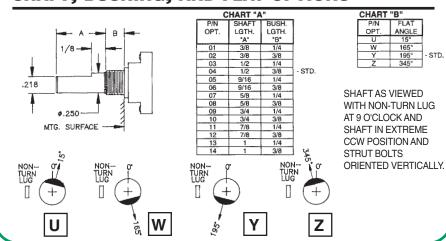
TERMINAL TYPE	INDEX ANGLE	STOP TYPE	SHAFT/ BUSHING	SHAFT FLAT
L - SOLDER LUG P - FRONT P.C. (NOT IN 45°)	30° 36°	F - FIXED A - A	D	J .
R - REAR P.C. (30° & 36° ONLY) Q - QUICK CONNECT	45° 60° 90°	(30°,60°,90° ONLY) C - CONT.	SEE CHART "A"	SEE CHART "B"

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

PRINTED CIRCUIT **BOARD HOLE PATTERNS**



SHAFT, BUSHING, AND FLAT OPTIONS



PRINTED CIRCUIT BOARD TERMINAL OPTIONS REAR PRINTED CIRCUIT FRONT PRINTED CIRCUIT ALIGNMENT PLATE 3/8 7/8 MAX ALIGNMENT PLATE COMMON ø.250 ø.250 .140 .094 3/8-32 3/8-32 THREAD THREAD 966 MTG. —— SURFACE MTG. SURFACE

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



2010 Yonkers Road Raleigh, NC 27604

C

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.



SPECIFICATIONS

FI FCTRICAL

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

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

		ACTIVE	POLES/	NO. OF	NON-	FIG.
	POLES	POSITIONS	SECTION	SECTIONS	SHORTING	*
	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
С	<u>6 - UNSE</u>	ALED				
	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

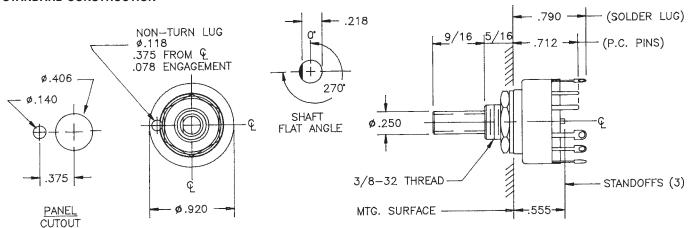
SWITCHES - 30° INDEX - ADJUSTABLE STOPS - SET @ 2 POS. - SEALED

POLES	ACTIVE POSITIONS	POLES/ SECTION	NO. OF SECTIONS	NON- FIG. SHORTING *
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 - UN	SEALED			
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

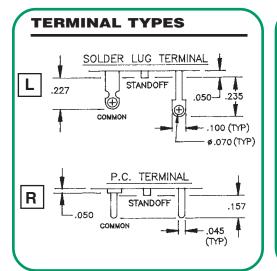
STANDARD CONSTRUCTION

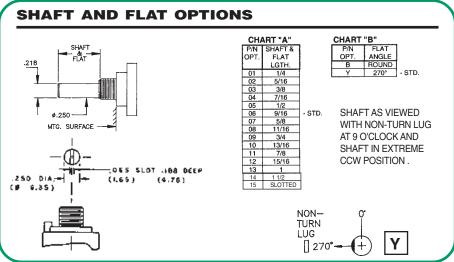


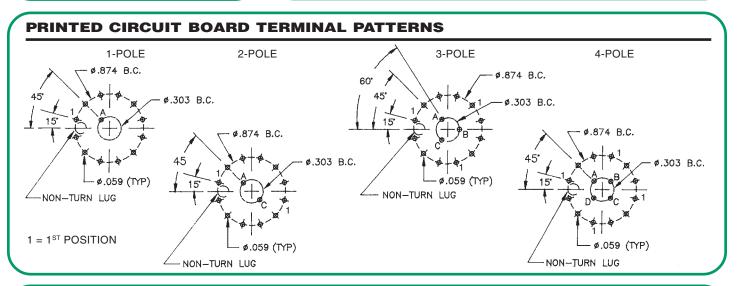


How to Order Additional Options:

2 DIGIT SERIES	INSULATION TYPE	TOTAL POLES	ACTIVE POSITIONS	CONTACT TYPE	TERMINAL TYPE	INDEX ANGLE	STOP TYPE	SHAFT/ BUSHING	SHAFT FLAT
C5	P - POLYESTER SEALED P - POLYESTER UNSEALED	01 02 03 04 01 02 03 04	12 - MAX 06 - MAX 04 - MAX 03 - MAX 12 - MAX 06 - MAX 04 - MAX 03 - MAX	N - NON - SHORTING N - NON - SHORTING	L - SOLDER LUG R - REAR P.C.		F - FIXED A - ADJ. C - CONT.	SEE CHART "A"	SEE CHART "B"
CUSTO	MERS SPECIFIED P	ORDER NU	MBER FOR STAN	NDARD OPTIONS	(SPECIFY)	ADDITI	ONAL OPTIO		(SPECIFY)







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



2 1/32" DIAMETER 1.0 AMP @ 28 VDC

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



SPECIFICATIONS

FI FCTRICAL

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

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

	ACTIVE	POLES/	NO.	OF SHORTING	G NON-	FIG.
POLES	POSITIONS	DECK	DEC	KS	SHORTING	*
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° IND	EXING					
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

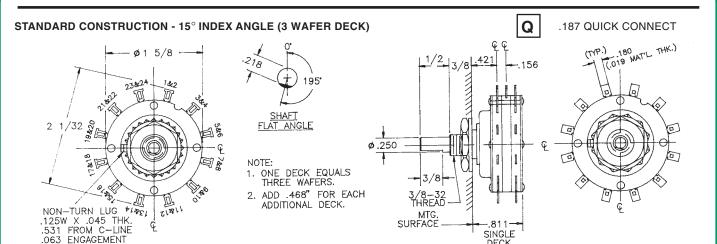
15° INDEXING - CONTINUOUS ROTATION

SOLDER LUG TERMINALS

POLES	ACTIVE POSITIONS	POLES/ DECK	NO. DEC		SHORTING	NON- SHORTING	FIG.
01	24	1	1	C7D	0124S - C	C7D0124N - C	CG
02	24	1	2	C7D	0224S - C	C7D0224N - C	CG
03	24	1	3	C7D	0324S - C	C7D0324N - C	CG
04	24	1	4	C7D	0424S - C	C7D0424N - C	CG
30° INDE	XING						
01	12	1	1	C7D0	112S -30C	C7D0112N -30C	CA
02	12	1	2	C7D02	212S -30C	C7D0212N -30C	CA
03	12	1	3	C7D03	312S -30C	C7D0312N -30C	CA

* FIGURES ARE SHOWN ON PAGE 55.

DIMENSIONS





2010 Yonkers Road Raleigh, NC 27604

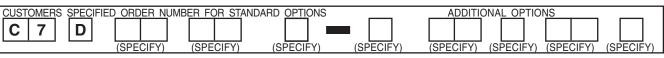
Fax: (800) 909-9171 or (919) 833-8016

C7 - SERIES

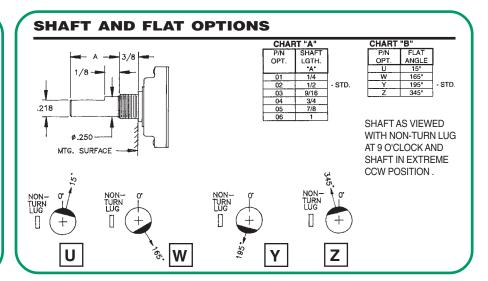
How to Order Additional Options:

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

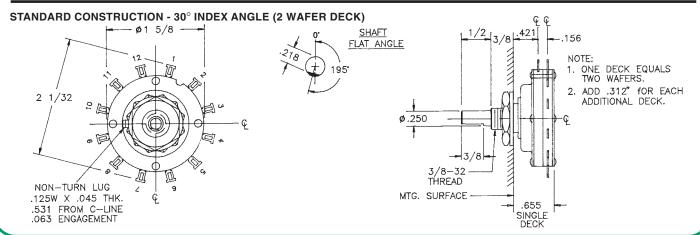
TERMINAL	INDEX	STOP	SHAFT/	SHAFT
TYPE	ANGLE	TYPE	BUSHING	FLAT
L - SOLDER LUG Q - QUICK CONNECT L - SOLDER LUG3 Q - QUICK CONNECT	15° 0° 60° 90°	F - FIXED 23 - POS. MAX. C - CONT. 24 - POS. MAX. A- Adjustable A23 - POS. MAX	SEE CHART "A"	SEE CHART "B"



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



DIMENSIONS



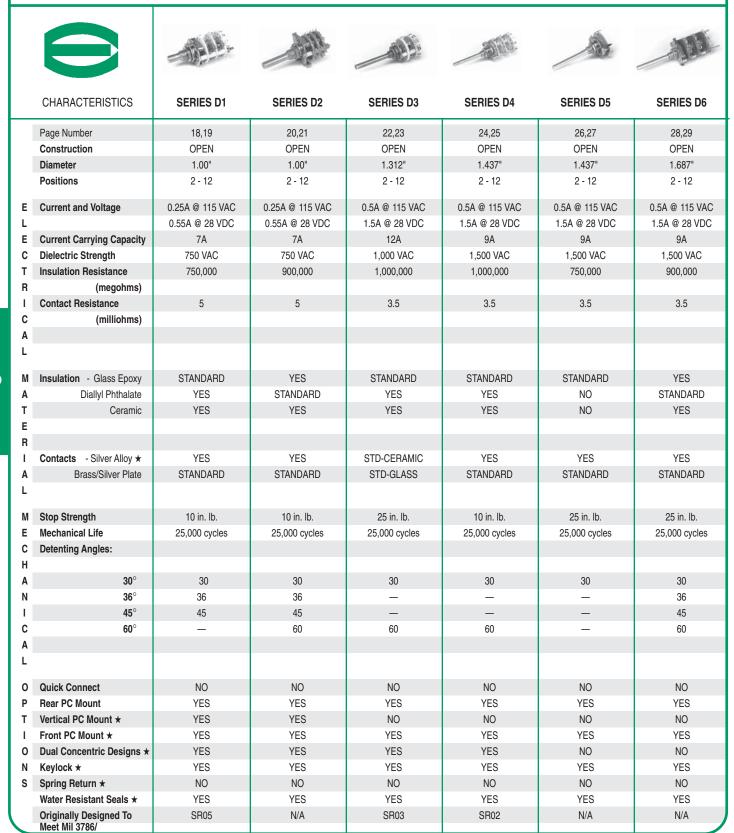
CUSTOM SWITCHES ARE AVAILABLE. CONTACT THE FACTORY WITH YOUR COMPLETE SPECIFICATIONS.



2010 Yonkers Road Raleigh, NC 27604 C

D

SELECTOR GUIDE OPEN FRAME ROTARY ELECTRONIC SWITCHES



★ Contact factory



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
Е	Current Carrying Capacity	9A	9A	9A
С	Dielectric Strength	1,500 VAC	1,000 VAC	1,000 VAC
Т	Insulation Resistance	750 ,000	750,000	750 ,000
R	(megohms)			
I	Contact Resistance	3.5	5	5
С	(milliohms)			
Α				
L				
М	Insulation - Glass Epoxy	STANDARD	STANDARD	STANDARD
Α	Diallyl Phthalate	NO	NO	NO
Т	Ceramic	YES	NO	NO
Е				
R				
1	Contacts - Silver Alloy ★	YES	YES	YES
Α	Brass/Silver Plate	STANDARD	STANDARD	STANDARD
L			-	
M	Stop Strength	25 in. lb.	25 in. lb.	25 in. lb.
Е	Mechanical Life	25,000 cycles	25,000 cycles	25,000 cycles
С	Detenting Angles: 15°	_	_	15
н	20 °	_	20	_
Α	22.5 °	_	_	_
N	30°	30	_	_
1	36 °	_	-	_
С	45°	_	_	_
Α	60°	60	-	-
L				
0	Quick Connect	NO	NO	NO
Р	Rear PC Mount	NO	NO	YES
Т	Vertical PC Mount ★	NO	NO	NO
1	Front PC Mount ★	NO	NO	NO
0	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.

