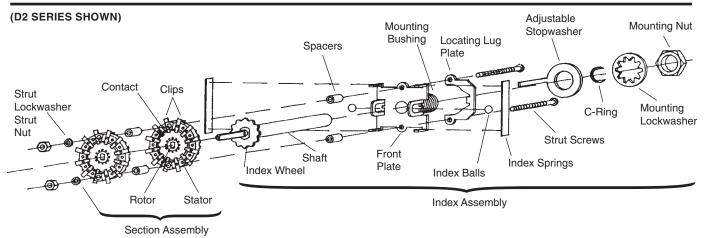
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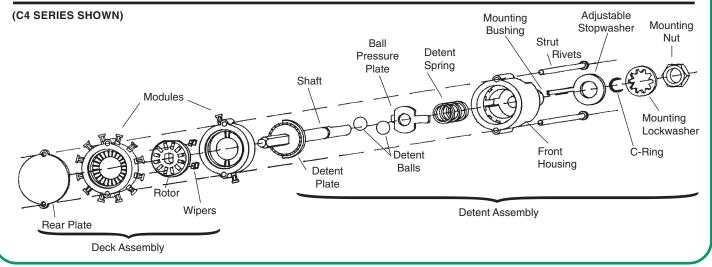
1

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.

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ORDERING METHODS

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

	designed standard part numbers printed in the catalog. <u>G0112S</u> G O 1 1 2 S Contact type Number of positions Poles per switch Insulation type Series designator
	w to Order Additional Options" section located with each series to specify the ents with standard options. <u>0902S</u> Specify additional pole and position options not listed in our standard part numbering section
	Y Shaft flat angle
	Shaft & bushing lengths Fixed stops Index angle Rear PC Mount
 4. Contact the and manufacture designs. Open communicate y 	Fixed stops

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
Е	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
Ē	ourient and voltage	0.25A @ 28 VDC	0.25A @ 28 VDC	0.25A @ 28 VDC	0.5A @ 28 VDC	1.0A @ 28 VDC	1.0A @ 28 VDC
E	Current Carrying Capacity	6A	6A	6A	15A	5A	25A
C	Dielectric Strength	600 VAC	1,000 VAC	1,000 VAC	1,000 VAC	1,000 VAC	1,000 VAC
т	Insulation Resistance	10,000	10,000	10,000	10,000	10,000	10,000
R	(megohms)	10,000	10,000	10,000	10,000	10,000	10,000
ï	Contact Resistance	5	30	30	3	20	3
c	(milliohms)	5	50	50	5	20	5
A	(minorinis)						
L							
-							
М	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
Е	Polyester	NO	STANDARD	STANDARD	NO	STANDARD	NO
R							
Т	Contacts - Silver Alloy ★	YES	NO	NO	YES	NO	YES
Α	Brass/Silver Plate	STANDARD	STANDARD	STANDARD	STANDARD	STANDARD	STANDARD
L							
М	Stop Strength	8 in. lb.	8 in. lb.	8 in. lb.	25 in. lb.	4.5 in. lb.	25 in. lb.
Е	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
Ν	36 °	-	-	-	36	-	-
Т	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
P	Rear PC Mount	YES	NO	NO	YES	YES	NO
Т	Vertical PC Mount *	YES	YES	YES	YES	NO	NO
T	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

4

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UNIT OF ELECTRO SWITCH CORP.

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

C

ENCLOSED FRAME WORKSHEET

SERIES PREFERRED

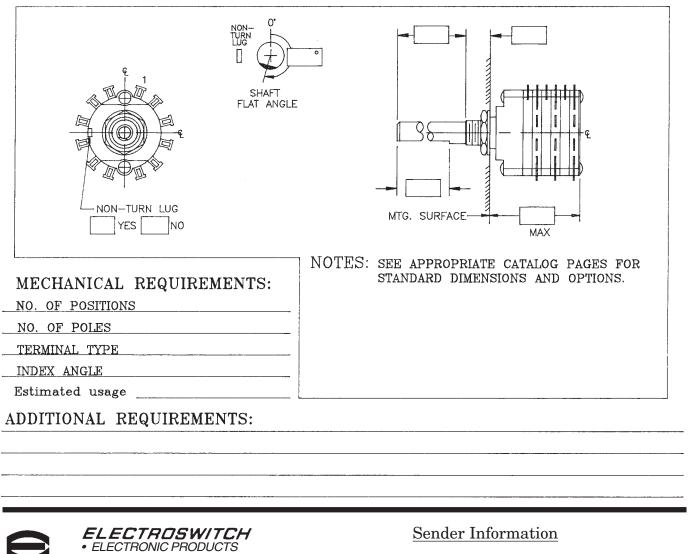
ELECTRICAL REQUIREMENTS:

SHORTING OR NON-SHORTING

CURRENT CARRYING CAPACITY

INTERRUPTING CURRENT MAXIMUM WORKING VOLTAGE

ADDITIONAL REQUIREMENTS:_____



UNIT OF ELECTRO SWITCH CORP.

2010 YONKERS ROAD, RALEIGH, NC 27604

FAX TRANSMISSION

FAX Numbers: (919) 833-8016 (800) 909-9171 FOR ASSISTANCE PLEASE CALL: (919) 833-0707 (888) ROTARYS

Date:	Time:
Name:	
Address:	
Fax #·	

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

0.25 AMP @ 28 VDC

terminals and diallyl phthalate insulation.

C1 - SERIES

С

SPECIFICATIONS

ELECTRICAL

0.865" WIDE

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.

as standard.

MECHANICAL

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.

Materials and Finishes: All parts utilize non-corrosive materials

Hardware: Mounting nut and lockwasher are shipped assembled.

STANDARD PART NUMBER

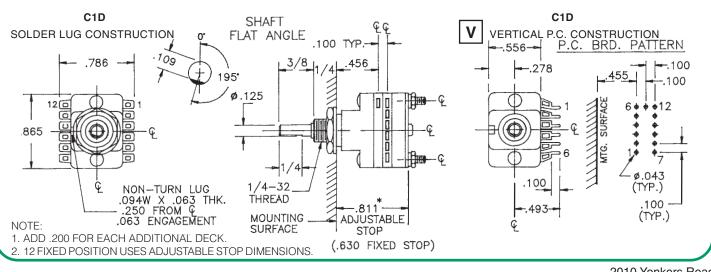
SOLDER LUG - ADJUSTABLE STOPS SWITCHES - 30° INDEXING - STOPS SET @ 2 POS.

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		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	A CA	01	02-12	1	1	C1D0112S - VA	C1D0112N - VA	A CC
02	02-06	2	1	C1D0206S - A	C1D0206N - A	A CH	02	02-06	1	2	C1D0206S - VA	C1D0206N - V/	A CB
03	02-12	1	3	C1D0312S - A	C1D0312N - A	A CA	02	02-12	1	2	C1D0212S - VA	C1D0212N - V	A CC
03	02-04	3	1	C1D0304S - A	C1D0304N - A	K CK	03	02-06	1	3	C1D0306S - VA	C1D0306N - V/	A CB
04	02-06	2	2	C1D0406S - A	C1D0406N - A	A CH	03	02-12	1	3	C1D0312S - VA	C1D0312N - V	A CC
06	02-04	3	2	C1D0604S - A	C1D0604N - A	K 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 - VA	A CC

* FIGURES ARE SHOWN ON PAGE 55.

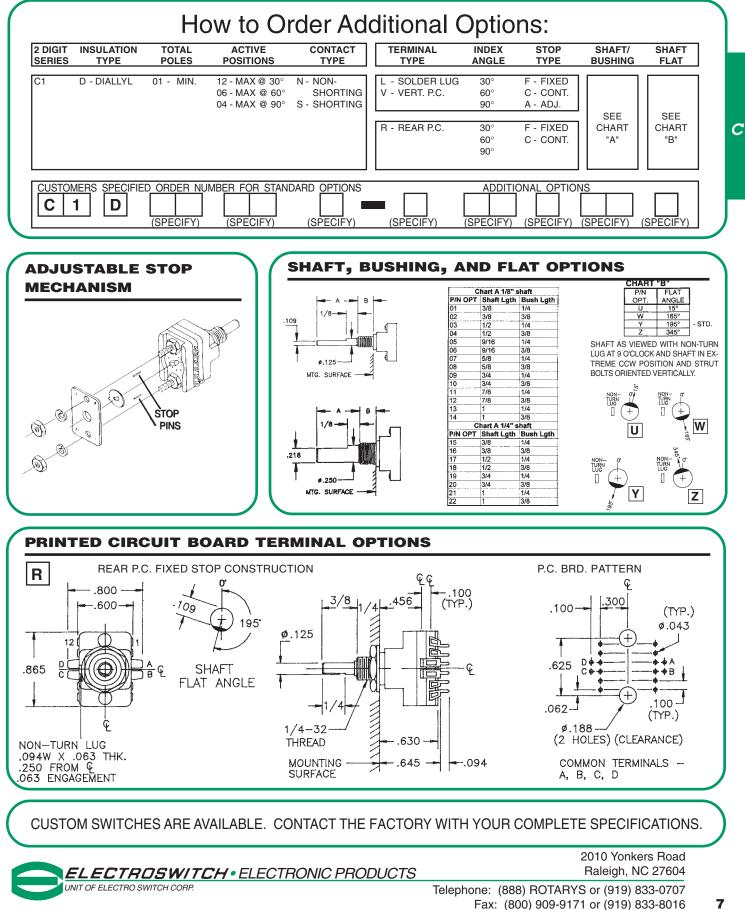




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C1 - SERIES



0.82 / 1.2" WIDE 0.25 AMP @ 28 VDC

C2/C3 - SERIES

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

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: 1,000 VAC between current carrying parts and ground. Contact Resistance: Average initial 30 milliohms. Insulation Resistance: In excess of 10,000 megohms.

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.

Hardware: Mounting nut and lockwasher are shipped assembled.

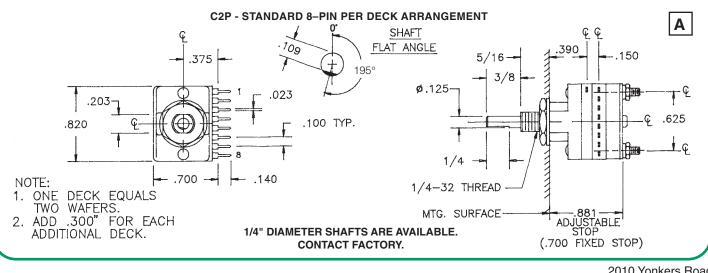
STANDARD PART NUMBER

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

POLES	ACTIVE POSITIONS	POLES/ DECK	NO. OF DECKS		NON- SHORTING	FIG.	POLES	ACTIVE POSITIONS	POLES/ DECK	NO. OF DECKS	SHORTING	NON- SHORTING	FIG. ★
01	02-08	1	1	C2P0108S - A	C2P0108N - A	CD	01	02-12	1	1	C3P0112S - A	C3P0112N - A	CA
02	02-08	1	2	C2P0208S - A	C2P0208N - A	CD	02	02-12	1	2	C3P0212S - A	C3P0212N - A	CA
02	02-04	2	1	C2P0204S - A	C2P0204N - A	CI	02	02-06	2	1	C3P0206S - A	C3P0206N - A	CH
03	02-08	1	3	C2P0308S - A	C2P0308N - A	CD	03	02-04	3	1	C3P0304S - A	C3P0304N - A	CK
04	02-04	2	2	C2P0404S - A	C2P0404N - A	CI	03	02-12	1	3	C3P0312S - A	C3P0312N - A	CA
04	02-08	1	4	C2P0408S - A	C2P0408N - A	CD	04	02-06	2	2	C3P0406S - A	C3P0406N - A	CH
05	02-08	1	5	C2P0508S - A	C2P0508N - A	CD	04	02-12	1	4	C3P0412S - A	C3P0412N - A	CA
06	02-04	2	3	C2P0604S - A	C2P0604N - A	CI	06	02-04	3	2	C3P0604S - A	C3P0604N - A	CK

* FIGURES ARE SHOWN ON PAGE 55.