★ Contact factory



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

FI FCTRICAL

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

Contact Resistance: Average initial 5 milliohms.

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

Ceramic in excess of 1,000,000 megohms.

Hardware: Mounting nut and lockwasher are shipped assembled.

MECHANICAL

Materials and Finishes: All parts utilize non-corrosive materials

as standard.

Clips and Rotors: Brass with silver plate as standard.

Insulation: Glass, diallyl phthalate, or ceramic.

Index: Dual-ball, side thrust design. Index Life: 25,000 cycles minimum.

Index Torque: Switches have lowest practical torque consistent

with crisp detenting and smooth, reliable operation.

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

Index Stops: Fixed or Continuous available.

Stop Strength: 10 in. lbs. minimum.

STANDARD PART NO.

EPOXY GLASS INSULATION

SWITCHES - SOLDER LUG TERMINALS - 30° INDEX

	ACTIVE	POLES/	NO. O	F SHORTIN	G NON-	FIG.
POLES	POSITIONS	SECTION	SECTIO	NS	SHORTING	*
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

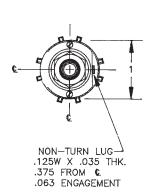
SWITCHES - SOLDER LUG TERMINALS - 30° INDEX

	ACTIVE	POLES/	NO. O			FIG.
POLES	POSITIONS	SECTION	SECTIO	NS	SHORTING	*
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

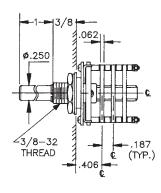
* FIGURES ARE SHOWN ON PAGES 55 AND 56.

DIMENSIONS

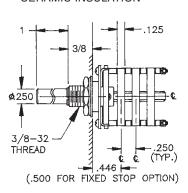
STANDARD CONSTRUCTION



D1G - STANDARD GLASS **EPOXY CONSTRUCTION**



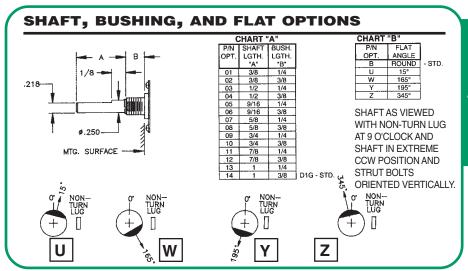
D₁C CERAMIC INSULATION

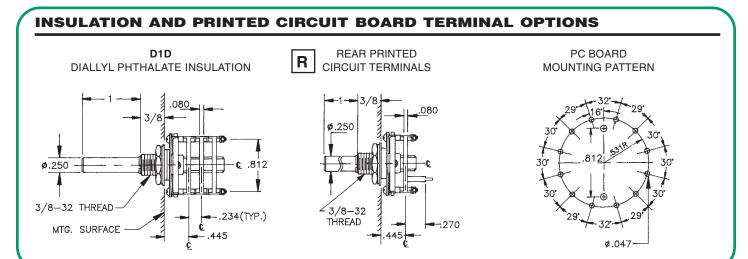




How to Order Additional Options:

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	SEE CHART
D1	C - CERAMIC	01 - MIN.	11 - MAX @ 30°	S - SHORTING N - NON- SHORTING	L - SOLDER LUG	30°	F - FIXED C - CONT.	"A"	"B"





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



1" DIAMETER 0.55 AMP @ 28 VDC

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

Contact Resistance: Average initial 5 milliohms.

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

Ceramic in excess of 1,000,000 megohms.

Hardware: Mounting nut and lockwasher are shipped assembled.

MECHANICAL

Materials and Finishes: All parts utilize non-corrosive materials

as standard.

Clips and Rotors: Brass with silver plate as standard.

Insulation: Diallyl phthalate, glass, or ceramic.

Index: Dual-ball, side thrust design. Index Life: 25,000 cycles minimum.

Index Torque: Switches have lowest practical torque consistent

with crisp detenting and smooth, reliable operation.

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

Index Stops: Adjustable standard, fixed or continuous.

Stop Strength: 10 in. lbs. minimum.

STANDARD PART NUMBER

DIALLYL PHTHALATE INSULATION - ADJUSTABLE STOPS

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

ſ		ACTIVE	POLES/	NO. C)F	SHORTING	NON-	FIG.
l	POLES	POSITIONS	SECTION	SECTIO	DNS		SHORTING	*
	01	02-12	1	1	D2I	D0112S	D2D0112N	DE
	02	02-06	2	1	D2[D0206S	D2D0206N	DL
	02	02-12	1	2	D2I	D0212S	D2D0212N	DE
	03	02-05	3	1	D2I	D0305S	D2D0305N	DO
	03	02-12	1	3	D2I	D0312S	D2D0312N	DE
	04	02-06	2	2	D2I	D0406S	D2D0406N	DL
	06	02-05	3	2	D2I	D0605S	D2D0605N	DO
	06	02-06	2	3	D2I	D0606S	D2D0606N	DI

CERAMIC INSULATION - ADJUSTABLE STOPS

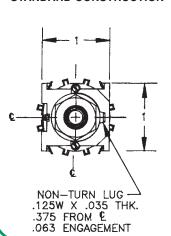
SWITCHES - SOLDER LUG TERMINALS - 30° INDEX - SET @ 2 POS. - 1/8 DIA. SHAFT

	ACTIVE	POLES/	NO. O	F SHORTING	NON-	FIG.
POLES	POSITIONS	SECTION	SECTIO	NS	SHORTING	*
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

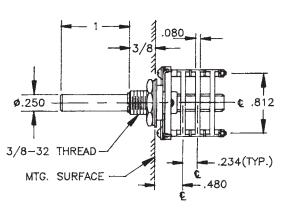
* FIGURES ARE SHOWN ON PAGES 55 AND 56.

DIMENSIONS

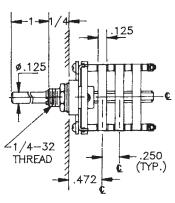
STANDARD CONSTRUCTION



DIALLYL PHTHALATE INSULATION



CERAMIC INSULATION



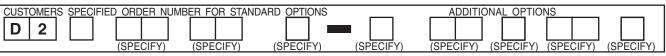


2010 Yonkers Road Raleigh, NC 27604

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

How to Order Additional Options:

2 DIGIT	INSULATION	TOTAL	ACTIVE	CONTACT	TERMINAL	INDEX	STOP	SHAFT/	SHAFT
SERIES	TYPE	POLES	POSITIONS	TYPE	TYPE	ANGLE	TYPE	BUSHING	FLAT
D2	D - DIALLYL	01 - MIN.	12 - MAX @ 30°	S - SHORTING	L - SOLDER LUG	30°	A - ADJ.		
-	(30°,45°,60°)		10 - MAX @ 36°	N - NON	V - VERT. P.C. 30°	36°	F - FIXED		
	G - GLASS		08 - MAX @ 45°	SHORTING	R - (REAR P.C.	45°	C - CONT.		
	(30°,36°,45°,60	°)	06 - MAX @ 60°		NOT CERAMIC)	60°		SEE	SEE
								CHART	CHART
D2	C - CERAMIC	01 - MIN.	11 - MAX @ 30°	S - SHORTING	L - SOLDER LUG	30°	A - ADJ.	"A"	"B"
	(30°,60°)			N - NON		60°	F - FIXED		
	1/8 SHAFT			SHORTING			C - CONT.		
	·		·		·				
CUSTO	MERS SPECIFIE	D ORDER NU	MB <u>ER FOR ST</u> ANI	DARD <u>OPTI</u> ONS		ADDIT	iona <u>l op</u> tioi	NS	

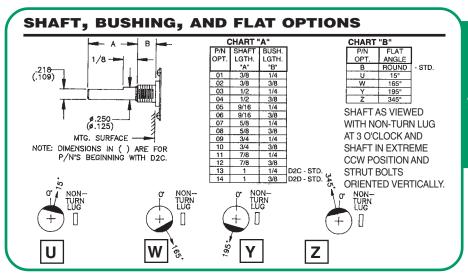


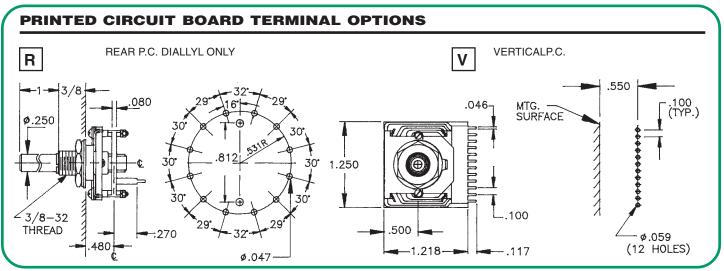
GLASS EPOXY INSULATION 1 3/8 0.062 0.250

(TYP.)

∠3/8–32 THREAD

INSULATION OPTION





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



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

Contact Resistance: Average initial 3.5 milliohms.

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

Diallyl in excess of 900,000 megohms.

Hardware: Mounting nut and lockwasher are shipped assembled.

MECHANICAL

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

Clips and Rotors: Silver alloy standard on ceramic.

Brass with silver plate standard on glass.

Insulation: Glass epoxy, ceramic, or diallyl phthalate.

Index: Single-ball, hill and valley. Index Life: 25,000 cycles minimum.

Index Torque: Switches have lowest practical torque consistent

with crisp detenting and smooth, reliable operation. Index Angles: Positive 30° standard, 60° available. Index Stops: Adjustable standard, fixed or continuous.

Stop Strength: 25 in. lbs. minimum.

STANDARD PART NUMBER

EPOXY GLASS INSULATION - BRASS SILVER PLATE

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

	ACTIVE	POLES/	NO. OF	SHORTING		FIG.		ACTIVE	PO
POLES	POSITIONS	SECTION	SECTIONS	3	SHORTING	*	POLE	ES POSITIONS	SEC
01	02-11	1	1 D3	3G0111S	D3G0111N	DA	01	02-11	1
00	00.44		0 00	000110	D0000441	D.4		00.44	

D3G0605N

	, <u>_</u>			0		
POLES	POSITIONS	SECTION	SECTION	ONS	SHORTING	*
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

D3G0605S

CERAMIC INSULATION - SILVER ALLOY - 2.6 AMPS @ 28 VDC

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

	ACTIVE	POLES/	NO.	OF SHORTIN	G NON-	FIG.
POLES	POSITIONS	SECTION	SECT	IONS	SHORTING	*
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

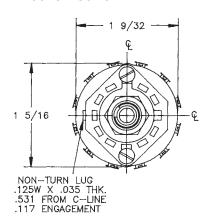
* FIGURES ARE SHOWN ON PAGES 55 AND 56.