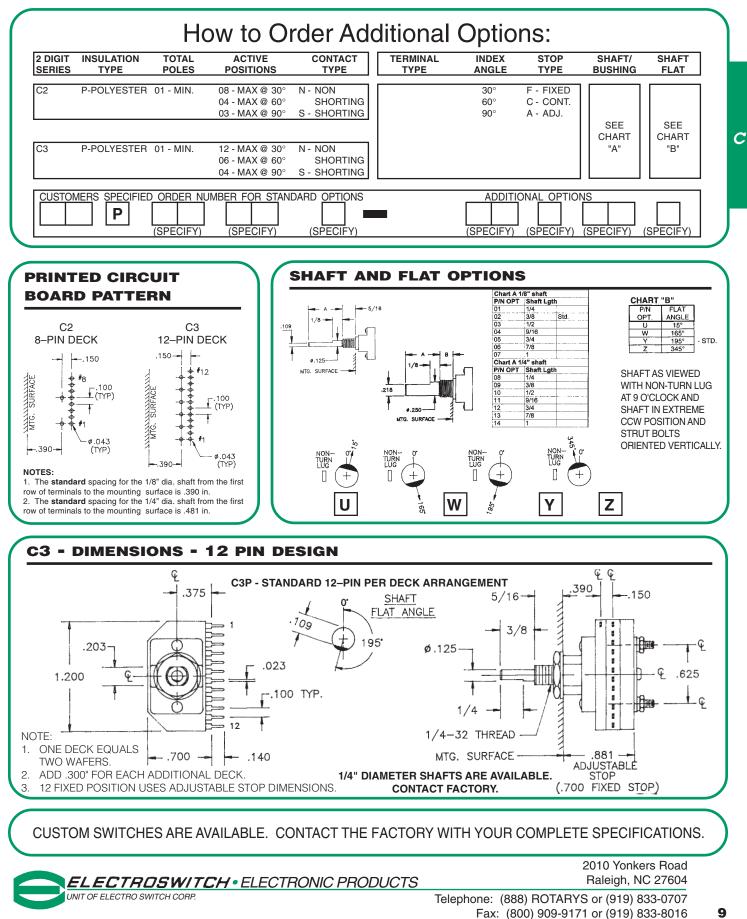




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The C4 Series provides a versatile, fully enclosed design, that helps keep dirt and moisture out of the contact area while locking in life time lubricants. IP67 Rating Available.



SPECIFICATIONS

FI FCTRICAL

C

Current and Voltage Rating: Make and break resistive load 0.5 amp @ 28 VDC; 0.3 amp @ 125 VAC. Current Carrying Capacity: 15 amps. Dielectric Strength: 1,000 VAC between current carrying parts and ground. Contact Resistance: Average initial 3 milliohms. Insulation Resistance: In excess of 10,000 megohms.

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.

Hardware: Mounting nut and lockwasher are shipped assembled.

STANDARD PART NUMBER

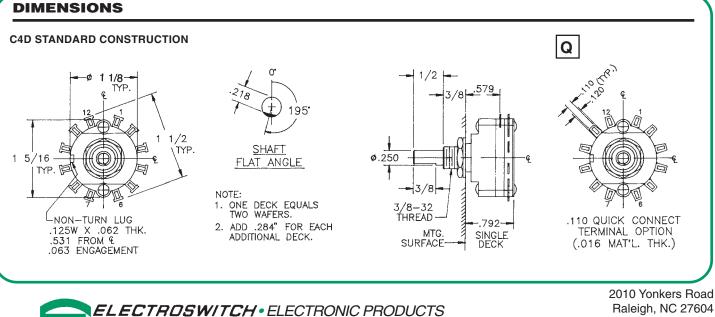
C4 - SERIES

1.5" DIAMETER 0.5 AMP @ 28 VDC

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

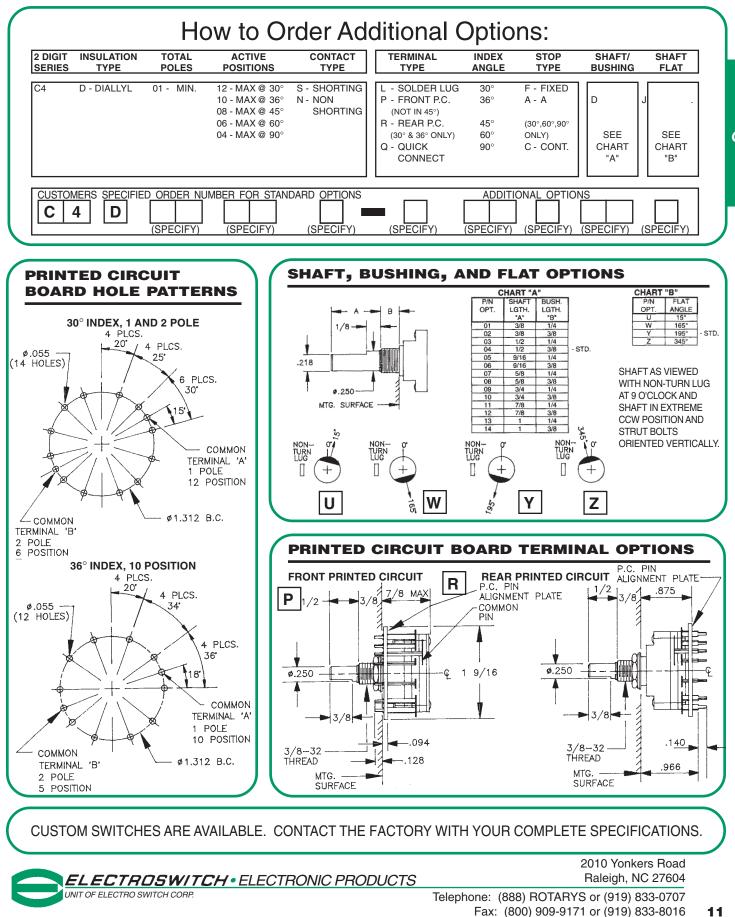
POLES	ACTIVE POSITIONS	POLES/ DECK	NO. OF DECKS	SHORTING	NON- SHORTING	FIG.	POLES	ACTIVE POSITIONS	POLES/ DECK	NO. OF DECKS	SHORTING	NON- SHORTING	FIG. ★
01	02-12	1	1	C4D0112S - A	C4D0112N - A	CA	06	02-06	2	3	C4D0606S - A	C4D0606N - A	СН
02	02-06	2	1	C4D0206S - A	C4D0206N - A	CH	06	02-04	3	2	C4D0604S - A	C4D0604N - A	CK
02	02-12	1	2	C4D0212S - A	C4D0212N - A	CA	06	02-12	1	6	C4D0612S - A	C4D0612N - A	CA
03	02-12	1	3	C4D0312S - A	C4D0312N - A	CA	08	02-06	2	4	C4D0806S - A	C4D0806N - A	CH
03	02-04	3	1	C4D0304S - A	C4D0304N - A	CK	09	02-04	3	3	C4D0904S - A	C4D0904N - A	CK
04	02-12	1	4	C4D0412S - A	C4D0412N - A	CA	10	02-06	2	5	C4D1006S - A	C4D1006N - A	CH
04	02-06	2	2	C4D0406S - A	C4D0406N - A	CH	12	02-04	3	4	C4D1204S - A	C4D1204N - A	CK
05	02-12	1	5	C4D0512S - A	C4D0512N - A	CA	15	02-04	3	5	C4D1504S - A	C4D1504N - A	CK

* FIGURES ARE SHOWN ON PAGE 55.



UNIT OF ELECTRO SWITCH CORP.

C4 - SERIES



C

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.

1.0 AMP @ 28 VDC

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

Contact Resistance: Average initial 20 milliohms.

Insulation Resistance: In excess of 10,000 megohms.

C5 - SOLDER LUG TERMINALS

0.92" DIAMETER

SPECIFICATIONS

1 amp @ 28 VDC; 1 amp @ 125 VAC.

Current Carrying Capacity: 5 amps.

FI FCTRICAL

around.

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

C5/C6 - SERIES

Current and Voltage Rating: Make and break resistive load

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

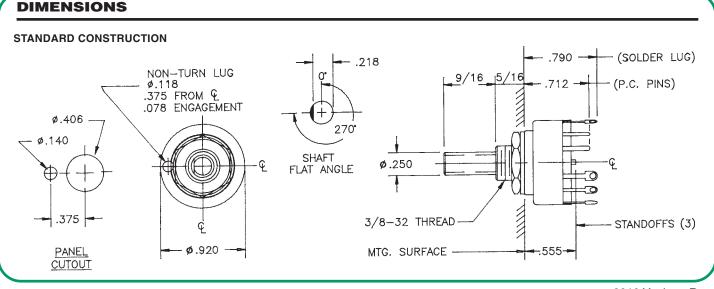
Hardware: Mounting nut and lockwasher are shipped assembled.

C5 - P.C. TERMINALS

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

P	OLES	ACTIVE POSITIONS	POLES/ SECTION	NO. OF SECTIONS	NON- SHORTING	FIG. ★	POLES	ACTIVE POSITIONS	POLES/ SECTION	NO. OF SECTIONS	NON- SHORTING	FIG.
	01	02-12	1	1	C5P0112N - A	CE	01	02-12	1	1	C5P0112N - RA	A CE
	02	02-06	2	1	C5P0206N - A	CJ	02	02-06	2	1	C5P0206N - RA	A CJ
	03	02-04	3	1	C5P0304N - A	CL	03	02-04	3	1	C5P0304N - RA	A CL
	04	02-03	4	1	C5P0403N - A	CM	04	02-03	4	1	C5P0403N - RA	A CM
C6 -	UNSE	EALED					C6 - UNS	SEALED				
	01	02-12	1	1	C6P0112N - A	CE	01	02-12	1	1	C6P0112N - RA	A CE
	02	02-06	2	1	C6P0206N - A	CJ	02	02-06	2	1	C6P0206N - RA	A CJ
	03	02-04	3	1	C6P0304N - A	CL	03	02-04	3	1	C6P0304N - RA	A CL
	04	02-03	4	1	C6P0403N - A	CM	04	02-03	4	1	C6P0403N - RA	A CM

* FIGURES ARE SHOWN ON PAGE 55.



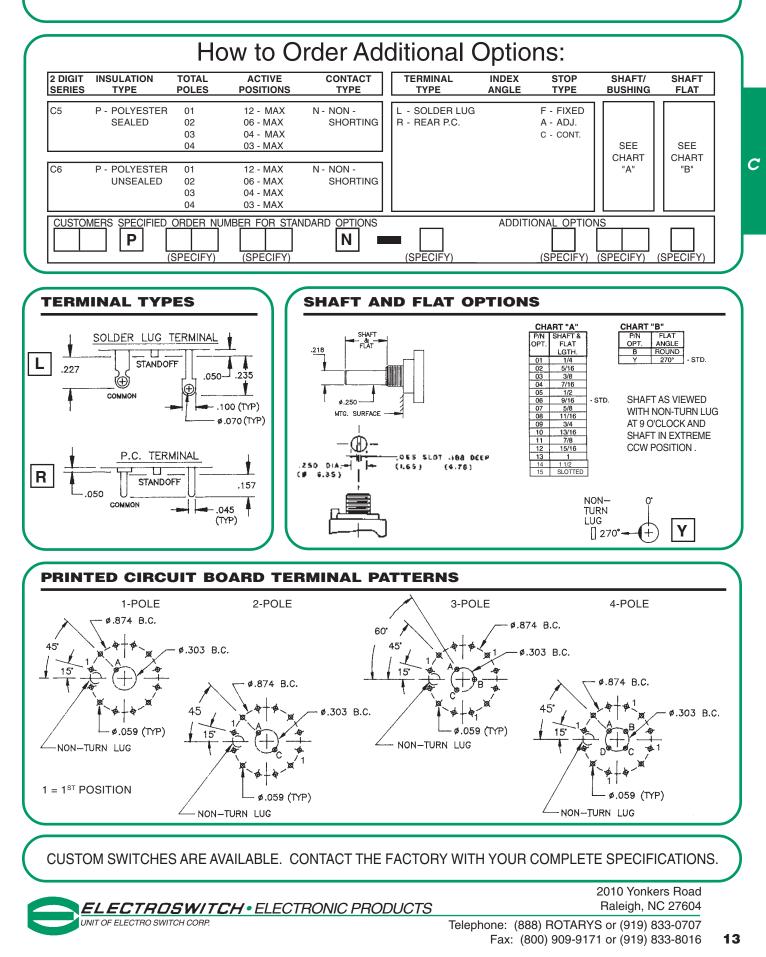
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C5/C6 - SERIES



2 1/32" DIAMETER 1.0 AMP @ 28 VDC

C7 - SERIES

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 ECTRICAL

C

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 around. 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

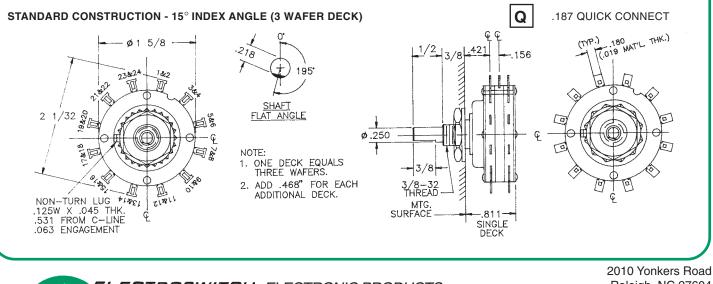
	ACTIVE	POLES/	NO. (OF SHORTIN	G NON-	FIG.
POLES	POSITIONS	DECK	DEC	KS	SHORTING	*
01	23	1	1	C7D0123S	C7D0123N	CF
02	23	1	2	C7D0223S	C7D0223N	CF
03	23	1	3	C7D0323S	C7D0323N	CF
04	23	1	4	C7D0423S	C7D0423N	CF
30° INDI	EXING					
01	12	1	1	C7D0112S -30	C7D0112N -30	CA
02	12	1	2	C7D0212S -30	C7D0212N -30	CA
03	12	1	3	C7D0312S -30	C7D0312N -30	CA

15° INDEXING - CONTINUOUS ROTATION SOLDER LUG TERMINALS

IG.		ACTIVE	POLES/	NO.	OF	SHORTING	A NON-	FIG.
*	POLES	POSITIONS	DECK	DEC	KS		SHORTING	*
CF	01	24	1	1	C7E	D0124S - C	C7D0124N - C	CG
CF	02	24	1	2	C7E	D0224S - C	C7D0224N - C	CG
CF	03	24	1	3	C7E	D0324S - C	C7D0324N - C	CG
CF	04	24	1	4	C7E	00424S - C	C7D0424N - C	CG
	30° IND	EXING						
CA	01	12	1	1	C7D0	0112S -30C	C7D0112N -30C	CA
CA	02	12	1	2	C7D0	0212S -30C	C7D0212N -30C	CA 🕻
CA	03	12	1	3	C7D0	0312S -30C	C7D0312N -30C	CA

* FIGURES ARE SHOWN ON PAGE 55.

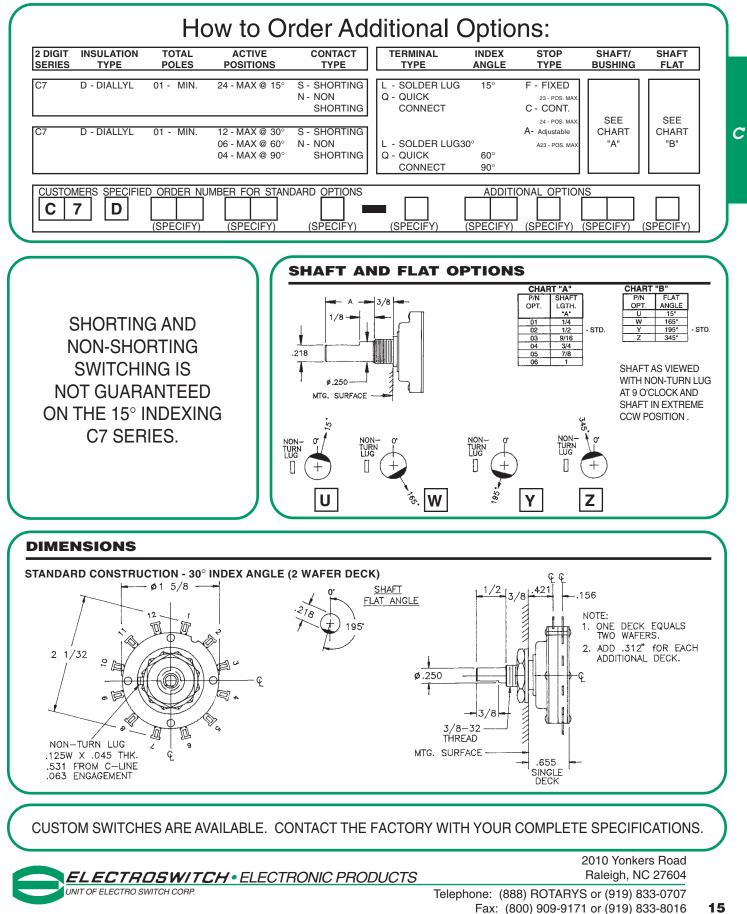
DIMENSIONS



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C7 - SERIES



SELECTOR GUIDE OPEN FRAME ROTARY ELECTRONIC SWITCHES













	CHARACTERISTICS	SERIES D1	SERIES D2	SERIES D3	SERIES D4	SERIES D5	SERIES D6
	Page Number	18,19	20,21	22,23	24,25	26,27	28,29
	Construction	OPEN	OPEN	OPEN	OPEN	OPEN	OPEN
	Diameter	1.00"	1.00"	1.312"	1.437"	1.437"	1.687"
	Positions	2 - 12	2 - 12	2 - 12	2 - 12	2 - 12	2 - 12
Е	Current and Voltage	0.25A @ 115 VAC	0.25A @ 115 VAC	0.5A @ 115 VAC			
L.	Ŭ	0.55A @ 28 VDC	0.55A @ 28 VDC	1.5A @ 28 VDC			
E	Current Carrying Capacity	7A	7A	12A	9A	9A	9A
с	Dielectric Strength	750 VAC	750 VAC	1,000 VAC	1,500 VAC	1,500 VAC	1,500 VAC
T	Insulation Resistance	750,000	900,000	1,000,000	1,000,000	750,000	900,000
R	(megohms)	100,000	000,000	1,000,000	1,000,000	700,000	000,000
i i	Contact Resistance	5	5	3.5	3.5	3.5	3.5
C	(milliohms)	5	5	5.5	0.0	0.0	0.0
	(minorins)						
A							
5							
М	Insulation - Glass Epoxy	STANDARD	YES	STANDARD	STANDARD	STANDARD	YES
Α	Diallyl Phthalate	YES	STANDARD	YES	YES	NO	STANDARD
Т	Ceramic	YES	YES	YES	YES	NO	YES
E							
R							
11	Contacts - Silver Alloy ★	YES	YES	STD-CERAMIC	YES	YES	YES
Α	Brass/Silver Plate	STANDARD	STANDARD	STD-GLASS	STANDARD	STANDARD	STANDARD
L							
М	Stop Strength	10 in. lb.	10 in. lb.	25 in. lb.	10 in. lb.	25 in. lb.	25 in. lb.
Е	Mechanical Life	25,000 cycles	25,000 cycles	25,000 cycles	25,000 cycles	25,000 cycles	25,000 cycles
С	Detenting Angles:						
н							
Α	30 °	30	30	30	30	30	30
Ν	36 °	36	36	—	—	—	36
1	45 °	45	45	—	-	—	45
С	60 °	—	60	60	60	—	60
Α							
L							
0	Quick Connect	NO	NO	NO	NO	NO	NO
Р	Rear PC Mount	YES	YES	YES	YES	YES	YES
Т	Vertical PC Mount *	YES	YES	NO	NO	NO	NO
Т	Front PC Mount ★	YES	YES	YES	YES	YES	YES
0	Dual Concentric Designs \star	YES	YES	YES	YES	NO	NO
Ν	Keylock ★	YES	YES	YES	YES	YES	YES
S	Spring Return ★	NO	NO	NO	NO	NO	NO
	Water Resistant Seals \star	YES	YES	YES	YES	YES	YES
	Originally Designed To Meet Mil 3786/	SR05	N/A	SR03	SR02	N/A	N/A

★ Contact factory



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UNIT OF ELECTRO SWITCH CORP.

D

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	
Е	Current and Voltage	1.0A @ 115 VAC	1.0A @ 115 VAC	0.25A @ 115 VAC	
1	Current and Voltage	2.25A @ 28 VDC	2.25A @ 28 VDC	1.5A @ 28 VDC	
E	Current Carrying Capacity	2.25A @ 28 VDC 9A	2.25A @ 28 VDC 9A	9A	
C	Dielectric Strength	1,500 VAC	1,000 VAC	1,000 VAC	
т	Insulation Resistance	750 ,000	750,000	750 ,000	
R	(megohms)	750,000	730,000	700,000	Also see our "E" Series
i i	Contact Resistance	3.5	5	5	section for specialty open
c	(milliohms)	0.0	U	Ū	
A	(initionitio)				frame switches on pages 37
Ĺ					thru 43.
Ē.					
М	Insulation - Glass Epoxy	STANDARD	STANDARD	STANDARD	
Α	Diallyl Phthalate	NO	NO	NO	
Т	Ceramic	YES	NO	NO	Use the open frame
E					worksheet on page 45 for
R					1 0
1.	Contacts - Silver Alloy ★	YES	YES	YES	custom designs.
Α	Brass/Silver Plate	STANDARD	STANDARD	STANDARD	
L					
М	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 °	—	—	—	
Ν	30 °	30	-	-	
	36 °	-	-	-	
С	45°	-	-	-	
A	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 \star	YES	YES	YES	
Ν	Keylock ★	YES	YES	YES	
S	Spring Return ★	NO	NO	NO	
	Water Resistant Seals \star	YES	YES	YES	
	Originally Designed To Meet Mil 3786/	N/A	N/A	N/A	

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ELECTROSWITCH • ELECTRONIC PRODUCTS

2010 Yonkers Road Raleigh, NC 27604

1" DIAMETER 0.55 AMP @ 28 VDC

D1 - SERIES

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



SPECIFICATIONS

ELECTRICAL

Current and Voltage Rating: Make and break resistive load 0.55 amp @ 28 VDC; 0.25 amp @ 115 VAC. Current Carrying Capacity: 7 amps. Dielectric Strength: 750 VAC between current carrying parts and

around. 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

CERAMIC INSULATION

SWITCHES - SOLDER LUG TERMINALS - 30° INDEX

Materials and Finishes: All parts utilize non-corrosive materials as standard. Clips and Rotors: Brass with silver plate as standard. Insulation: Glass, diallyl phthalate, or ceramic. Index: Dual-ball, side thrust design. Index Life: 25,000 cycles minimum. Index Torque: Switches have lowest practical torque consistent with crisp detenting and smooth, reliable operation. Index Angle: Positive 30° standard, 36°, and 45° available. Index Stops: Fixed or Continuous available. Stop Strength: 10 in. lbs. minimum.

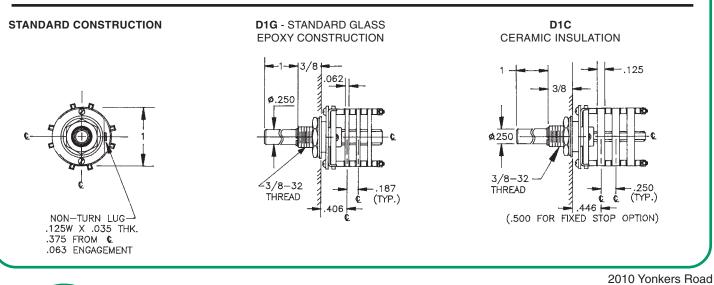
D **STANDARD PART NO.**

EPOXY GLASS INSULATION SWITCHES - SOLDER LUG TERMINIALS - 30° INDEX

SWITCH	SWITCHES - SOLDER LOG TERMINALS - SU INDEX								3 - SOLDEN LU	GIERIVIINAL	5-30 IN	JEA		
POLES	ACTIVE POSITIONS	POLES/ SECTION	NO. (SECTI		G NON- SHORTING	FIG.	I	POLES	ACTIVE POSITIONS	POLES/ SECTION	NO. 0 SECTIO		g non- Shorting	FIG. ★
01	02-12	1	1	D1G0112S-F	D1G0112N-F	DE		01	02-11	1	1	D1C0111S-F	D1C0111N-F	DB
02	02-12	1	2	D1G0212S-F	D1G0212N-F	DE		02	02-11	1	2	D1C0211S-F	D1C0211N-F	DB
02	02-06	2	1	D1G0206S-F	D1G0206N-F	DL		02	02-05	2	1	D1C0205S-F	D1C0205N-F	DG
03	02-12	1	3	D1G0312S-F	D1G0312N-F	DE		03	02-11	1	3	D1C0311S-F	D1C0311N-F	DB
03	02-05	3	1	D1G0305S-F	D1G0305N-F	DO		03	02-03	3	1	D1C0303S-F	D1C0303N-F	DN
04	02-06	2	2	D1G0406S-F	D1G0406N-F	DL		04	02-05	2	2	D1C0405S-F	D1C0405N-F	DG
06	02-06	2	3	D1G0606S-F	D1G0606N-F	DL		06	02-05	2	3	D1C0605S-F	D1C0605N-F	DG
06	02-05	3	2	D1G0605S-F	D1G0605N-F	DO		06	02-03	3	2	D1C0603S-F	D1C0603N-F	DN

* FIGURES ARE SHOWN ON PAGES 55 AND 56.

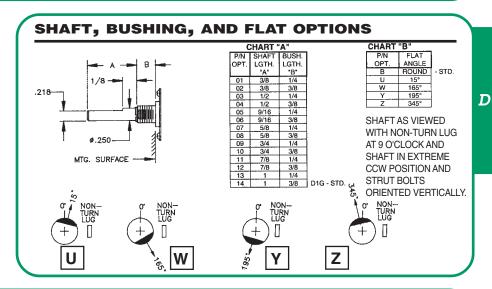
DIMENSIONS



Raleigh, NC 27604

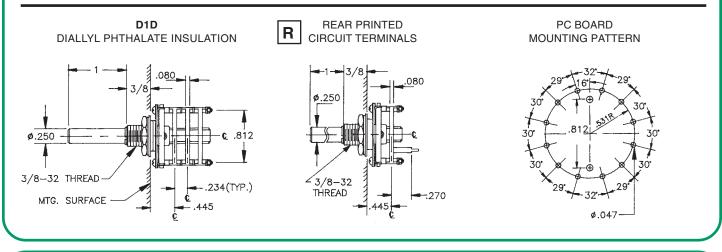
ELECTROSWITCH • ELECTRONIC PRODUCTS UNIT OF ELECTRO SWITCH CORP.