DH

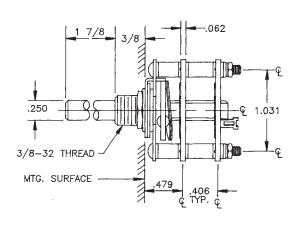
DIMENSIONS

02-05

STANDARD CONSTRUCTION



D3G - GLASS EPOXY CONSTRUCTION



2010 Yonkers Road Raleigh, NC 27604

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



SHAFT/

BUSHING

SEE

CHART

"A"

SHAFT

FLAT

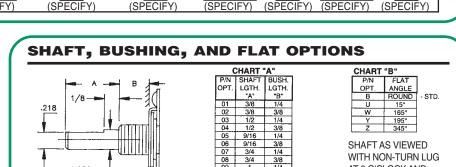
SEE

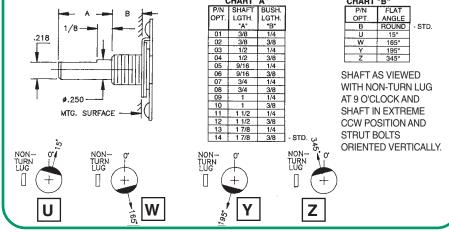
CHART

"B"

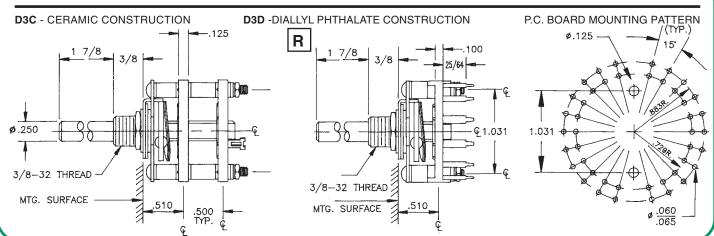
How to Order Additional Options:

						•		
2 DIGIT SERIES	INSULATION TYPE	TOTAL POLES	ACTIVE POSITIONS	CONTACT TYPE	TERMINAL TYPE	INDEX ANGLE	STOP TYPE	Е
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°	A - ADJ. F - FIXED C - CONT.	
CUSTON	MERS SPECIFIE	D ORDER NU	IMB <u>ER FOR ST</u> AN	DARD <u>OPTIO</u> NS		ADDIT	ONAL OPTION	NS





INSULATION AND PRINTED CIRCUIT BOARD TERMINAL OPTIONS



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



3

(SPECIFY)

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

around.

06

06

06

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.

D4G0611S

D4G0605S

D4G0603S

D4G0611N

D4G0605N

D4G0603N

D4G0903N

Hardware: Mounting nut and lockwasher are shipped assembled.

MECHANICAL

Materials and Finishes: All parts utilize non-corrosive materials

as standard.

Clips and Rotors: Brass with silver plate as standard. Insulation: Glass epoxy, ceramic, or diallyl phthalate.

Index: Single-ball, hill and valley. Index Life: 25,000 cycles minimum.

Index Torque: Switches have lowest practical torque consistent

with crisp detenting and smooth, reliable operation. Index Angles: Positive 30° standard, 60° available. Index Stops: Adjustable standard, fixed or continuous.

Stop Strength: 10 in. lbs. minimum.

STANDARD PART NUMBER

2

3

3

GLASS EPOXY INSULATION

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

ı		ACTIVE	POLES/	NO. OF	SHORTING	NON-	FIG.
	POLES	POSITIONS	SECTION	SECTIONS		SHORTING	*
	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

6

3

CERAMIC INSULATION

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

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

* FIGURES ARE SHOWN ON PAGES 55 AND 56.

DIMENSIONS

02-11

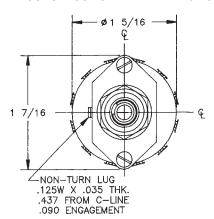
02-05

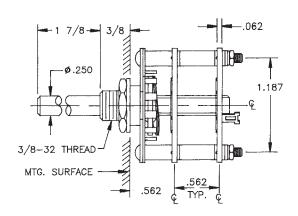
02-03

02-03

STANDARD CONSTRUCTION

D4G - STANDARD GLASS EPOXY CONSTRUCTION







2010 Yonkers Road Raleigh, NC 27604

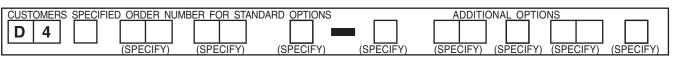
Telephone: (888) ROTARYS or (919) 833-0707

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

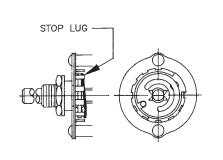
How to Order Additional Options:

2 DIGIT	INSULATION	TOTAL	ACTIVE	CONTACT	TERMINAL	INDEX
SERIES	TYPE	POLES	POSITIONS	TYPE	TYPE	ANGLE
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°

TERMINAL	INDEX	STOP	SHAFT/	SHAFT
TYPE	ANGLE	TYPE	BUSHING	FLAT
L - SOLDER LUG R - REAR P.C.	30° 60°	A - ADJ. F - FIXED C - CONT.	SEE CHART "A"	

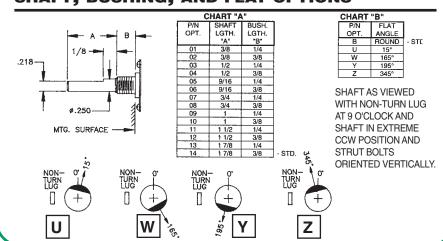


ADJUSTABLE STOP MECHANISM

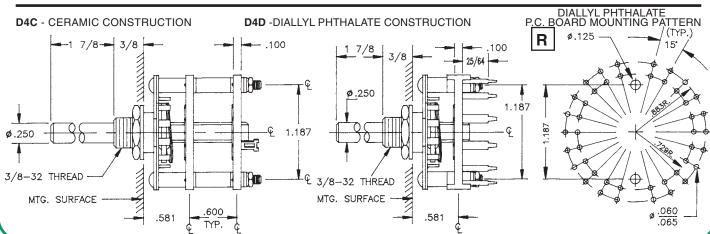


REMOVE STOP LUGS TO ACHIEVE MORE POSITIONS.

SHAFT, BUSHING, AND FLAT OPTIONS



INSULATION AND PRINTED CIRCUIT BOARD TERMINAL OPTIONS



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



D5 - SERIES

SPECIFICATIONS AND ORDERING INFORMATION

1.437" DIAMETER 1.5 AMPS @ 28 VDC

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



SPECIFICATIONS

ELECTRICAL

Current and Voltage Rating: Make and break resistive load

1.5 amps @ 28 VDC; 0.5 amp @ 115 VAC. Current Carrying Capacity: 9 amps.

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

01

01

01

02

02

03

D

Contact Resistance: Average initial 3.5 milliohms. **Insulation Resistance:** In excess of 750,000 megohms.

Hardware: Mounting nut and lockwasher are shipped assembled.

MECHANICAL

Materials and Finishes: All parts utilize non-corrosive materials

as standard.

Clips and Rotors: Brass with silver plate as standard.

Insulation: Glass epoxy.

Index: Formed spring, hill and valley design.

Index Life: 25,000 cycles minimum.

Index Torque: Switches have lowest practical torque consistent

with crisp detenting and smooth, reliable operation.

Index Angles: Positive 30° standard. Index Stops: Fixed or continuous. Stop Strength: 25 in. lbs. minimum.

STANDARD PART NUMBER

1

2

SOLDER LUG TERMINALS SWITCHES - 30° INDEXING - FIXED STOPS

SHORTING **ACTIVE** POLES/ NO OF NON-POLES POSITIONS SECTION SECTIONS SHORTING D5G0106N D D5G0106S

1

D5G0108S

D5G0110S

D5G0111S

D5G0204S

D5G0205S

D5G0303S

PRINTED CIRCUIT BOARD TERMINALS
SWITCHES - 30° INDEXING - FIXED STOPS

NON-	FIG.		ACTIVE	POLES/	NO. OF	SHORTING	NON-	FIG.
SHORTING	*	POLES	POSITIONS	SECTION	SECTIONS		SHORTING	*
D5G0106N	DB	01	06	1	1	D5G0106S - R	D5G0106N - R	DB
D5G0108N	DB	01	80	1	1	D5G0108S - R	D5G0108N - R	DB
D5G0110N	DB	01	10	1	1	D5G0110S - R	D5G0110N - R	DB
D5G0111N	DB	01	11	1	1	D5G0111S - R	D5G0111N - R	DB
D5G0204N	DG	02	04	2	1	D5G0204S - R	D5G0204N - R	DG
D5G0205N	DG	02	05	2	1	D5G0205S - R	D5G0205N - R	DG
D5G0303N	DN	03	03	3	1	D5G0303S - R	D5G0303N - R	DN

* FIGURES ARE SHOWN ON PAGES 55 AND 56.

DIMENSIONS

10

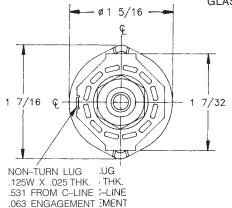
11

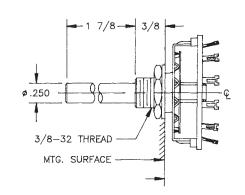
04

05

STANDARD CONSTRUCTION

D₅G **GLASS EPOXY CONSTRUCTION**





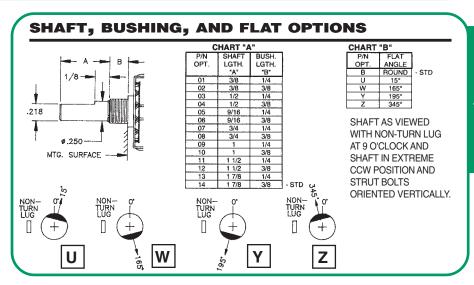
ELECTROSWITCH • ELECTRONIC PRODUCTS UNIT OF ELECTRO SWITCH CORP.

2010 Yonkers Road Raleigh, NC 27604

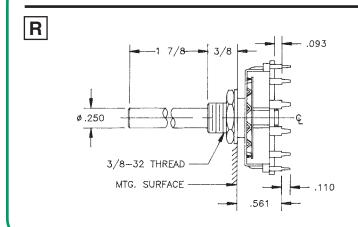
Telephone: (888) ROTARYS or (919) 833-0707 Fax: (800) 909-9171 or (919) 833-8016

How to Order Additional Options:

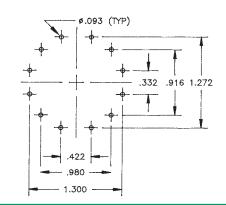
2 DIGIT SERIES	INSULATION TYPE	TOTAL POLES	ACTIVE POSITIONS	CONTACT TYPE	TERMINAL TYPE	INDEX ANGLE	STOP TYPE	SHAFT/ BUSHING	SHAFT FLAT
D5	G - GLASS	01 - MIN.	12 - MAX @ 30°	S - SHORTING N - NON SHORTING	L - SOLDER LUG R - REAR P.C.		F - FIXED C - CONT.	SEE CHART "A"	SEE CHART "B"
	MERS SPECIFIE G	D ORDER NU (SPECIFY)	MBER FOR STAN (SPECIFY)	DARD OPTIONS (SPECIFY)	(SPECIFY)	ADDITI	ONAL OPTIO		(SPECIFY)



PRINTED CIRCUIT BOARD OPTIONS



P.C. BOARD MOUNTING PATTERN



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



1.687" DIAMETER 1.5 AMPS @ 28 VDC

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



SPECIFICATIONS

ELECTRICAL

Current and Voltage Rating: Make and break resistive load

1.5 amps @ 28 VDC; 0.5 amp @ 115 VAC. Current Carrying Capacity: 9 amps.

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

ground.

Contact Resistance: Average initial 3.5 milliohms.

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

Ceramic in excess of 1,000,000 megohms. **Hardware:** Mounting nut and lockwasher are shipped assembled.

MECHANICAL

Materials and Finishes: All parts utilize non-corrosive materials

as standard.

Clips and Rotors: Brass with silver plate as standard.

Insulation: Diallyl phthalate, glass, or ceramic.

Index: Dual-ball, side thrust design. **Index Life:** 25,000 cycles minimum.

Index Torque: Switches have lowest practical torque consistent

with crisp detenting and smooth, reliable operation.

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

Index Stops: Adjustable standard, fixed or continuous.

Stop Strength: 25 in. lbs. minimum.