How to Order Additional Options: TOTAL CONTACT TERMINAL INDEX 2 DIGIT INSULATION ACTIVE STOP SHAFT/ SHAFT SERIES TYPE POLES POSITIONS TYPE TYPE ANGLE TYPE BUSHING FLAT D1 G - GLASS 01 - MIN. 12 - MAX @ 30° S - SHORTING L - SOLDER LUG 30 10 - MAX @ 36° N - NON-R - (REAR P.C. F - FIXED (7-POS MAX @45 (30°,36°,45°) 36° D - DIALLYL SHORTING NOT CERAMIC) 08 - MAX @ 45 45° (30°,45°) C - CONT. SEE SEE CHART CHART C - CERAMIC 01 - MIN. 11 - MAX @ 30° S - SHORTING L - SOLDER LUG D1 30 "A" "B" N - NON-F - FIXED SHORTING C - CONT. SPECIFIED ORDER NUMBER FOR STANDARD OPTIONS CUSTOMERS ADDITIONAL OPTIONS 1 D (SPECIFY) (SPECIFY) (SPECIFY) (SPECIFY) (SPECIFY) (SPECIFY) (SPECIFY) (SPECIFY



D1 - SERIES

INSULATION AND PRINTED CIRCUIT BOARD TERMINAL OPTIONS



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

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19

The D2 Series switch is used where space is at a premium. This dual-ball side thrust index offers exceptional torque control and is available in 30°, 36°,

45°, and 60° angles. Standard designs utilize diallyl phthalate or ceramic insulation, solder lug terminals, and 30° adjustable stop indexing.

SPECIFICATIONS

ELECTRICAL

Current and Voltage Rating: Make and break resistive load 0.55 amp @ 28 VDC; 0.25 amp @ 115 VAC. Current Carrying Capacity: 7 amps. Dielectric Strength: 750 VAC between current carrying parts and

ground.

D2 - SERIES

1" DIAMETER 0.55 AMP @ 28 VDC

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. Ibs. minimum.

D STANDARD PART NUMBER

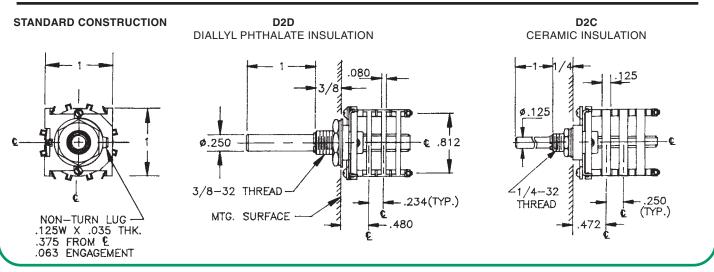
DIALLYL PHTHALATE INSULATION - ADJUSTABLE STOPS SWITCHES - SOLDER LUG TERMINALS - 30° INDEX - SET @ 2 POS. **CERAMIC INSULATION - ADJUSTABLE STOPS**

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

POLE	ACTIVE S POSITIONS	POLES/ SECTION	NO. SECT		G NON- SHORTING	FIG. ★	POLES	ACTIVE POSITIONS	POLES/ SECTION	NO. O SECTIO		G NON- SHORTING	FIG. ★
01	02-12	1	1	D2D0112S	D2D0112N	DE	01	02-11	1	1	D2C0111S	D2C0111N	DB
02	02-06	2	1	D2D0206S	D2D0206N	DL	02	02-05	2	1	D2C0205S	D2C0205N	DG
02	02-12	1	2	D2D0212S	D2D0212N	DE	02	02-11	1	2	D2C0211S	D2C0211N	DB
03	02-05	3	1	D2D0305S	D2D0305N	DO	03	02-03	3	1	D2C0303S	D2C0303N	DN
03	02-12	1	3	D2D0312S	D2D0312N	DE	03	02-11	1	3	D2C0311S	D2C0311N	DB
04	02-06	2	2	D2D0406S	D2D0406N	DL	04	02-05	2	2	D2C0405S	D2C0405N	DG
06	02-05	3	2	D2D0605S	D2D0605N	DO	06	02-05	2	3	D2C0605S	D2C0605N	DG
06	02-06	2	3	D2D0606S	D2D0606N	DL	06	02-03	3	2	D2C0603S	D2C0603N	DN

* FIGURES ARE SHOWN ON PAGES 55 AND 56.

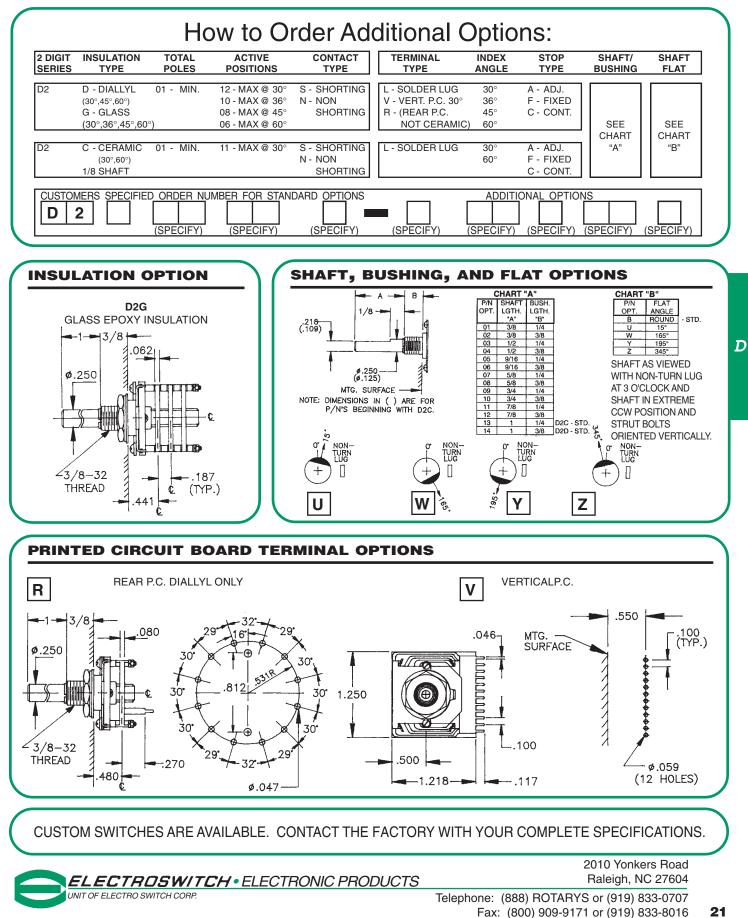
DIMENSIONS



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UNIT OF ELECTRO SWITCH CORP.

D2 - SERIES



21

1 5/16" DIAMETER 1.5 AMPS @ 28 VDC

D3 - SERIES

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

SPECIFICATIONS

ELECTRICAL

Current and Voltage Rating: Make and break resistive load 1.5 amps @ 28 VDC; 0.5 amp @ 115 VAC. Current Carrying Capacity: 9 amps. Dielectric Strength: 1,000 VAC between current carrying parts and ground. Contact Resistance: Average initial 3.5 milliohms. Insulation Resistance: Glass in excess of 750,000 megohms. Ceramic in excess of 1,000,000 megohms. Diallyl in excess of 900,000 megohms.

Hardware: Mounting nut and lockwasher are shipped assembled.

MECHANICAL

Materials and Finishes: All parts utilize non-corrosive materials. Clips and Rotors: Silver alloy standard on ceramic. Brass with silver plate standard on glass. Insulation: Glass epoxy, ceramic, or diallyl phthalate. Index: Single-ball, hill and valley. Index Life: 25,000 cycles minimum. Index Torque: Switches have lowest practical torque consistent with crisp detenting and smooth, reliable operation. Index Angles: Positive 30° standard, 60° available. Index Stops: Adjustable standard, fixed or continuous. Stop Strength: 25 in. lbs. minimum.

D STANDARD PART NUMBER

EPOXY GLASS INSULATION - BRASS SILVER PLATE SWITCHES - SOLDER LUG TERMINALS - 30° INDEX - ADJUSTABLE STOPS SET @ 2 POS.

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

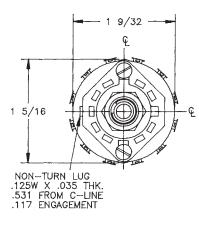
CERAMIC INSULATION - SILVER ALLOY - 2.6 AMPS @ 28 VDC

5.	SWITCHES	- SOLDEN LUC		- 30 IND	EX - ADJ	USTABLE 3	STOP3 3ET @ 2	FU3.
i.		ACTIVE	POLES/	NO. C	DF SH	ORTING	NON-	FIG.
	POLES	POSITIONS	SECTION	SECTIO	ONS		SHORTING	*
1	01	02-11	1	1	D3C01	11S	D3C0111N	DA
۱.	02	02-11	1	2	D3C02	11S	D3C0211N	DA
ł	02	02-05	2	1	D3C02	05S	D3C0205N	DH
١	03	02-11	1	3	D3C03	11S	D3C0311N	DA
1	03	02-03	3	1	D3C03	03S	D3C0303N	DM
ł	04	02-05	2	2	D3C04	-05S	D3C0405N	DH
1	06	02-03	3	2	D3C06	03S	D3C0603N	DM
ł	06	02-05	2	3	D3C06	05S	D3C0605N	DH

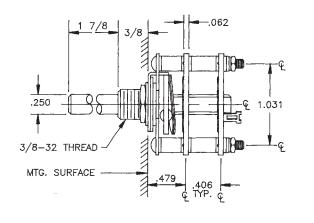
* FIGURES ARE SHOWN ON PAGES 55 AND 56.

DIMENSIONS





D3G - GLASS EPOXY CONSTRUCTION

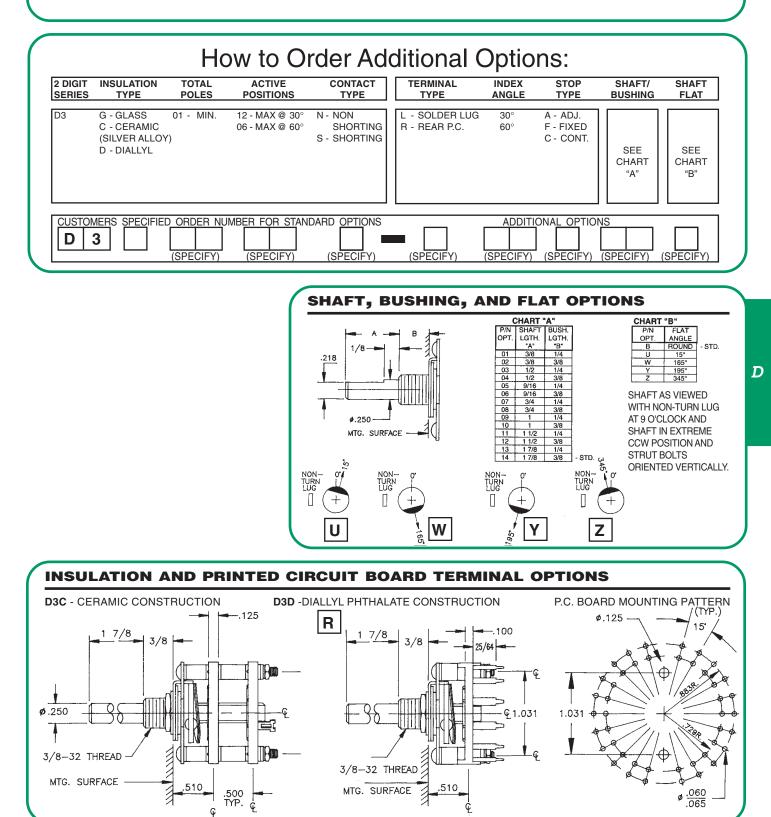




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UNIT OF ELECTRO SWITCH CORP.

D3 - SERIES



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1.437" DIAMETER 1.5 AMPS @ 28 VDC

D4 - SERIES

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

D

Current and Voltage Rating: Make and break resistive load 1.5 amps @ 28 VDC; 0.5 amp @ 115 VAC. Current Carrying Capacity: 9 amps.

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

Contact Resistance: Average initial 3.5 milliohms.

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

Hardware: Mounting nut and lockwasher are shipped assembled.

MECHANICAL

Materials and Finishes: All parts utilize non-corrosive materials as standard. Clips and Rotors: Brass with silver plate as standard. Insulation: Glass epoxy, ceramic, or diallyl phthalate. Index: Single-ball, hill and valley. Index Life: 25,000 cycles minimum. Index Torque: Switches have lowest practical torque consistent with crisp detenting and smooth, reliable operation. Index Angles: Positive 30° standard, 60° available. Index Stops: Adjustable standard, fixed or continuous. Stop Strength: 10 in. lbs. minimum.