STANDARD PART NUMBER

DIALLYL PHTHALATE INSULATION

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

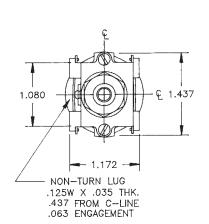
POLES	ACTIVE POSITIONS	POLES/ SECTION	NO. OF SECTIONS	SHORTING	NON- SHORTING	FIG.	POLES	ACTIVE POSITIONS	POLES/ SECTION	NO. OF SECTIONS	SHORTING	NON- SHORTING	FIG.
01	02-12	1	1	D6D0112S	D6D0112N	DD	05	02-03	5	1	D6D0503S	D6D0503N	DR
02	02-12	1	2	D6D0212S	D6D0212N	DD	06	02-12	1	6	D6D0612S	D6D0612N	DD
02	02-06	2	1	D6D0206S	D6D0206N	DL	06	02-06	2	3	D6D0606S	D6D0606N	DL
03	02-12	1	3	D6D0312S	D6D0312N	DD	06	02-05	3	2	D6D0605S	D6D0605N	DO
03	02-05	3	1	D6D0305S	D6D0305N	DO	80	02-06	2	4	D6D0806S	D6D0806N	DL
04	02-12	1	4	D6D0412S	D6D0412N	DD	09	02-05	3	3	D6D0905S	D6D0905N	DO
04	02-06	2	2	D6D0406S	D6D0406N	DL	10	02-03	5	2	D6D1003S	D6D1003N	DR
05	02-12	1	5	D6D0512S	D6D0512N	DD	10	02-06	2	5	D6D1006S	D6D1006N	DL

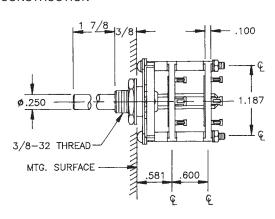
* FIGURES ARE SHOWN ON PAGES 55 AND 56.

DIMENSIONS

STANDARD CONSTRUCTION

D6D - DIALLYL PHTHALATE CONSTRUCTION







2010 Yonkers Road Raleigh, NC 27604

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

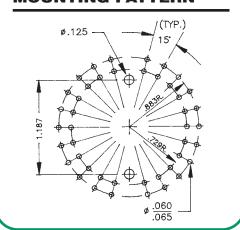
How to Order Additional Options:

2 DIGIT SERIES	INSULATION TYPE	TOTAL POLES	ACTIVE POSITIONS	CONTACT TYPE
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
D6	C - CERAMIC (30°,60°)	01 - MIN.	12 - MAX @ 30° 06 - MAX @ 60°	S - SHORTING N - NON SHORTING

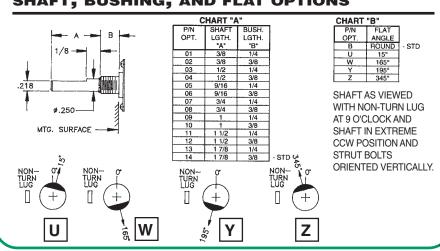
TERMINAL TYPE	INDEX ANGLE	STOP TYPE	SHAFT/ BUSHING	SHAFT FLAT
L - SOLDER LUG R - REAR P.C. (NO 36°)	30° 36° 45° 60°	A - ADJ. (30°,60° ONLY) F - FIXED C - CONT.	SEE	SEE
L - SOLDER LUG	30° 60°	A - ADJ. F - FIXED C - CONT.	CHART "A"	CHART "B"

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

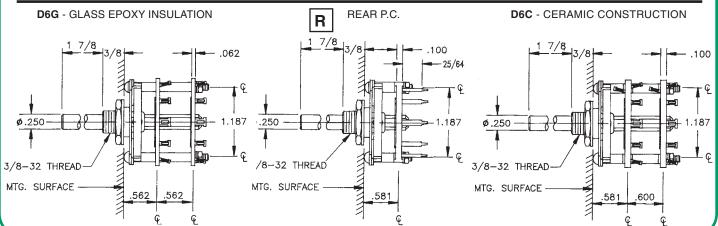
PRINTED BOARD MOUNTING PATTERN



SHAFT, BUSHING, AND FLAT OPTIONS



INSULATION OPTIONS



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



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



SPECIFICATIONS

ELECTRICAL

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

Current Carrying Capacity: 9 amps.

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

ground.

Contact Resistance: Average initial 3 milliohms.

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

Ceramic in excess of 1,000,000 megohms.

Hardware: Mounting nut and lockwasher are shipped assembled.

MECHANICAL

Materials and Finishes: All parts utilize non-corrosive materials

as standard.

Clips and Rotors: Brass with silver plate as standard.

Insulation: Glass epoxy, or ceramic. Index: Dual-ball, hill and valley design. Index Life: 25,000 cycles minimum.

Index Torque: Switches have lowest practical torque consistent

with crisp detenting and smooth, reliable operation.

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

Index Stops: Adjustable standard, fixed or continuous.

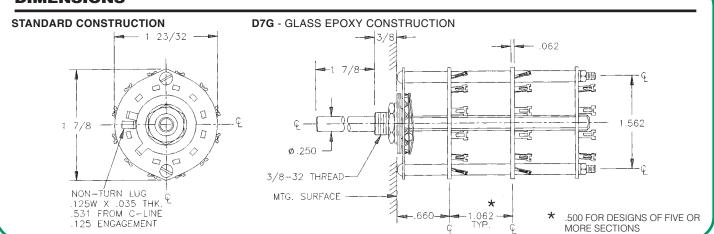
Stop Strength: 25 in. lbs. minimum.

STANDARD PART NUMBER

01.40		=											_
	S EPOXY INS			CHES - 30° INDE				C INSULATIO		SWITCHES - 3			
ADJUS	TABLE STOPS -	SOLDER LUC	G TERMINALS -	STOPS SET @ 2	POS.	ADJUSTABLE STOPS - SOLDER LUG TERMINALS - STOPS SET @ 2 POS.						OS.	
	ACTIVE	POLES/	NO. OF	SHORTING	NON-	FIG.		ACTIVE	POLES/	NO. OF	SHORTING	NON-	FIG.
POLES	POSITIONS	SECTION	SECTIONS		SHORTING	*	POLES	POSITIONS	SECTION	SECTIONS		SHORTING	*
01	02-11	1	1	D7G0111S	D7G0111N	DA	01	02-11	1	1	D7C0111S	D7C0111N	DA
02	02-11	1	2	D7G0211S	D7G0211N	DA	02	02-11	1	2	D7C0211S	D7C0211N	DA
02	02-05	2	1	D7G0205S	D7G0205N	DH	02	02-05	2	1	D7C0205S	D7C0205N	DH
03	02-11	1	3	D7G0311S	D7G0311N	DA	03	02-11	1	3	D7C0311S	D7C0311N	DA
03	02-03	3	1	D7G0303S	D7G0303N	DM	03	02-03	3	1	D7C0303S	D7C0303N	DM
04	02-11	1	4	D7G0411S	D7G0411N	DA	04	02-05	2	2	D7C0405S	D7C0405N	DH
04	02-05	2	2	D7G0405S	D7G0405N	DH	06	02-05	2	3	D7C0605S	D7C0605N	DH
05	02-11	1	5	D7G0511S	D7G0511N	DA	06	02-03	3	2	D7C0603S	D7C0603N	DM
06	02-05	2	3	D7G0605S	D7G0605N	DH				60° INDEXINO	ì		
06	02-03	3	2	D7G0603S	D7G0603N	DM	01	02-06	1	1		D7C0106N-6	0 DK
06	02-11	1	6	D7G0611S	D7G0611N	DA	02	02-06	1	2		D7C0206N-6	0 DK
08	02-05	2	4	D7G0805S	D7G0805N	DH	03	02-06	1	3		D7C0306N-6	0 DK
09	02-03	3	3	D7G0903S	D7G0903N	DM	04	02-06	1	4		D7C0406N-6	0 DK
10	02-05	2	5	D7G1005S	D7G1005N	DH	05	02-06	1	5		D7C0506N-6	0 DK

* FIGURES ARE SHOWN ON PAGES 55 AND 56.

DIMENSIONS





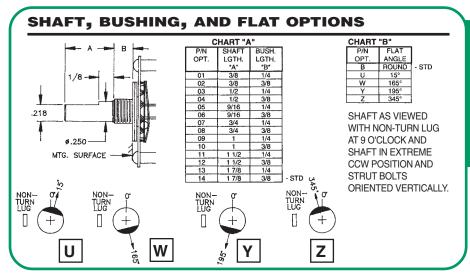
2010 Yonkers Road Raleigh, NC 27604

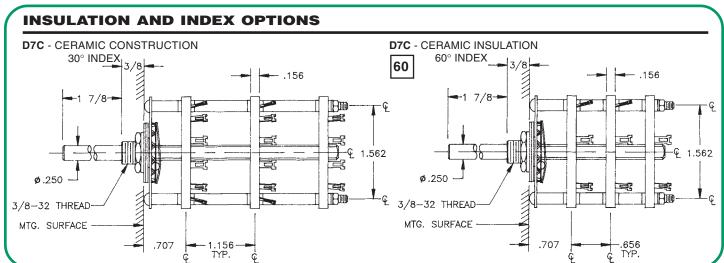
Telephone: (888) ROTARYS or (919) 833-0707 Fax: (800) 909-9171 or (919) 833-8016 (SPECIFY)

(SPECIFY)

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"
CUSTO	MERS SPECIFIE	D ORDER NU	JMBER FOR STAN	DARD OPTIONS	 ADDIT	ONAL OPTIO	NS	





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



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

D

Contact Resistance: Average initial 5 milliohms. **Insulation Resistance:** In excess of 750,000 megohms.

Hardware: Mounting nut and lockwasher are shipped assembled.

MECHANICAL

Materials and Finishes: All parts utilize non-corrosive materials

as standard.

Clips and Rotors: Brass with silver plate as standard.

Insulation: Glass epoxy. Index: Dual-ball, hill and valley. Index Life: 25,000 cycles minimum.

Index Torque: Switches have lowest practical torque consistent

with crisp detenting and smooth, reliable operation.

Index Angles: Positive 20° standard.

Index Stops: Adjustable standard, fixed or continuous.

Stop Strength: 25 in. lbs. minimum.

STANDARD PART NUMBER

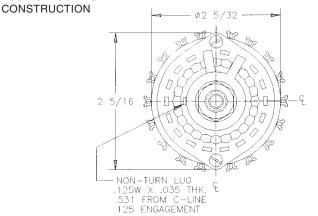
GLASS EPOXY INSULATION SWITCHES - 20° INDEXING ADJUSTABLE STOPS SET @ 2 POS. - SOLDER LUG TERMINALS

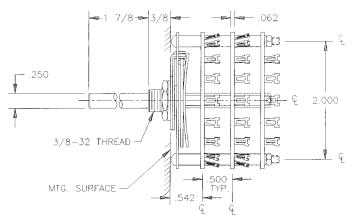
POLES	ACTIVE POSITIONS	POLES/ SECTION	NO. OF SECTIONS	SHORTING	NON- SHORTING	FIG.
01	02-17	1	1	D8G0117S	D8G0117N	DT
02	02-17	1	2	D8G0217S	D8G0217N	DT
03	02-17	1	3	D8G0317S	D8G0317N	DT
04	02-17	1	4	D8G0417S	D8G0417N	DT
05	02-17	1	5	D8G0517S	D8G0517N	DT
06	02-17	1	6	D8G0617S	D8G0617N	DT
07	02-17	1	7	D8G0717S	D8G0717N	DT
80	02-17	1	8	D8G0817S	D8G0817N	DT

* FIGURES ARE SHOWN ON PAGE 57.

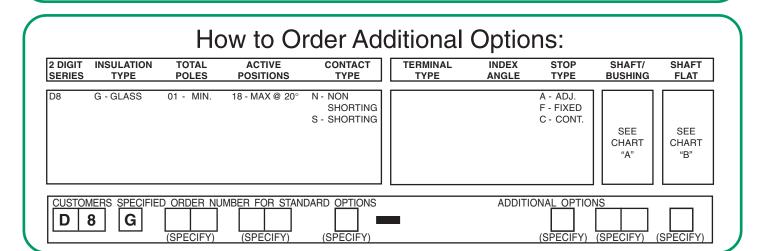
DIMENSIONS

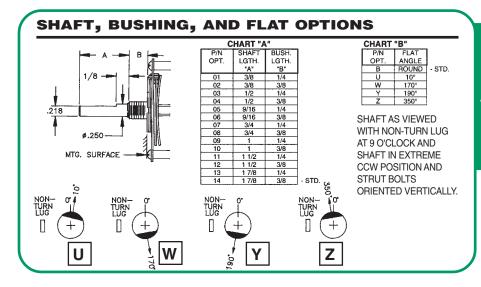












CUSTOM SWITCHES ARE AVAILABLE. CONTACT THE FACTORY WITH YOUR COMPLETE SPECIFICATIONS.



1.5 AMPS @ 28 VDC 2 5/16" DIAMETER

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

D

Contact Resistance: Average initial 5 milliohms. **Insulation Resistance:** In excess of 750,000 megohms.

Hardware: Mounting nut and lockwasher are shipped assembled.

MECHANICAL

Materials and Finishes: All parts utilize non-corrosive materials

as standard.

Clips and Rotors: Brass with silver plate as standard.

Insulation: Glass epoxy.

Index: Dual-ball, hill and valley design. Index Life: 25,000 cycles minimum.

Index Torque: Switches have lowest practical torque consistent

with crisp detenting and smooth, reliable operation.

Index Angles: Positive 15° standard.

Index Stops: Adjustable standard, fixed or continuous.

Stop Strength: 25 in. lbs. minimum.

STANDARD PART NUMBER

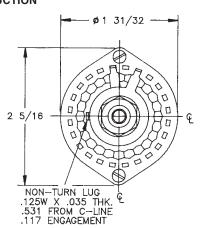
GLASS EPOXY INSULATION SWITCHES - 15° INDEXING ADJUSTABLE STOPS - SOLDER LUG TERMINALS - STOPS SET @ 2 POS.

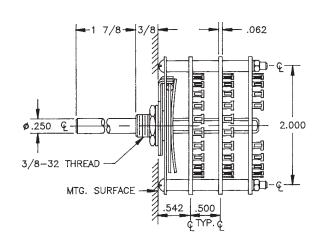
POLES	ACTIVE POSITIONS	POLES/ SECTION	NO. OF SECTIONS	SHORTING	NON- SHORTING	FIG. ★
01	02-23	1	1	D9G0123S	D9G0123N	DU
02	02-23	1	2	D9G0223S	D9G0223N	DU
03	02-23	1	3	D9G0323S	D9G0323N	DU
04	02-23	1	4	D9G0423S	D9G0423N	DU
05	02-23	1	5	D9G0523S	D9G0523N	DU
06	02-23	1	6	D9G0623S	D9G0623N	DU
07	02-23	1	7	D9G0723S	D9G0723N	DU
80	02-23	1	8	D9G0823S	D9G0823N	DU

* FIGURES ARE SHOWN ON PAGE 57.

DIMENSIONS

STANDARD CONSTRUCTION **D9G** - GLASS EPOXY CONSTRUCTION







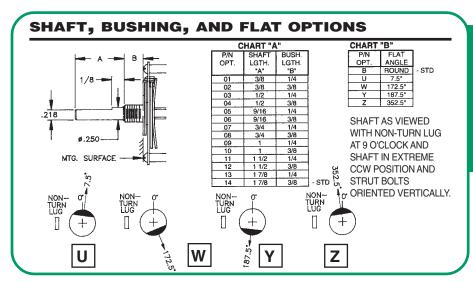
(SPECIFY)

How to Order Additional Options:

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

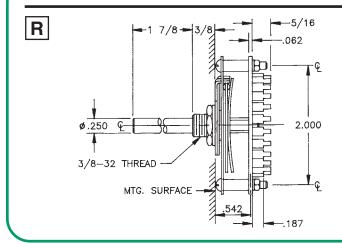
(SPECIFY)

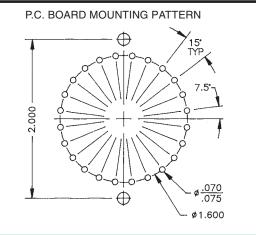
(SPECIFY)



PRINTED CIRCUIT BOARD OPTIONS

(SPECIFY)





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



SELECTOR GUIDE OPEN FRAME ROTARY ELECTRONIC SWITCHES













	CHARACTERISTICS	SERIES E1	SERIES E2	SERIES E3	SERIES E4	SERIES E5	
	Page Number	37	38	39	40,41	42,43	
	Construction	OPEN	OPEN	OPEN	OPEN	OPEN	
	Diameter	1.50"	N/A	1.500"	2.812"	2.5 x 1.625"	
	Positions	2 - 3	2 - 5	2 - 3	2 - 17	2 - 24	
Ε	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	
Е	Current Carrying Capacity	9A	9A	9A	17A	1A	
С	Dielectric Strength	1,000 VAC	1,000 VAC	1,500 VAC	3,000 VAC	750 VAC	
Т	Insulation Resistance	750,000	750,000	750,000	1,000,000	750,000	
R	(megohms)						
- 1	Contact Resistance	3.5	3.5	3.5	7	N/A	
С	(milliohms)						
Α							
L							
М	Insulation - Glass Epoxy	STANDARD	STANDARD	STANDARD	NO	STANDARD	
A	Ceramic	NO	NO	YES	STANDARD	NO	
T	Cordinio	110	110	120	O I / II I D	NO	
E							
R							
.: I	Contacts - Silver Alloy ★	YES	YES	YES	STANDARD	YES	
A	Brass/Silver Plate	STANDARD	STANDARD	STANDARD	NO	STANDARD	
L	Diass/Silver i late	STANDALID	STANDALID	STANDALID	NO	STANDALID	
M	Stop Strength	10 in. lb.	25 in. lb.	25 in. lb.	25 in. lb.	25 in. lb.	
Е	Mechanical Life	10,000 cycles	25,000 cycles	25,000 cycles	25,000 cycles	25,000 cycles	
С	Detenting Angles: 15°	_	15	_	-	15	
Н	20 °	_	_	_	20	_	
Α	22.5 °	_	_	_	-	-	
N	30 °	30	30	30	-	_	
I	36 °	_	_	_	-	_	
С	45°	_	_	_	_	_	
Α	60°	_	_	_	_	_	
L	90°	_	_	_	_	_	
0	Quick Connect	NO	NO	NO	NO	NO	
Р	Rear PC Mount	YES	YES	YES	NO	NO	
Т	Vertical PC Mount ★	NO	NO	NO	NO	YES	
ı	Front PC Mount ★	YES	NO	NO	NO	NO	
0	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



2010 Yonkers Road

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

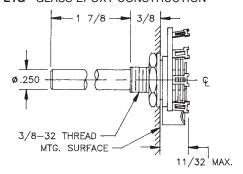
GLASS EPOXY INSULATION

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

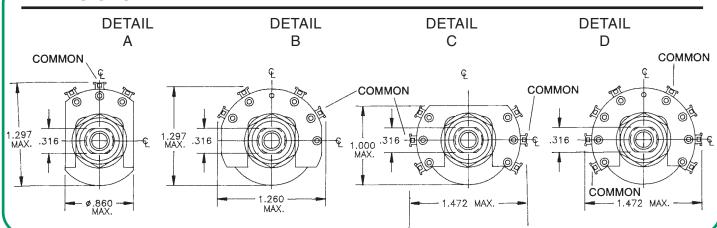
	ACTIVE	POLES/	NO. OF	SHORTING	NON-	DETAIL
POLES	POSITIONS	SECTION	SECTIONS		SHORTING	
01	02	1	1	E1G0102S	E1G0102N	Α
01	03	1	1	E1G0103S	E1G0103N	В
02	02	2	1	E1G0202S	E1G0202N	. С
02	03	2	1	E1G0203S	E1G0203N	D

DIMENSIONS

STANDARD CONSTRUCTION E1G - GLASS EPOXY CONSTRUCTION



DIMENSIONS





2010 Yonkers Road Raleigh, NC 27604

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

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

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

E

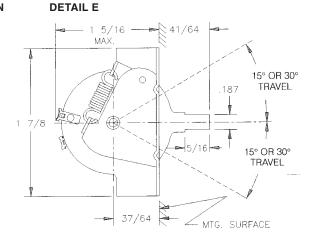
SWITCHES - 30° INDEXING - FIXED STOPS - SOLDER LUG TERMINALS

	ACTIVE	POLES/	NO. OF	SHORTING	NON-		
POLES	POSITIONS	SECTION	SECTIONS		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.	Е
02	03	2	1	E2G0203S	E2G0203N	POSITIVE INDEX BOTH SIDES OF CENTER.	Е
02	03	2	1	E2G0203S-2	E2G0203N-2	SPRING RETURN BOTH SIDES TO CENTER.	E
04	02	4	1	E2G0402S-3	E2G0402N-3	SPRING RETURN TO CENTER.	E
04	02	4	1	E2G0402S	E2G0402N	POSITIVE INDEX.	E

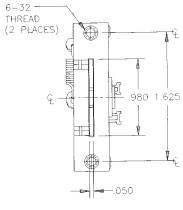
DIMENSIONS

STANDARD CONSTRUCTION

MAX



DETAIL F





2010 Yonkers Road

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

Raleigh, NC 27604

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

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

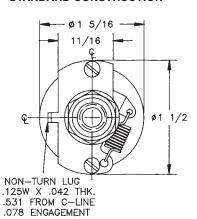
SPRING RETURN

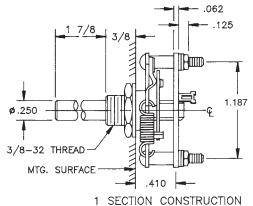
SWITCHES - 30° INDEXING - FIXED STOPS - SOLDER LUG TERMINALS

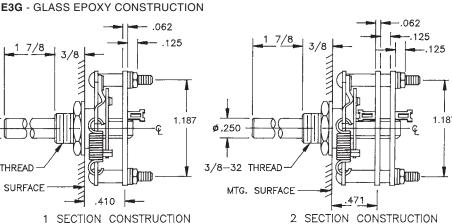
	ACTIVE	POLES/	NO. OF	SHORTING	NON-	
POLES	POSITIONS	SECTION	SECTIONS		SHORTING	DESCRIPTION
04	02	4	1	E3G0402S-1	E3G0402N-1	SPRING RETURN FROM CLOCKWISE.
06	03	3	2	E3G0603S-2	E3G0603N-2	SPRING RETURN BOTH SIDES TO CENTER.
06	03	3	2	E3G0603S-3	E3G0603N-3	SPRING RETURN CLOCKWISE TO CENTER, POSITIVE INDEX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

DIMENSIONS

STANDARD CONSTRUCTION







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

2010 Yonkers Road Raleigh, NC 27604

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

Contact Resistance: Average initial 7.0 milliohms. **Insulation Resistance:** In excess of 1,000,000 megohms.

Hardware: Mounting nut and lockwasher are shipped assembled.

MECHANICAL

Materials and Finishes: All parts utilize non-corrosive materials

as standard.

Contacts and Collector Rings: Coin silver as standard.

Insulation: Ceramic.

Index: Dual-ball, hill and valley design. Index Life: 25,000 cycles minimum.

Index Torque: Switches have lowest practical torque consistent

with crisp detenting and smooth, reliable operation.

Index Angles: Positive 20° standard.

Index Stops: Adjustable stops standard, fixed or continuous.