STANDARD PART NUMBER

	GLASS EPOXY INSULATION CERAMIC INSULATION SWITCHES - SOLDER LUG TERMINALS - 30° INDEX - ADJUSTABLE STOPS SWITCHES - SOLDER LUG TERMINALS - 30° INDEX - ADJUSTABLE STOPS												
POLES	ACTIVE S POSITIONS	POLES/ SECTION	NO. OF SECTIONS	SHORTING	NON- SHORTING	FIG. ★	POLES	ACTIVE POSITIONS	POLES/ SECTION	NO. OF SECTIONS	SHORTING	NON- SHORTING	FIG. ★
01	02-11	1	1	D4G0111S	D4G0111N	DA	01	02-12	1	1	D4C0112S	D4C0112N	DD
02	02-11	1	2	D4G0211S	D4G0211N	DA	02	02-12	1	2	D4C0212S	D4C0212N	DD
02	02-05	2	1	D4G0205S	D4G0205N	DG	02	02-06	2	1	D4C0206S	D4C0206N	DL
03	02-11	1	3	D4G0311S	D4G0311N	DA	03	02-12	1	3	D4C0312S	D4C0312N	DD
03	02-03	3	1	D4G0303S	D4G0303N	DM	03	02-05	3	1	D4C0305S	D4C0305N	DO
04	02-11	1	4	D4G0411S	D4G0411N	DA	04	02-12	1	4	D4C0412S	D4C0412N	DD
04	02-05	2	2	D4G0405S	D4G0405N	DG	04	02-06	2	2	D4C0406S	D4C0406N	DL
05	02-11	1	5	D4G0511S	D4G0511N	DA	05	02-12	1	5	D4C0512S	D4C0512N	DD
06	02-11	1	6	D4G0611S	D4G0611N	DA	05	02-03	5	1	D4C0503S	D4C0503N	DR
06	02-05	2	3	D4G0605S	D4G0605N	DG	06	02-12	1	6	D4C0612S	D4C0612N	DD
06	02-03	3	2	D4G0603S	D4G0603N	DM	06	02-06	2	3	D4C0606S	D4C0606N	DL
09	02-03	3	3	D4G0903S	D4G0903N	DM	06	02-05	3	2	D4C0605S	D4C0605N	DO

* FIGURES ARE SHOWN ON PAGES 55 AND 56.

DIMENSIONS

STANDARD CONSTRUCTION **D4G - STANDARD GLASS EPOXY CONSTRUCTION** 5/16Ç 7/8-3/8 Ø.250 1 7/16 ¢ 3/8-32 THREAD MTG. SURFACE -NON-TURN LUG .125W X .035 THK. 562 .437 FROM C-LINE .090 ENGAGEMENT

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

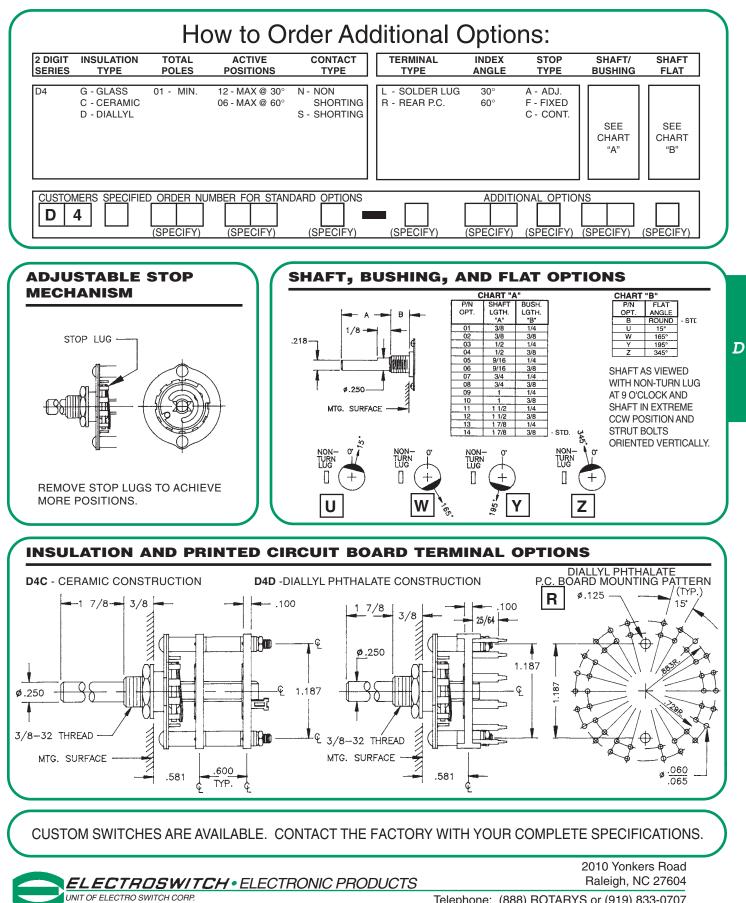
.062

562

TYP.

1.187

D4 - SERIES



25

1.437" DIAMETER 1.5 AMPS @ 28 VDC

D5 - SERIES

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

D

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

Hardware: Mounting nut and lockwasher are shipped assembled.

MECHANICAL

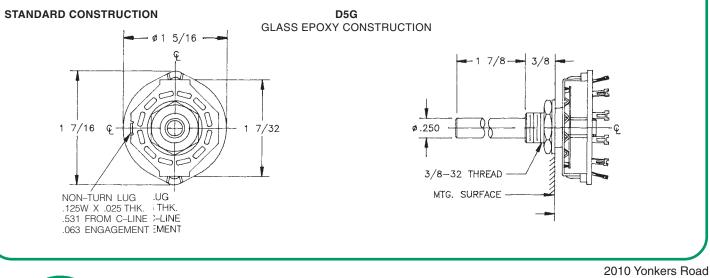
Materials and Finishes: All parts utilize non-corrosive materials as standard.
Clips and Rotors: Brass with silver plate as standard.
Insulation: Glass epoxy.
Index: Formed spring, hill and valley design.
Index Life: 25,000 cycles minimum.
Index Torque: Switches have lowest practical torque consistent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

STANDARD PART NUMBER

SOLDER LUG TERMINALS PRINTED CIRCUIT BOARD TERMINALS SWITCHES - 30° INDEXING - FIXED STOPS SWITCHES - 30° INDEXING - FIXED STOPS													
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	06	1	1	D5G0106S	D5G0106N	DB	01	06	1	1	D5G0106S - R	D5G0106N - R	DB
01	08	1	1	D5G0108S	D5G0108N	DB	01	08	1	1	D5G0108S - R	D5G0108N - R	DB
01	10	1	1	D5G0110S	D5G0110N	DB	01	10	1	1	D5G0110S - R	D5G0110N - R	DB
01	11	1	1	D5G0111S	D5G0111N	DB	01	11	1	1	D5G0111S - R	D5G0111N - R	DB
02	04	2	1	D5G0204S	D5G0204N	DG	02	04	2	1	D5G0204S - R	D5G0204N - R	DG
02	05	2	1	D5G0205S	D5G0205N	DG	02	05	2	1	D5G0205S - R	D5G0205N - R	DG
03	03	3	1	D5G0303S	D5G0303N	DN	03	03	3	1	D5G0303S - R	D5G0303N - R	DN

* FIGURES ARE SHOWN ON PAGES 55 AND 56.

DIMENSIONS

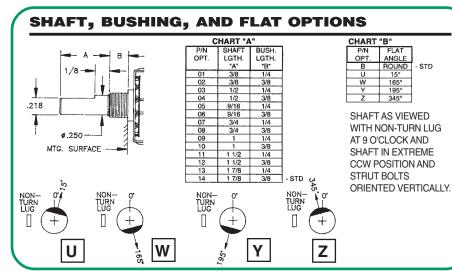


ELECTROSWITCH • ELECTRONIC PRODUCTS

2010 Yonkers Road Raleigh, NC 27604

UNIT OF ELECTRO SWITCH CORP.

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 S - SHORTING L - SOLDER LUG D5 G - GLASS 01 - MIN. 12 - MAX @ 30° F - FIXED N - NON R - REAR P.C. C - CONT. SHORTING SEE SEE CHART CHART "A" "B" CUSTOMERS SPECIFIED ORDER NUMBER FOR STANDARD OPTIONS ADDITIONAL OPTIONS 5 G D (SPECIFY (SPECIFY) (SPECIFY) (SPECIFY) (SPECIFY) (SPECIFY) (SPECIFY)



D5 - SERIES

PRINTED CIRCUIT BOARD OPTIONS P.C. BOARD MOUNTING PATTERN R .093 3/8 7/8 Ø.093 (TYP) ø.250 .332 .916 1.272 3/8-32 THREAD MTG. SURFACE .110 .422 .561 .980 1.300

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

27

ELECTROSWITCH • ELECTRONIC PRODUCTS UNIT OF ELECTRO SWITCH CORP.

2010 Yonkers Road Raleigh, NC 27604 D

D6 - SERIES SF 1.687" DIAMETER 1.5 AMPS @ 28 VDC

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



SPECIFICATIONS

ELECTRICAL

Current and Voltage Rating: Make and break resistive load 1.5 amps @ 28 VDC; 0.5 amp @ 115 VAC. Current Carrying Capacity: 9 amps. Dielectric Strength: 1,500 VAC between current carrying parts and ground. Contact Resistance: Average initial 3.5 milliohms. Insulation Resistance: Diallyl in excess of 900,000 megohms. Glass in excess of 750,000 megohms.

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

MECHANICAL

Materials and Finishes: All parts utilize non-corrosive materials as standard.
Clips and Rotors: Brass with silver plate as standard.
Insulation: Diallyl phthalate, glass, or ceramic.
Index: Dual-ball, side thrust design.
Index Life: 25,000 cycles minimum.
Index Torque: Switches have lowest practical torque consistent with crisp detenting and smooth, reliable operation.
Index Angles: Positive 30° standard, 36°, 45°, and 60° available.
Index Stops: Adjustable standard, fixed or continuous.
Stop Strength: 25 in. lbs. minimum.

D STANDARD PART NUMBER

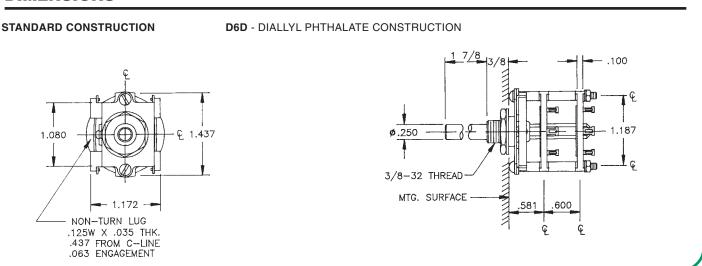
DIALLYL PHTHALATE INSULATION

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

POLES	ACTIVE POSITIONS	POLES/ SECTION	NO. OF SECTIONS	SHORTING	NON- SHORTING	FIG.	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	08	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

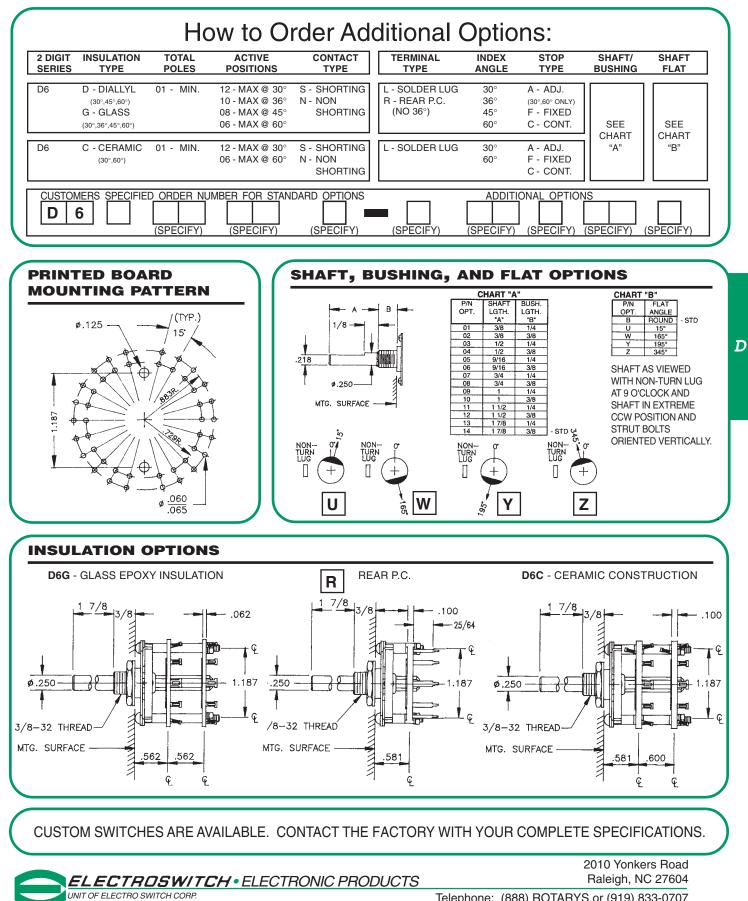


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ELECTROSWITCH • ELECTRONIC PRODUCTS

UNIT OF ELECTRO SWITCH CORP.

D6 - SERIES



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

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1 7/8" DIAMETER 2.25 AMPS @ 28 VDC

D7 - SERIES

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

D

MECHANICAL

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

Contact Resistance: Average initial 3 milliohms.

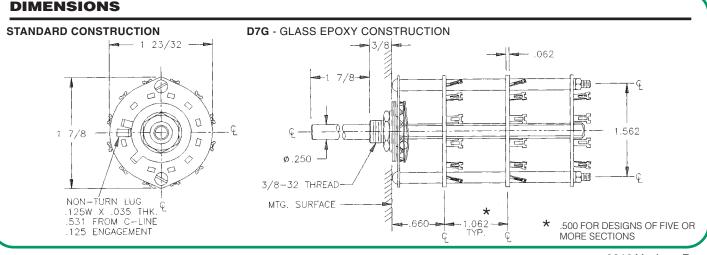
Insulation Resistance: Glass in excess of 750,000 megohms. Ceramic in excess of 1,000,000 megohms. Materials and Finishes: All parts utilize non-corrosive materials as standard. Clips and Rotors: Brass with silver plate as standard. Insulation: Glass epoxy, or ceramic. Index: Dual-ball, hill and valley 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.

Hardware: Mounting nut and lockwasher are shipped assembled.

STANDARD PART NUMBER

	S EPOXY INS			CHES - 30° INDE				C INSULATIO		SWITCHES - 3			
ADJUS	FABLE STOPS -	SOLDER LUC	G TERMINALS -	STOPS SET @ 2	POS.		ADJUSTA	BLE STOPS - SO	DLDER LUG T	ERMINALS - ST	FOPS SET @ 2 P	POS.	
	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	à		
06	02-03	3	2	D7G0603S	D7G0603N	DM	01	02-06	1	1		D7C0106N-6	60 DK
06	02-11	1	6	D7G0611S	D7G0611N	DA	02	02-06	1	2		D7C0206N-6	60 DK
08	02-05	2	4	D7G0805S	D7G0805N	DH	03	02-06	1	3		D7C0306N-6	60 DK
09	02-03	3	3	D7G0903S	D7G0903N	DM	04	02-06	1	4		D7C0406N-6	60 DK
10	02-05	2	5	D7G1005S	D7G1005N	DH	05	02-06	1	5		D7C0506N-6	60 DK

* FIGURES ARE SHOWN ON PAGES 55 AND 56.



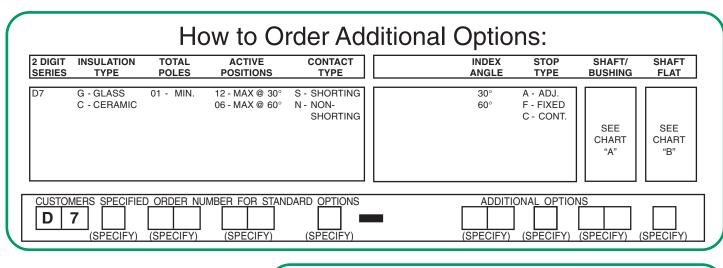
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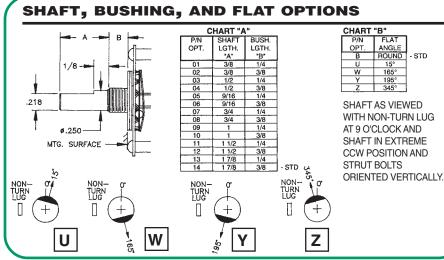
2010 Yonkers Road Raleigh, NC 27604

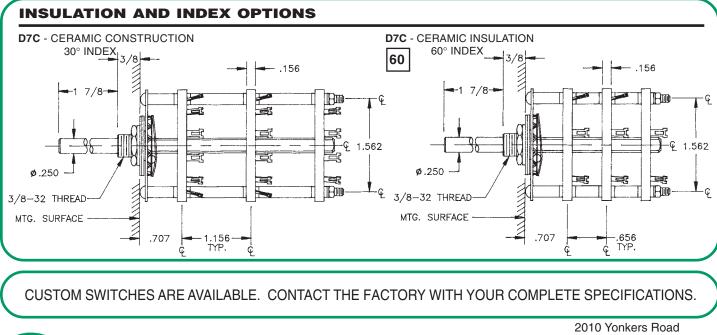
UNIT OF ELECTRO SWITCH CORP.

D7 - SERIES

ADDITIONAL OPTIONS AND ORDERING INFORMATION







ELECTROSWITCH • ELECTRONIC PRODUCTS UNIT OF ELECTRO SWITCH CORP.

Raleigh, NC 27604

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2 5/16" DIAMETER 2.25 AMPS @ 28 VDC

D8 - SERIES

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



SPECIFICATIONS

ELECTRICAL

Current and Voltage Rating: Make and break resistive load 2.25 amps @ 28 VDC; 1.0 amp @ 115 VAC. Current Carrying Capacity: 9 amps. Dielectric Strength: 1,000 VAC between current carrying parts and ground. Contact Resistance: Average initial 5 milliohms. Insulation Resistance: In excess of 750,000 megohms.

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.

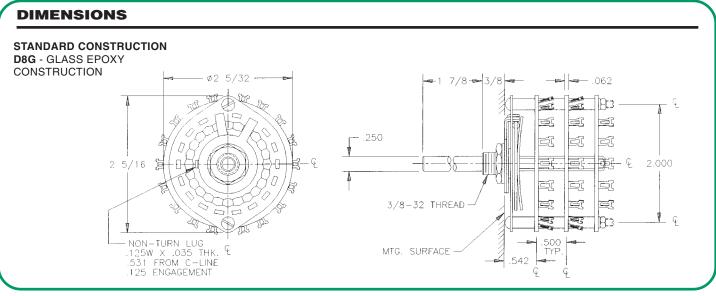
Hardware: Mounting nut and lockwasher are shipped assembled.

D STANDARD PART NUMBER

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

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

* FIGURES ARE SHOWN ON PAGE 57.



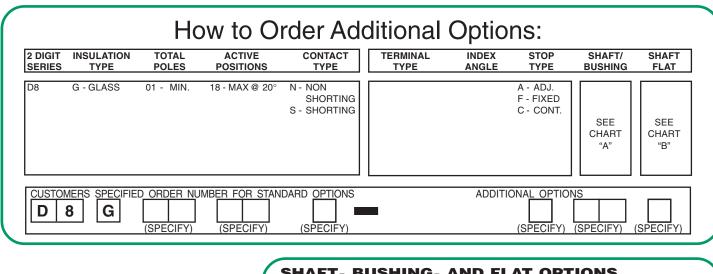
ELECTROSWITCH • ELECTRONIC PRODUCTS

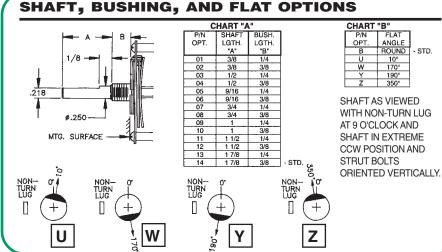
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UNIT OF ELECTRO SWITCH CORP.

D8 - SERIES

ADDITIONAL OPTIONS AND ORDERING INFORMATION





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2 5/16" DIAMETER 1.5 AMPS @ 28 VDC

D9 - SERIES

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



SPECIFICATIONS

ELECTRICAL

Current and Voltage Rating: Make and break resistive load 1.5 amps @ 28 VDC; 0.25 amp @ 115 VAC. Current Carrying Capacity: 9 amps. Dielectric Strength: 1,000 VAC between current carrying parts and ground. Contact Resistance: Average initial 5 milliohms. Insulation Resistance: In excess of 750,000 megohms.

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.

Hardware: Mounting nut and lockwasher are shipped assembled.

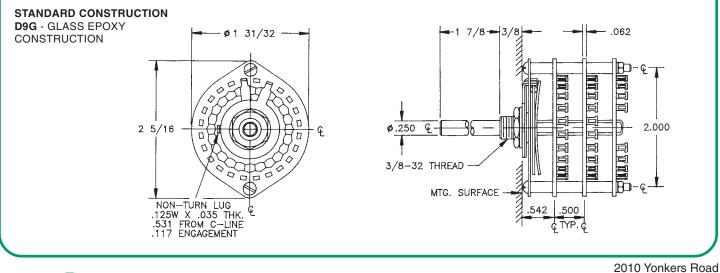
D STANDARD PART NUMBER

GLASS EPOXY INSULATIONSWITCHES - 15° INDEXINGADJUSTABLE STOPS - SOLDER LUG TERMINALS - STOPS SET @ 2 POS.

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

* FIGURES ARE SHOWN ON PAGE 57.

DIMENSIONS

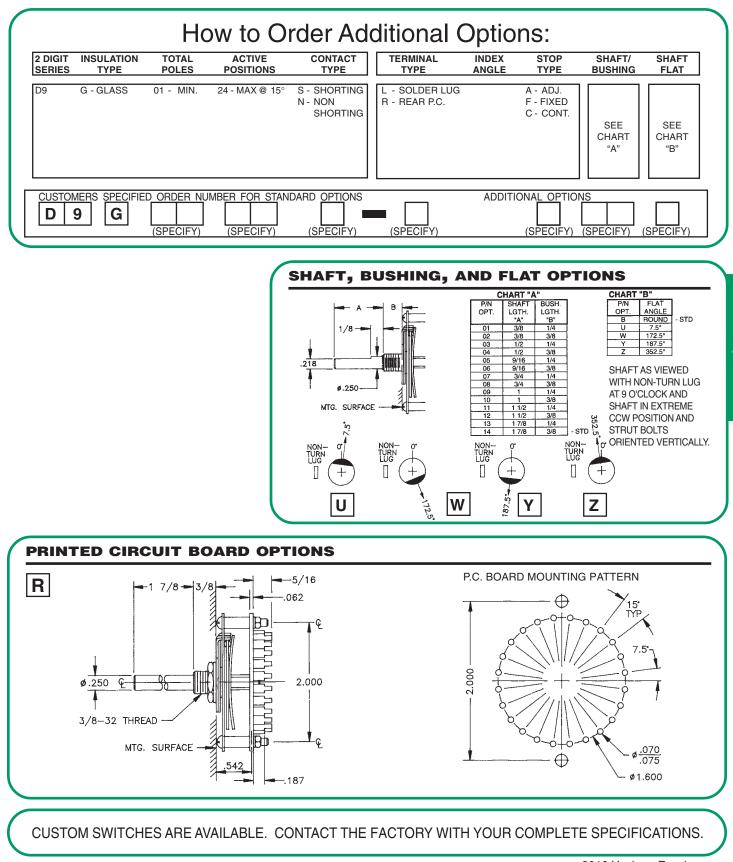


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UNIT OF ELECTRO SWITCH CORP.

D9 - SERIES



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SELECTOR GUIDE OPEN FRAME ROTARY ELECTRONIC SWITCHES



CHARACTERISTICS



SERIES E2

SERIES E1







	100		
SERIES E3	SERIES E4	SERIES E5	
39	40,41	42,43	
OPEN	OPEN	OPEN	
1.500"	2.812"	2.5 x 1.625"	
2 - 3	2 - 17	2 - 24	
0.5A @ 115 VAC	9.0A @ 115 VAC	0.25A @ 115 VAC	
1.5A @ 28 VDC	11.0A @ 28 VDC	0.55A @ 28 VDC	
9A	17A	1A	
1,500 VAC	3,000 VAC	750 VAC	
750,000	1,000,000	750,000	
3.5	7	N/A	
STANDARD	NO	STANDARD	
YES	STANDARD	NO	

	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	
Е	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)						
Т	Contact Resistance	3.5	3.5	3.5	7	N/A	
С	(milliohms)						
Α							
L							
М	Insulation - Glass Epoxy	STANDARD	STANDARD	STANDARD	NO	STANDARD	
Α	Ceramic	NO	NO	YES	STANDARD	NO	
Т							
Е							
R	-						
1	Contacts - Silver Alloy ★	YES	YES	YES	STANDARD	YES	
Α	Brass/Silver Plate	STANDARD	STANDARD	STANDARD	NO	STANDARD	
L							
М	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 °	-	-	-	_	_	
Ν	30 °	30	30	30	-	_	
Т	36 °	-	-	-	-	—	
С	45 °	-	-	-	-	-	
Α	60 °	-	-	-	-	_	
L	90 °	_	_	-	-	-	
0	Quick Connect	NO	NO	NO	NO	NO	
P	Rear PC Mount	YES	YES	YES	NO	NO	
T	Vertical PC Mount *	NO	NO	NO	NO	YES	
	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 Raleigh, NC 27604



E

UNIT OF ELECTRO SWITCH CORP.

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.

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.

E1 - SERIES

Hardware: Mounting nut and lockwasher are shipped assembled.