Stop Strength: 25 in. lbs. minimum.

STANDARD PART NUMBER

20° INDEXING

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

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

* FIGURES ARE SHOWN ON PAGE 57.

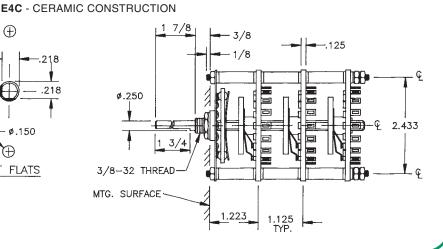
DIMENSIONS

E

STANDARD CONSTRUCTION

TIE ROD EXTENSION MAY BE-USED AS LOCATING LUG

2.433 .218 ø.150 SHAFT FLATS

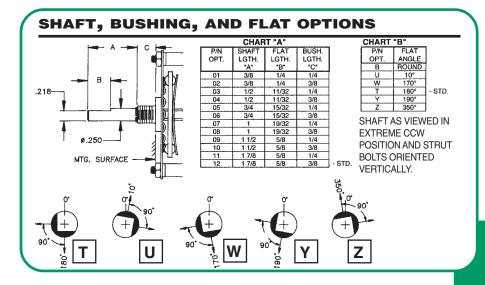


2010 Yonkers Road Raleigh, NC 27604



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

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



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

SPECIFICATIONS AND ORDERING INFORMATION

0.55 AMP @ 28 VDC

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

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

	ACTIVE	POLES/	NO. OF	SHORTING	NON-	FIG.
POLES	POSITIONS	DECK	DECKS		SHORTING	*
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

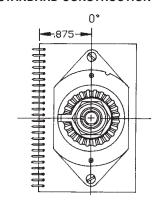
	ACTIVE	POLES/	NO. OF	SHORTING	NON-	FIG.
POLES	POSITIONS	DECK	DECKS		SHORTING	*
01	23	1	1	E5G0123S-C	E5G0123N-C	ED
02	23	1	2	E5G0223S-C	E5G0223N-C	ED
03	23	1	3	E5G0323S-C	E5G0323N-C	ED
04	23	1	4	E5G0423S-C	E5G0423N-C	ED

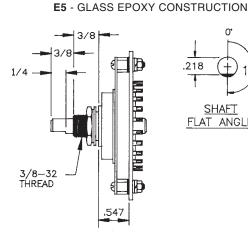
* FIGURES ARE SHOWN ON PAGE 57.

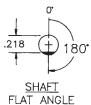
DIMENSIONS

E

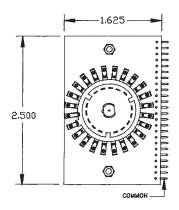
STANDARD CONSTRUCTION







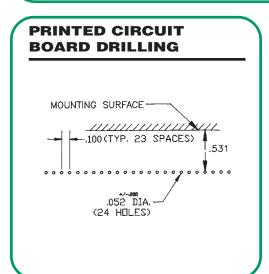


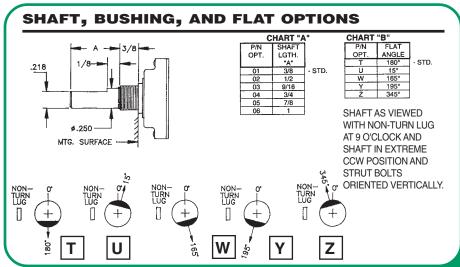




2010 Yonkers Road

Raleigh, NC 27604





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

2010 Yonkers Road Raleigh, NC 27604

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

SELECTOR GUIDE ROTARY ELECTRONIC SWITCHES

ORIGINALLY DESIGNED AS MIL. SPEC.











	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
Е	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
Е	Current Carrying Capacity	10A	12A	10A	10A
С	Dielectric Strength	1,000 VAC	1,500 VAC	1,500 VAC	1,500 VAC
т	Insulation Resistance	10,000	100,000	1,000,000	1,000,000
R	(megohms)	,	,	, ,	, ,
l i	Contact Resistance	5	5	10	10
С	(milliohms)		-		
A	()				
L					
M	Insulation - Glass Epoxy	NO	NO	STANDARD	STANDARD
Α	Diallyl Phthalate	STANDARD	STANDARD	NO	NO
Т					
Е					
R					
I	Contacts - Silver Alloy ★	STANDARD	STANDARD	STANDARD	STANDARD
Α	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.
Е	Mechanical Life	25,000 cycles	25,000 cycles	25,000 cycles	25,000 cycles
С	Detenting Angles: 7.5°	-	_	_	7.5
Н	11.25°	_	_	11.25	_
Α	15°	-	_	15	15
N	22.5°	_	_	22.5	_
- 1	30 °	30	30	30	_
С	36 °	_	36	_	_
Α	45°	_	45	_	_
L	60 °	_	60	_	_
	90 °	_	90	_	_
0	Quick Connect	NO	NO	NO	NO
Р	Rear PC Mount	NO	NO	YES	NO
Т	Vertical PC Mount ★	NO	NO	NO	NO
1	Front PC Mount ★	NO	NO	NO	NO
0	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



2010 Yonkers Road Raleigh, NC 27604

M

OPEN FRAME WORKSHEET

SERIES PREFERRED **ELECTRICAL REQUIREMENTS:** SHORTING OR NON-SHORTING CURRENT CARRYING CAPACITY INTERRUPTING CURRENT MAXIMUM WORKING VOLTAGE ADDITIONAL REQUIREMENTS: MAX NON-TURN LUG MTG. SURFACE -YES NOTES: SEE APPROPRIATE CATALOG PAGES FOR STANDARD DIMENSIONS AND OPTIONS. MECHANICAL REQUIREMENTS: NO. OF POSITIONS NO. OF POLES TERMINAL TYPE INDEX ANGLE Estimated usage ADDITIONAL REQUIREMENTS: Sender Information ELECTROSWITCH ELECTRONIC PRODUCTS Date: _____ Time: ____ UNIT OF ELECTRO SWITCH CORP. FAX Numbers: Name: _____ 2010 YONKERS ROAD, RALEIGH, NC 27604 (919) 833-8016Company: (800) 909-9171 Address: FOR ASSISTANCE PLEASE CALL: FAX TRANSMISSION

(919) 833-0707

(888) ROTARYS

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

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

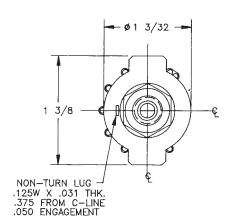
2 WAFER/DECK CONSTRUCTION SWITCHES - 30° INDEXING ADJUSTABLE STOPS SET @ 12 POS SOLDER LUG TERMINALS							R/DECK CON BLE STOPS SE			SWITCHES - 30° I TERMINALS	NDEXING		
POLES	ACTIVE POSITIONS	POLES/ DECK	NO. OF DECKS	SHORTING	NON- SHORTING	FIG. ★	POLES	ACTIVE POSITIONS	POLES/ DECK	NO. OF DECKS	SHORTING	NON- SHORTING	FIG.
01	02-12	1	1	M4D0112S	M4D0112N	MB	01	02-06	1	1	M4D01 06S	M4D01 06N	MA
02	02-12	1	2	M4D0212S	M4D0212N	MB	02	02-06	1	2	M4D0206S	M4D0206N	MA
03	02-12	1	3	M4D0312S	M4D0212N	MB	03	02-06	1	3	M4D0306S	M4D0306N	MA
04	02-12	1	4	M4D0412S	M4D0412N	MB	04	02-06	1	4	M4D0406S	M4D0406N	MA

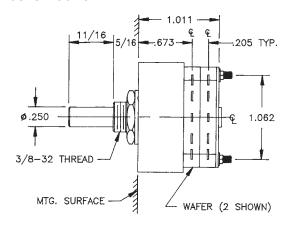
* FIGURES ARE SHOWN ON PAGE 57.

DIMENSIONS

STANDARD CONSTRUCTION

M4D - DIALLYL PHTHALATE CONSTRUCTION





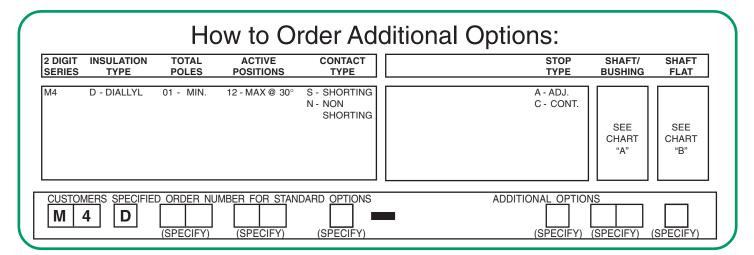


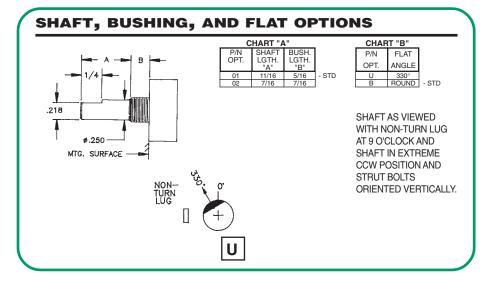
2010 Yonkers Road Raleigh, NC 27604

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

M

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





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



M5 - SERIES

SPECIFICATIONS AND ORDERING INFORMATION

1" DIAMETER 2.0 AMPS @ 28 VDC

The M5 Series was orignally 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

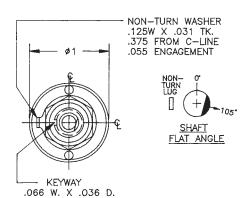
SWITCHES - 30° INDEXING - STOPS SET @ 2 POS. - SOLDER LUG TERMINALS

POLES	ACTIVE POSITIONS	POLES/ DECK	NO. OF DECKS	SHORTING	NON- SHORTING	FIG.
. 0220	1 001110110	DEGIT	BEORG		OHOHHHO	
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

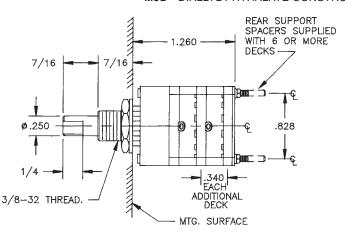
* FIGURES ARE SHOWN ON PAGE 55.

DIMENSIONS

STANDARD CONSTRUCTION



M5D - DIALLYL PHTHALATE CONSTRUCTION



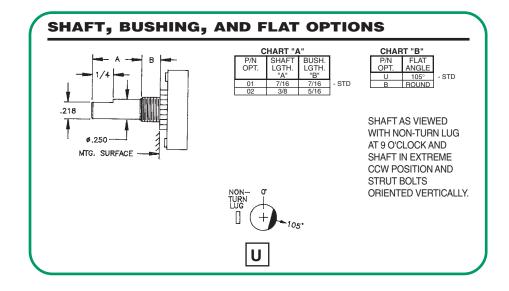


2010 Yonkers Road Raleigh, NC 27604

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

M

2 DIGIT SERIES	INSULATION TYPE	TOTAL POLES	ACTIVE POSITIONS	CONTACT TYPE		NDEX NGLE	STOP TYPE	SHAFT/ BUSHING	SHAFT FLAT
M5	D - DIALLYL	01 - MIN.	12 - MAX @ 30° 10 - MAX @ 36° 08 - MAX @ 45° 06 - MAX @ 60° 04 - MAX @ 90°	S - SHORTING N - NON SHORTING		30° 36° 45° *60° *90°	F - FIXED A - ADJ. (30° AND 36° ONLY) C - CONT.	SEE CHART "A"	SEE CHART "B"
					*NOT AVAILABLE IN SHO	ORTING			



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



M6 - SERIES

SPECIFICATIONS AND ORDERING INFORMATION

1 3/4" SQUARE 0.5 AMP @ 28 VDC

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



SPECIFICATIONS

ELECTRICAL

Current and Voltage Rating: Make and break resistive load

0.5 amp @ 28 VDC; 0.125 amp @ 115 VAC. Current Carrying Capacity: 10 amps.

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

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

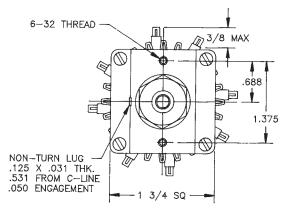
POLES	ACTIVE POSITIONS	POLES/ SECTION	NO. OF SECTIONS	SHORTING	NON- SHORTING	FIG.
01	02-12	1	1	M6G0112S	M6G0112N	MC
02	02-12	1	2	M6G0212S	M6G0212N	MC
02	02-06	2	1	M6G0206S	M6G0206N	MD
03	02-12	1	3	M6G0312S	M6G0312N	MC
04	02-12	1	4	M6G0412S	M6G0412N	MC
04	02-06	2	2	M6G0406S	M6G0406N	MD
06	02-06	2	3	M6G0606S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

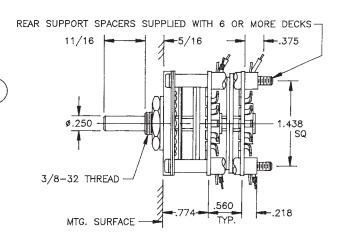
* FIGURES ARE SHOWN ON PAGE 57.

DIMENSIONS

STANDARD CONSTRUCTION

M6G - GLASS EPOXY CONSTRUCTION







2010 Yonkers Road Raleigh, NC 27604

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

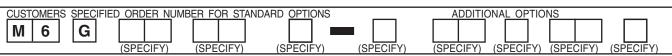
M

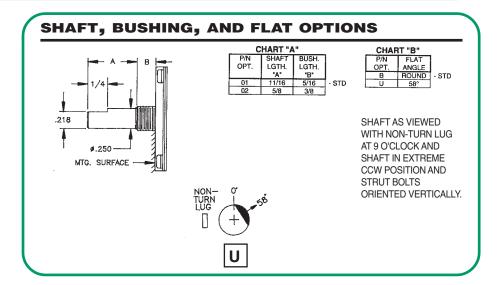
M6 - SERIES

How to Order Additional Options:

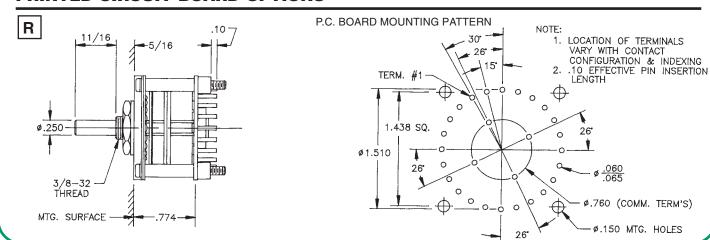
2 DIGIT SERIES	INSULATION TYPE	TOTAL POLES	ACTIVE POSITIONS	CONTACT TYPE
M6	G - GLASS	01 - MIN.	12 - MAX @ 30° 16 - MAX @22.5°	N - NON- SHORTING S - SHORTING
M6	G - GLASS	01 - MIN.	32 - MAX @11.5° 24 - MAX @ 15°	S - SHORTING

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





PRINTED CIRCUIT BOARD OPTIONS



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



2010 Yonkers Road Raleigh, NC 27604

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

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					GLASS INSUI BLE STOPS SE		-	WITCHES - 7.5° I FERMINALS	NDEXING				
POLES	ACTIVE POSITIONS	POLES/ SECTION	NO. OF SECTIONS	SHORTING	NON- SHORTING	FIG.	POLES	ACTIVE POSITIONS	POLES/ SECTION	NO. OF SECTIONS	SHORTING	NON- SHORTING	FIG.
01	02-24	1	1		M7G0124N	ME	01	02 - 48	1	1	M7G0148S-7	5	MI
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							

* FIGURES ARE SHOWN ON PAGE 57.

MG

M7G0906N

M7G1206N

DIMENSIONS

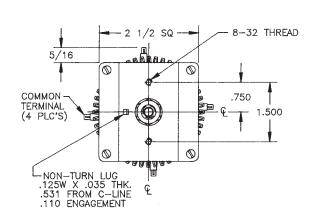
02-06

09

12

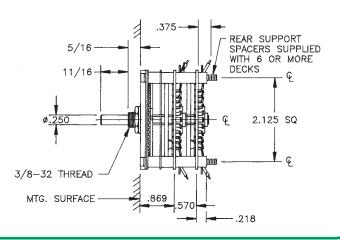
STANDARD CONSTRUCTION

M7G - GLASS EPOXY CONSTRUCTION



3

3

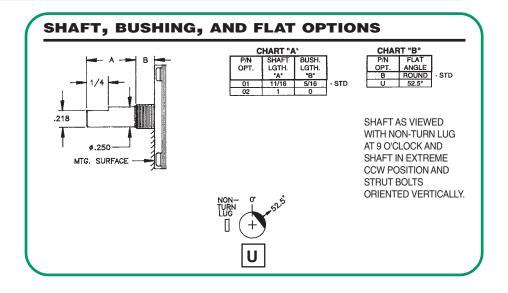




2010 Yonkers Road Raleigh, NC 27604

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

How to Order Additional Options: TOTAL ACTIVE CONTACT TERMINAL INDEX STOP 2 DIGIT INSULATION SHAFT/ SHAFT SERIES **TYPE POLES POSITIONS** TYPE TYPE ANGLE TYPE **BUSHING FLAT** 48 - MAX @ 7.5° S - SHORTING M7 G - GLASS 01 - MIN. 7.5° A - ADJ. C - CONT. SEE SEE CHART CHART G - GLASS 01 - MIN. 24 - MAX @ 15° N - NON-M7 "A" "B" SHORTING SPECIFIED ORDER NUMBER FOR STANDARD OPTIONS CUSTOMERS ADDITIONAL OPTIONS M 7 G (SPECIFY) (SPECIFY) (SPECIFY) (SPECIFY) (SPECIFY) (SPECIFY)



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



SECTION ASSEMBLIES AVAILABLE SEPARATE

INDEX ASSEMBLIES AVAILABLE SEPARATE

(
POLES	NO. OF POSITIONS	POLES/ SECTION		SHORTING	NON- SHORTING	FIG.
				PART NUMBERS	PART NUMBERS	
D2D - SE	ERIES	DIALLYL PI	HTHALATE I	NSULATION		
0.4	00.40		200	D0D 50	D0D 51	D.E.
01 02	02-12 02-06	1 2	30° 30°	D2D-50 D2D-52	D2D-51 D2D-53	DE DL
03	2-05	3	30°	D2D-54	D2D-55	DO
05	2-03	5	30°	D2D-56	D2D-57	DR
D2C - SE	ERIES	CERAMIC	INSULATION	I		
01	2-11	1	30°	D2C-20	D2C-21	DB
02	2-05	2	30°	D2C-22	D2C-23	DG
03	2-03	3 4	30°	D2C-24	D2C-25	DN
04	02	•	30°	D2C-26	D2C-27	DQ
<u>D3C - SE</u>	ERIES	CERAMIC	INSULATION	l		
01	2-11	1	30°	D3C-80	D3C-81	DA
02	2-05	2	30°	D3C-82	D3C-83	DH
D4C - SE	ERIES	CERAMIC	INSULATION	1		
01	02-12	1	30°	D4C-0	D4C-1	DD
02	02-06	2	30°	D4C-2	D4C-3	DL
03	02-05	3 5	30°	D4C-4	D4C-5	DO
05 06	02-03 02	5 6	30°	D4C-6 D4C-8	D4C-7 D4C-9	DR DS
01	02-06	1	60°	D4C-20	D4C-17	DJ
D4G - SI	ERIES	GLASS EP	OXY INSULA	ATION		
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
<u>D7C - SE</u>	ERIES	CERAMIC	INSULATION	l		
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 - SI	ERIES	GLASS EP	OXY INSULA	ATION		
01	2-11	1	30°	D7G-BD	D7G-JD	DB
02	2-05	2	30°	D7G-SKD	D7G-KD	DH
<u>E4C - SE</u>	ERIES	CERAMIC	INSULATION	1		
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 ANGLE	NO. OF POSITIONS	NO. OF SECTIONS	PART NUMBERS	PAGE NUMBER
D2 - SER	IES			
30° 30°	02-12 02-12	1-2 3-5	D2-512 D2-513	20, 21 20, 21
D3 - SER	IES			
30°	02-11	1-4	D3-600	22, 23
<u>D4 - SER</u>	IES			
30° 30° 30° 60° 60°	02-12 02-12 02-12 02-06 02-06	1-3 4-6 7-9 1-3 4-6	D4-300 D4-301 D4-302 D4-304 D4-305	24, 25 24, 25 24, 25 24, 25 24, 25 24, 25
<u>D7 - SER</u>	IES			
30° 30° 30° 60° 60°	02-11 02-11 02-11 02-06 02-06	1-3 4-5 6-10 1-2 3-8	D7-270 D7-271 D7-272 D7-273 D7-275	30, 31 30, 31 30, 31 30, 31 30, 31
<u>E4 - SER</u>	IES			
20°	02-17	1-6	E4-7	40, 41



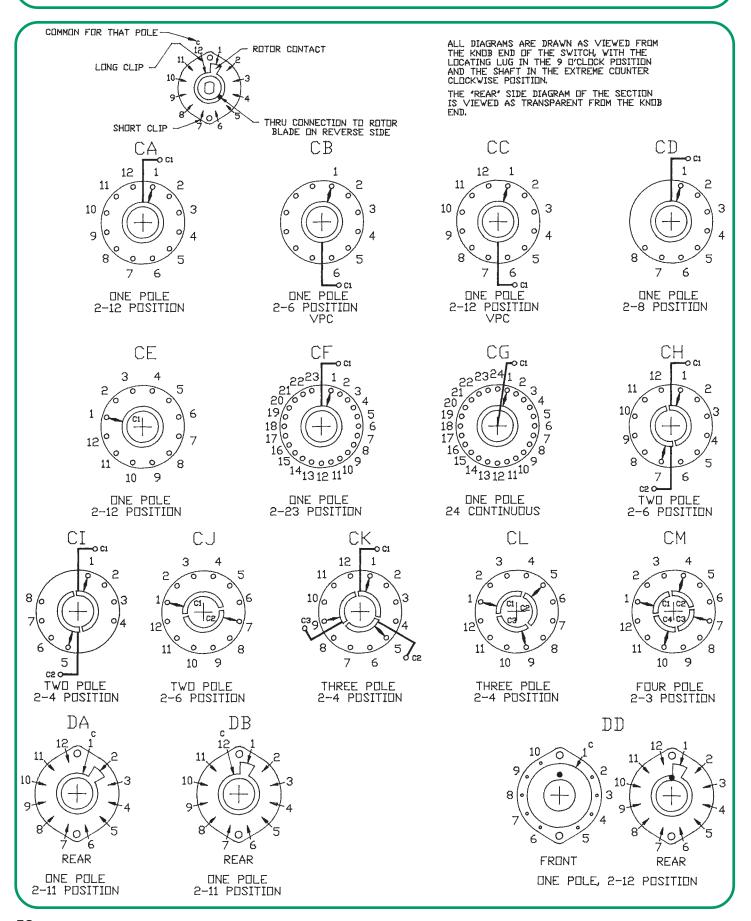
KNOBS AND DIAL PLATES

KNOBS						4
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				8		
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.		

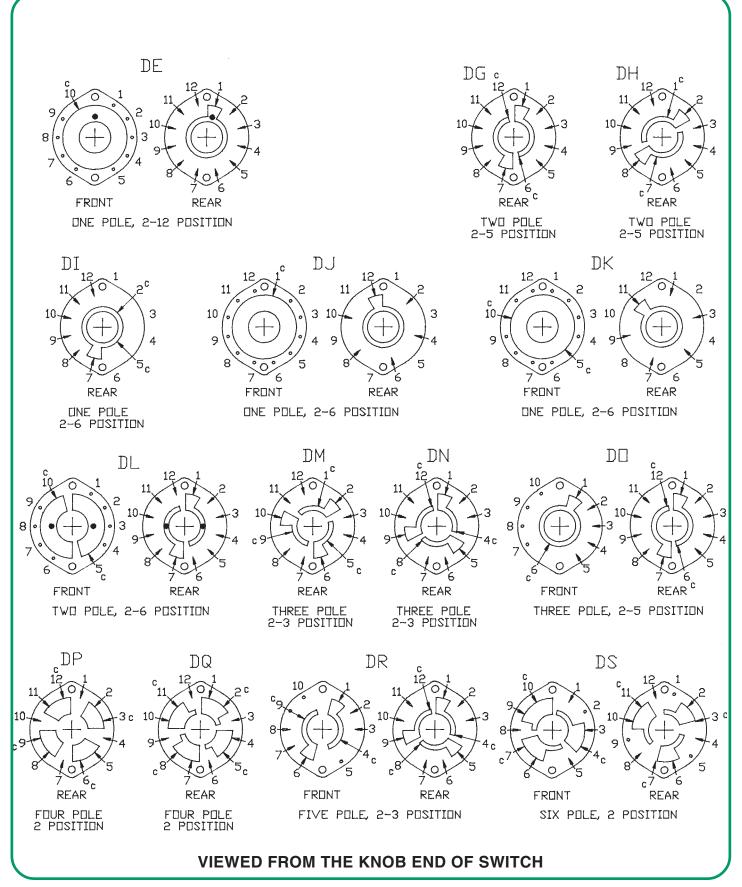
DIAL PLATES	5 16 17 18 5 19 4 20 4 3 2 1 23 22 21			5 12 14 15 15 17 18	\odot	3 8 2 9	3 9 2 10	4 9 10 2 11 12 11 11 12 11 11 11 11 11 11 11 1
Part Number	P173	P230	P232	P231*	P115	P117	P118	P112
Switch Angle	15°	20°	20°	20°	30°	30°	30°	30°
Numbering Description	1-23	1-5	1-8	1-17	1-5	1-10	1-11	1-12
Plate Diameter	1.87	2.75	2.75	2.75	1.87	1.87	1.87	1.87

^{*} DISCONTINUED

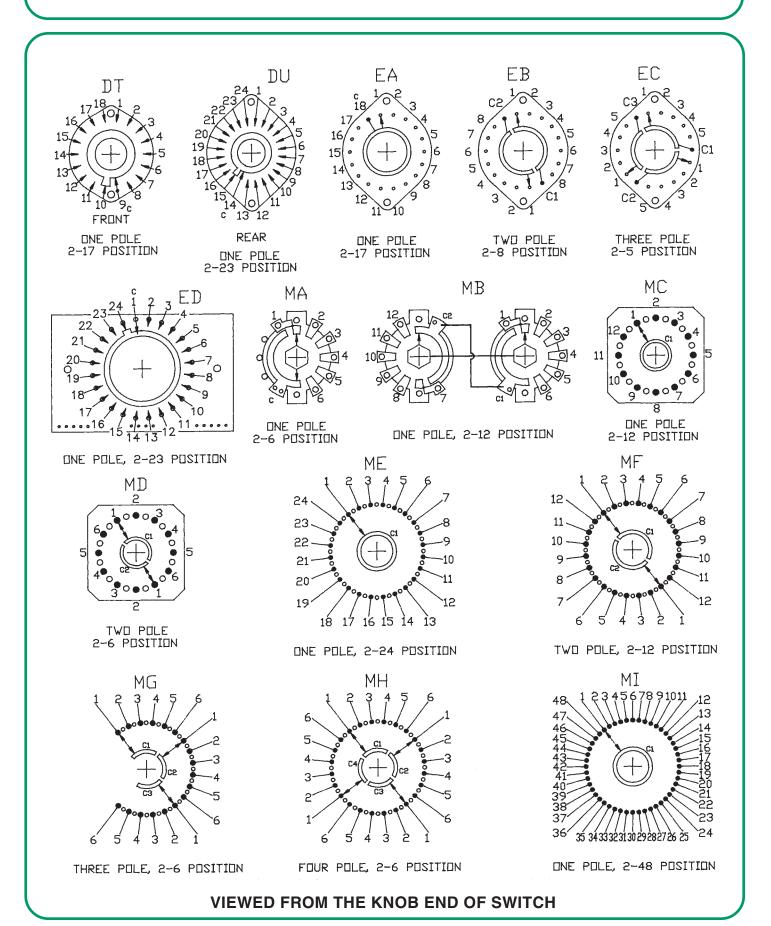
FIGURES/CIRCUIT DIAGRAMS



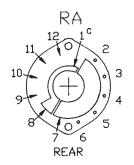
FIGURES/CIRCUIT DIAGRAMS



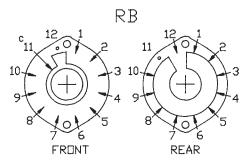
FIGURES/CIRCUIT DIAGRAMS



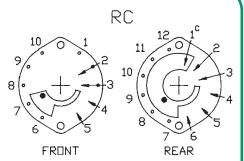
REFERENCE FIGURES/CIRCUIT DIAGRAMS



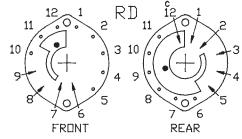
ONE POLE, 2-5 POSITION.
UNUSED CLIPS ARE PROGRESSIVELY
SHORTED BY SEPARATE CONTACT
WITH CW ROTATION.



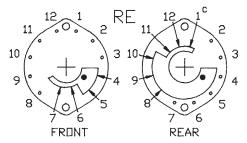
TWO POLE, 2-11 POSITION ALL UNUSED CLIPS CONNECTED AND SHORTED OUT.



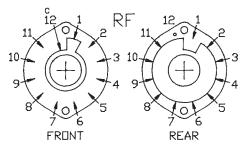
ONE POLE, 2-10 POSITION, NINE ACTIVE CLIPS, ALL OPEN IN FULL CCW POSITION AND PROGRESSIVELY PICKED UP AND SHORTED TO COMMON CONTACT WITH CW ROTATION.



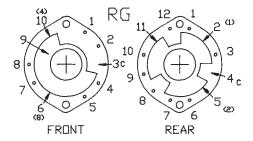
ONE POLE, 2-10 POSITION. NINE ACTIVE CLIPS, ALL OPEN IN FULL CCW POSITION AND PROGRESSIVELY PICKED UP AND SHORTED TO COMMON CONTACT WITH CW ROTATION.



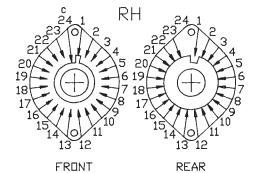
ONE POLE, 2-10 POSITION. NINE ACTIVE CLIPS, ALL SHORTED TO COMMON CONTACT IN FULL CCW POSITION AND PROGRESSIVELY OPENED AND DROPPED WITH CW ROTATION.



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



BCD OR COMPLEMENT



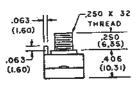
TWO POLE, 2-23 POSITION. ALL UNUSED CLIPS CONNECTED AND SHORTED OUT.

VIEWED FROM THE KNOB END OF SWITCH

PANEL CUTOUTS

C1 SERIES

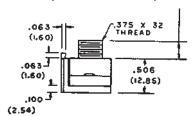
STANDARD - TW0 PIECE (FOR .125" DIA. SHAFT)



,110 DIA-

(\$ 2.79) - () (+

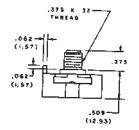
OPTIONAL - ONE PIECE (FOR .250" DIA. SHAFT)



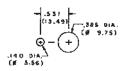
(\$ 3.58) (\$ 9.93) (\$ 3.58) (\$ 9.93) (\$ 9.53 ± 0.08)

C4 SERIES

STANDARD - ONE PIECE

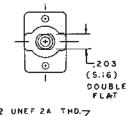


ONE PIECE DIE CAST



C2/C3 SERIES

STANDARD - 1/4 - 32 THD.

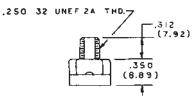


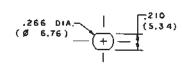
-. 266 DIA -

(ø 6.76)

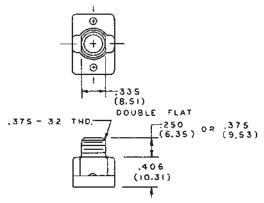
250 1.003

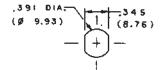
(6.35 ± 0.08)





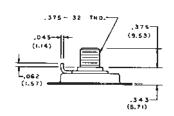
OPTIONAL - 3/8 - 32 THD.



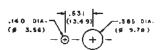


C7 AND E5 SERIES

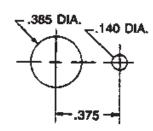
STANDARD



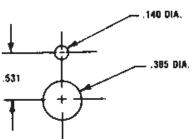
BRASS BUSHING/STEEL HSG.



M4 SERIES



M6 AND M7 SERIES



OPERATING TEMPERATURE RANGE

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

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

ADDITIONAL PRODUCTS & MANUFACTURERS

Toggles:	NKK E Series M Series M2T Series WT Series	Electroswitch A Series A Series A Series WT Series	Encoders:	Grayhill 62 Series 61A, B, C 61S, K, R 63K, R 25 Series	Electroswitch OE2 Series OE2 Series 900 Series 900 Series MMP/REL
Rockers:	M. Series M2T Series WR Series	B Series WR Series WR Series	Rotaries:	25L Series 42, 43 44, 45, 54	700 Series M5/C4 M5/C4
Pushbuttons:	EB Series FB Series Carling	PS Series SA1 Series Electroswitch	Encoders:	Clarostat 510 Series	Electroswitch 700 Series
Toggles:	2M1 Series 2MS Series	A Series WT Series		600	900 Series
Rockers:	1M1 Series 1MS Series	B Series WR Series	Indicator Lights:	<u>Dialight</u> 252-9951- 270-1930-	Electroswitch LHC82 MS25010A
Pushbuttons:	3MN Series 3MA Series Grayhill	PS Series PS Series Electroswitch		800-1030- 804-1710- 128-09 178-03	MS25041 MS25331 LC35 LC11
Toggles:	34A Series 34B Series	A Series WT Series		162-09 230-03 162-14	LC12 LC25 LC29
Rockers:	47A Series 47B Series	B Series WR Series		130-09	LC33
Pushbuttons:	39-2 Series	SA1 Series	Solenoids	Tubular, Box	Frame, and Rotary
Toggles:	APEM 5000 Series S / ST Series	Electroswitch A Series WT Series		Ledex	ol Controls
Rockers:	7000 Series S / SR Series	B Series WR Series		Dorm	Burgess leyer
Pushbuttons:	1800 Series 800 PB	PS Series PS PB			
Encoders:	Bourns EN Series ECW Series EAW Series	Electroswitch 900 Series 700 Series 700 Series			

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.



AMEYA360 Components Supply Platform

Authorized Distribution Brand:

























Website:

Welcome to visit www.ameya360.com

Contact Us:

> Address:

401 Building No.5, JiuGe Business Center, Lane 2301, Yishan Rd Minhang District, Shanghai , China

> Sales:

Direct +86 (21) 6401-6692

Email amall@ameya360.com

QQ 800077892

Skype ameyasales1 ameyasales2

Customer Service :

Email service@ameya360.com

Partnership :

Tel +86 (21) 64016692-8333

Email mkt@ameya360.com