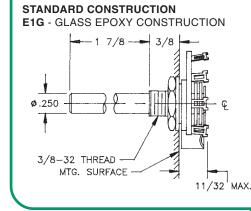
STANDARD PART NUMBER

GLASS EPOXY INSULATION

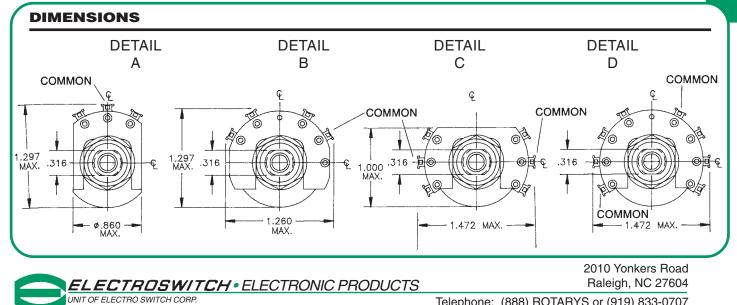
SWITCHES - 30° INDEXING - FIXED STOPS - SOLDER LUG TERMINALS

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

DIMENSIONS



E



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

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Lever Action 1.5 AMPS @ 28 VDC

E2 - SERIES

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



SPECIFICATIONS

ELECTRICAL

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

MECHANICAL

Materials and Finishes: All parts utilize non-corrosive materials as standard. Clips and Rotors: Brass with silver plate as standard. Insulation: Glass epoxy. Index: Cam and roller with coil spring. Index Life: 25,000 cycles minimum. Index Torque: Switches have lowest practical torque consistent with crisp detenting and smooth, reliable operation. Index Angles: Positive 30°, 15° and spring return. Index Stops: Fixed stops standard. Stop Strength: 25 in. lbs. minimum.

STANDARD PART NUMBER

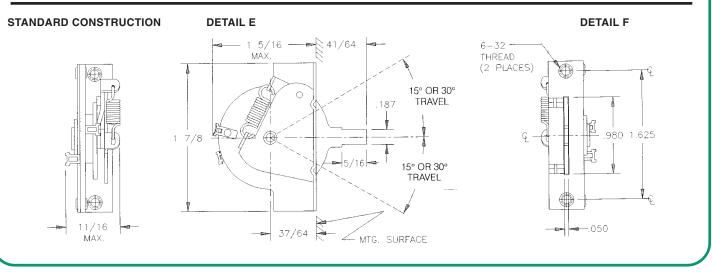
LEVER

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

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

E

DIMENSIONS



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UNIT OF ELECTRO SWITCH CORP.

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

1 1/2" DIAMETER 1.5 AMPS @ 28 VDC

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

SPECIFICATIONS

ELECTRICAL

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

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.

E3 - SERIES

Hardware: Mounting nut and lockwasher are shipped assembled.

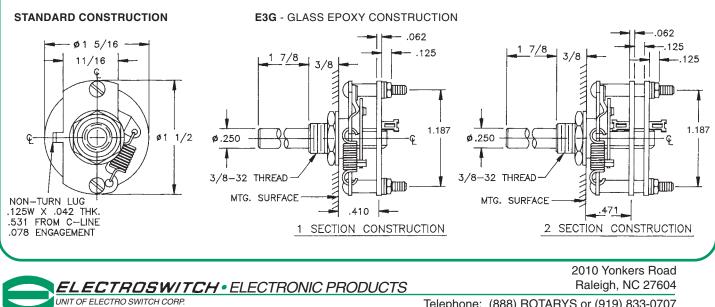
STANDARD PART NUMBER

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



39

Ε

2 13/16" DIAMETER 11.0 AMPS @ 28 VDC

E4 - SERIES

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 around.

Contact Resistance: Average initial 7.0 milliohms.

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

as standard.

MECHANICAL

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.

Materials and Finishes: All parts utilize non-corrosive materials

Hardware: Mounting nut and lockwasher are shipped assembled.

STANDARD PART NUMBER

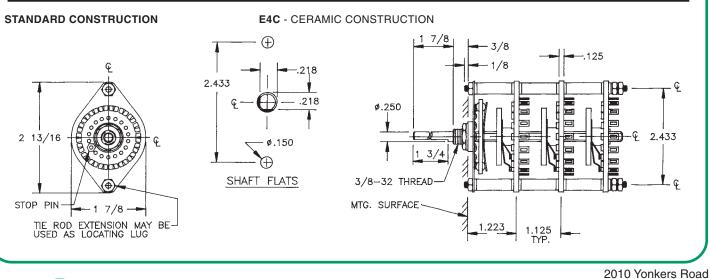
20 °	INDE)	(ING	ì.
S/V/I	TCHES		119

SWITCH	HES ADJUSTAB	LE STOPS - S	SOLDER LUG TI	ERMINALS - STC	PS SET @ 2 PO	S.							
	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	02-17	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

E

* FIGURES ARE SHOWN ON PAGE 57.

DIMENSIONS



ELECTROSWITCH • ELECTRONIC PRODUCTS

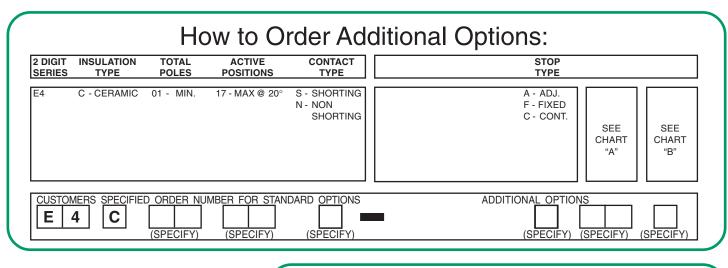
Raleigh, NC 27604

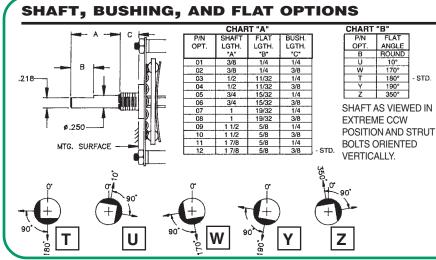
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E4 - SERIES

ADDITIONAL OPTIONS AND ORDERING INFORMATION





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ELECTROSWITCH • ELECTRONIC PRODUCTS UNIT OF ELECTRO SWITCH CORP. 2010 Yonkers Road Raleigh, NC 27604 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

E5 - SERIES

0.55 AMP @ 28 VDC

ELECTRICAL

2 1/2"

Current and Voltage Rating: Make and break resistive load 0.55 amp @ 28 VDC; 0.55 amp @ 115 VAC. Current Carrying Capacity: 1 amp. Dielectric Strength: 750 VAC between current carrying parts and ground. Insulation Resistance: In excess of 750,000 megohms.

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.

Hardware: Mounting nut and lockwasher are shipped assembled.

4

E5G0423S E5G0423N ED

STANDARD PART NUMBER

1

VERTICAL PRINTED CIRCUIT BOARD 15° INDEXING - SOLDER LUG TERMINALS - FIXED STOPS

23

04

VERTICAL PRINTED CIRCUIT BOARD

1

4

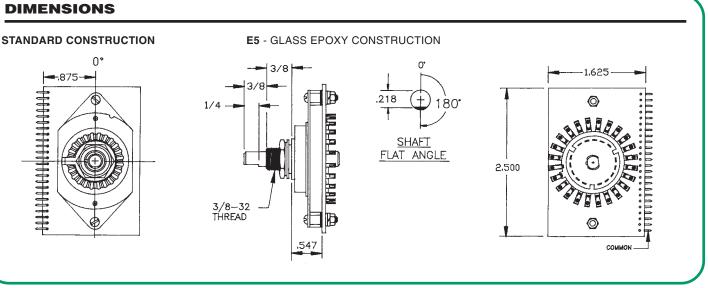
E5G0423S-C E5G0423N-C ED

13 INDL	INDEXING - SOLDEN LOG TENMINALS - TIXED STOP S							EXING - SOLDI		INALS - CON	INCOUSTICIAN		
	ACTIVE	POLES/	NO. OF	SHORTING	i NON-	FIG.		ACTIVE	POLES/	NO. OF	SHORTING	NON-	FIG.
POLES	POSITIONS	DECK	DECKS		SHORTING	i *	POLES	POSITIONS	DECK	DECKS		SHORTING	*
01	23	1	1	E5G0123S	E5G0123N	ED	01	23	1	1	E5G0123S-C	E5G0123N-C	; ED
02	23	1	2	E5G0223S	E5G0223N	ED	02	23	1	2	E5G0223S-C	E5G0223N-C	; ED
03	23	1	3	E5G0323S	E5G0323N	ED	03	23	1	3	E5G0323S-C	E5G0323N-C	; ED

04

23

* FIGURES ARE SHOWN ON PAGE 57.



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SPECIFICATIONS AND ORDERING INFORMATION

ADDITIONAL OPTIONS AND ORDERING INFORMATION

ACTIVE

TOTAL

POLES

01 - MIN.

2 DIGIT

SERIES

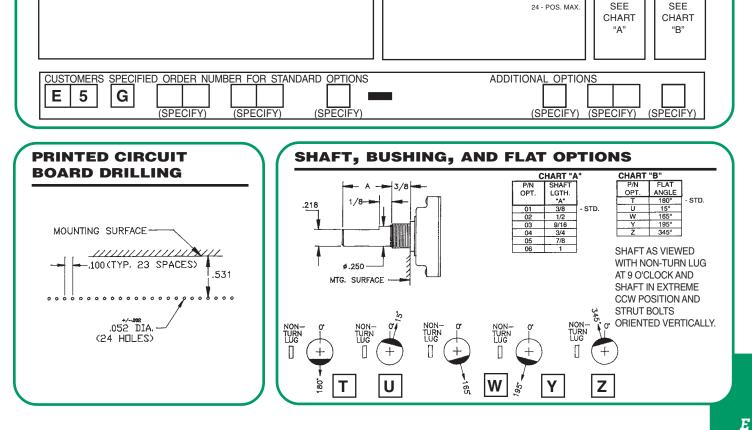
E5

INSULATION

TYPE

G - GLASS

E5 - SERIES How to Order Additional Options: CONTACT STOP SHAFT/ SHAFT POSITIONS TYPE TYPE BUSHING FLAT 23 - MAX @ 15° S - SHORTING F - FIXED N - NON 23 - POS. MAX. SHORTING C - CONT.



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Raleigh, NC 27604

ORIGINALLY DESIGNED AS MIL. SPEC. SELECTOR GUIDE ORIGINALLY DESIGNED AS MIL. SI ROTARY ELECTRONIC SWITCHES









	CHARACTERISTICS	SERIES M4	SERIES M5	SERIES M6	SERIES M7	
	Page Number	46,47	48,49	50,51	52,53	
	Construction	ENCLOSED	ENCLOSED	OPEN	OPEN	
	Diameter	1.43"	1.00"	1.75"	2.5" SQ.	
	Positions	2 - 12	2 - 12	2 - 32	2 - 48	
Е	Current and Voltage	0.35A @ 115 VAC	2.5A @ 120 VAC	0.125A @ 115 VAC	0.125A @ 115 VAC	The M4 and M5
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	Series use the
С	Dielectric Strength	1,000 VAC	1,500 VAC	1,500 VAC	1,500 VAC	enclosed frame
т	Insulation Resistance	10,000	100,000	1,000,000	1,000,000	
R	(megohms)	,	,			worksheet on
Т	Contact Resistance	5	5	10	10	page 5 for
С	(milliohms)					custom designs.
Α						custom designs.
L						
М	Insulation - Glass Epoxy	NO	NO	STANDARD	STANDARD	
A	Diallyl Phthalate	STANDARD	STANDARD	NO	NO	The M6 and M7
T						
Е						Series use the
R						open frame
	Contacts - Silver Alloy ★	STANDARD	STANDARD	STANDARD	STANDARD	worksheet on
Α	Brass/Silver Plate	NO	NO	NO	NO	
L	Gold Plate	YES	YES	YES	YES	page 45 for
М	Stop Strength	25 in. lb.	15 in. lb.	50 in. lb.	50 in. lb.	custom designs.
E	Mechanical Life	25,000 cycles	25,000 cycles	25,000 cycles	25,000 cycles	
C	Detenting Angles: 7.5°	25,000 cycles	25,000 cycles	25,000 cycles	25,000 Cycles 7.5	
Н	11.25°	_	_	11.25	7.5	
A	11.25 15°	_	_	15	15	
N	13 22.5°	_	_	22.5	15	
	22.5 30°	30	30	30	_	
C	36°	50	36	50	_	
A	55° 45°	_	45	_	_	
L	40°	_	60	_	_	
-	90°	_	90	_	_	
~	Outlete Openment	NO	NO	NO	NO	
0	Quick Connect	NO	NO	NO	NO	
P	Rear PC Mount	NO	NO	YES	NO	
T	Vertical PC Mount *	NO	NO	NO	NO	
	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	

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44

Μ

OPEN FRAME WORKSHEET

SERIES PREFERRED

ELECTRICAL REQUIREMENTS:

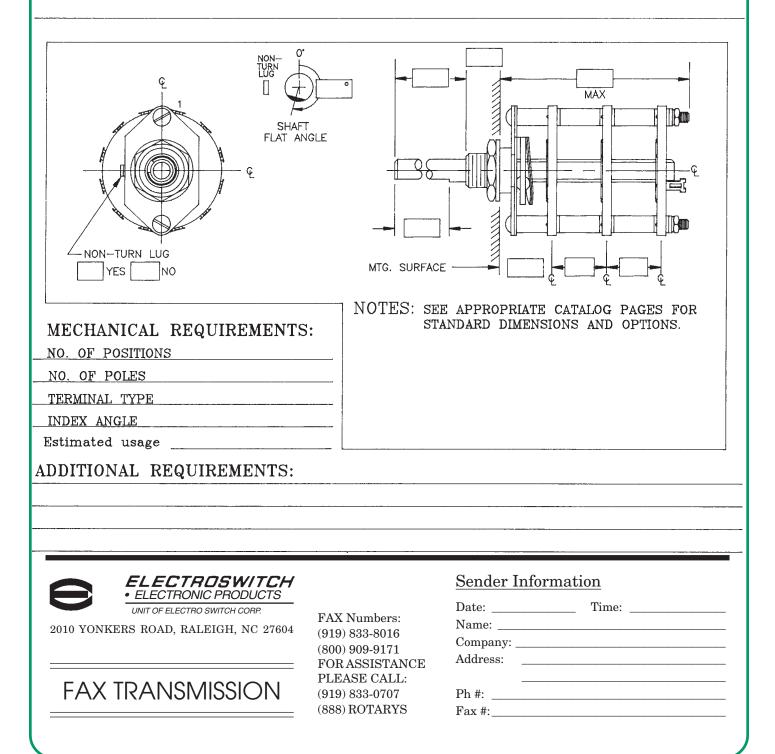
SHORTING OR NON-SHORTING

CURRENT CARRYING CAPACITY

INTERRUPTING CURRENT

MAXIMUM WORKING VOLTAGE

ADDITIONAL REQUIREMENTS:_____



M4 - SERIES 5 1.43" DIAMETER 1.0 AMP @ 28 VDC

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



SPECIFICATIONS

ELECTRICAL

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

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.

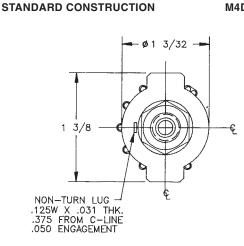
Hardware: Mounting nut and lockwasher are shipped assembled.

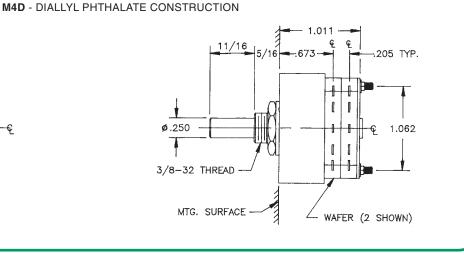
STANDARD PART NUMBER

	ER/DECK CO			SWITCHES - 30 UG TERMINALS	° INDEXING			R/DECK CON BLE STOPS SET		-	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





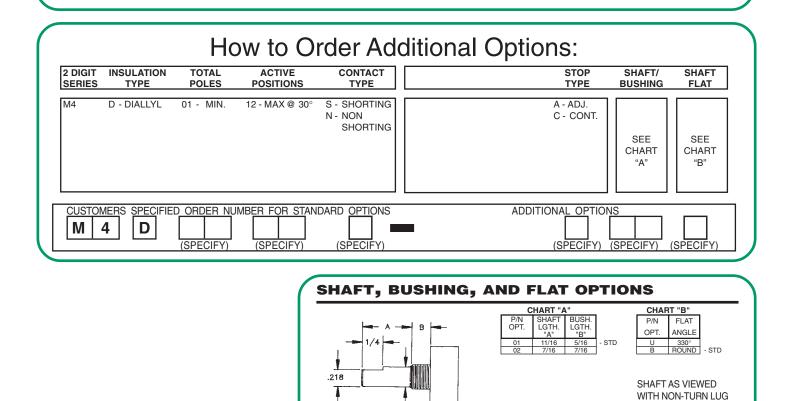
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M

M4 - SERIES

ADDITIONAL OPTIONS AND ORDERING INFORMATION



ø.250

MTG. SURFACE -

NON-TURN LUG

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2010 Yonkers Road Raleigh, NC 27604

AT 9 O'CLOCK AND

SHAFT IN EXTREME CCW POSITION AND STRUT BOLTS

ORIENTED VERTICALLY.

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

2.0 AMPS @ 28 VDC



SPECIFICATIONS

DIAMETER

M5 - SERIES

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

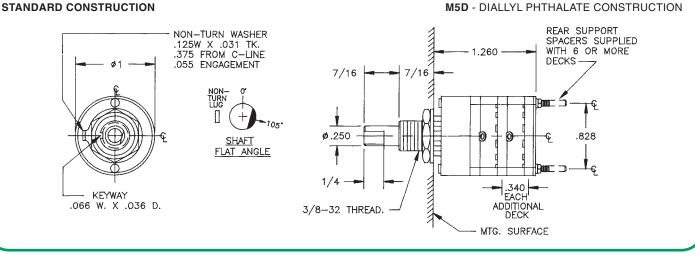
ADJUSTABLE STOPS

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

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



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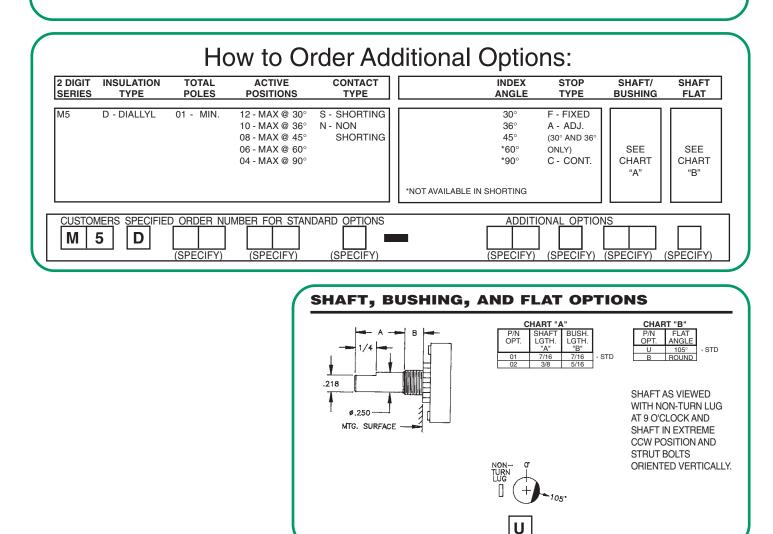
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ADDITIONAL OPTIONS AND ORDERING INFORMATION

M5 - SERIES



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1 3/4" SQUARE 0.5 AMP @ 28 VDC

M6 - SERIES

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



SPECIFICATIONS

ELECTRICAL

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

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

MECHANICAL Materials and

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.

Hardware: Mounting nut and lockwasher are shipped assembled.

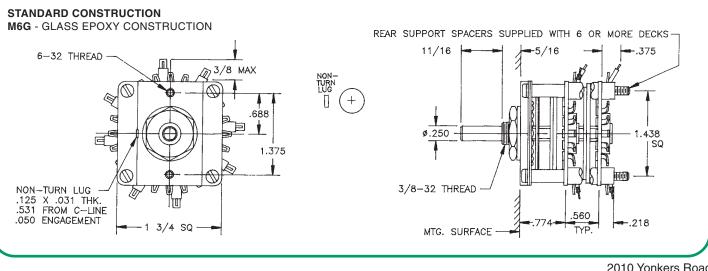
STANDARD PART NUMBER

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



ELECTROSWITCH • ELECTRONIC PRODUCTS

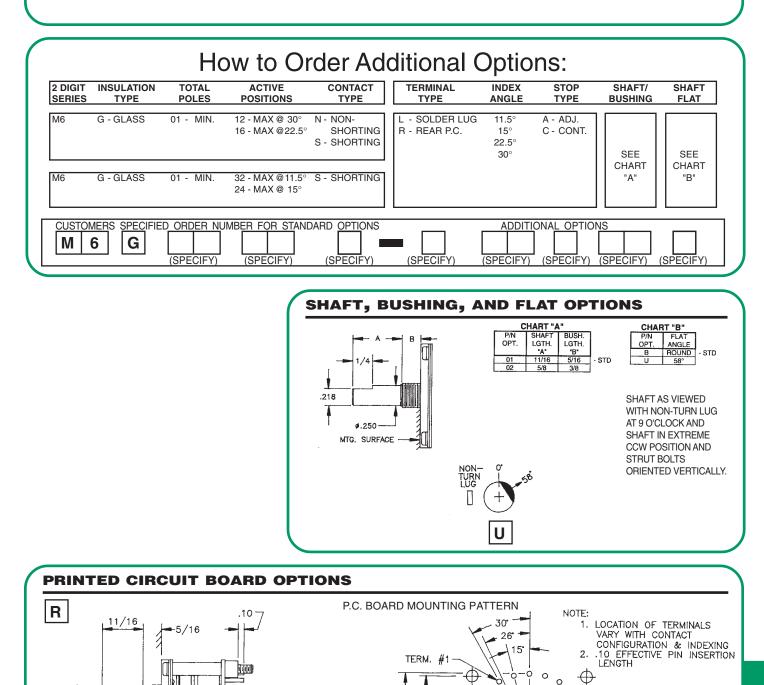
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UNIT OF ELECTRO SWITCH CORP.

50

M

M6 - SERIES



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ELECTROSWITCH • ELECTRONIC PRODUCTS UNIT OF ELECTRO SWITCH CORP.

Т

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ø.250

3/8-32

THREAD

MTG. SURFACE

ADDITIONAL OPTIONS AND ORDERING INFORMATION

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Ø.760 (COMM. TERM'S)

Ø.150 MTG. HOLES

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M7 - SERIES 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

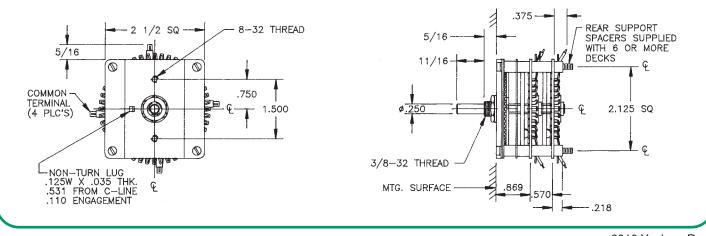
	Y GLASS INS		SOLDER LUC	SWITCHES - 15 G TERMINALS	° INDEXING			GLASS INSU BLE STOPS SE			WITCHES - 7.5° I TERMINALS	NDEXING	
POLES	ACTIVE POSITIONS	POLES/ SECTION	NO. OF SECTIONS	SHORTING	NON- SHORTING	FIG. ★	POLES	ACTIVE POSITIONS	POLES/ SECTION	NO. OF SECTIONS	SHORTING	NON- SHORTING	FIG. ★
01	02-24	1	1		M7G0124N	ME	01	02 - 48	1	1	M7G0148S-75	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							
09	02-06	3	3		M7G0906N	MG							
12	02-06	4	3		M7G1206N	MH							

* FIGURES ARE SHOWN ON PAGE 57.

DIMENSIONS



M7G - GLASS EPOXY CONSTRUCTION



ELECTROSWITCH • ELECTRONIC PRODUCTS

UNIT OF ELECTRO SWITCH CORP.

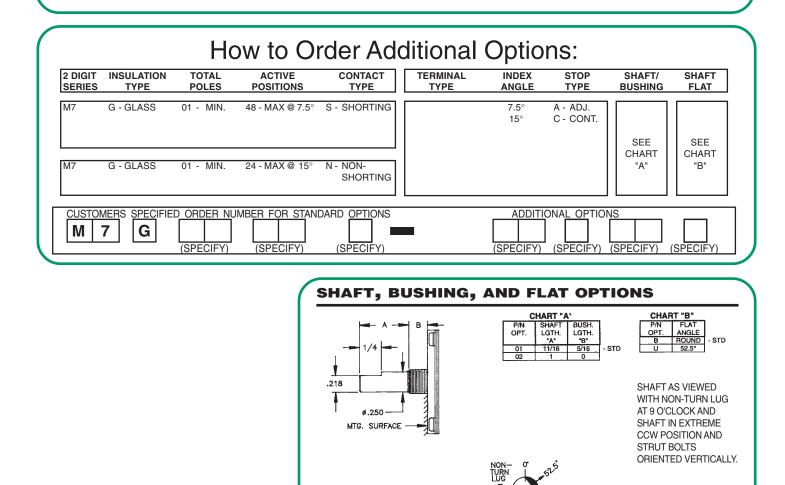
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M

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M7 - SERIES

ADDITIONAL OPTIONS AND ORDERING INFORMATION



M

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SECTION ASSEMBLIES AVAILABLE SEPARATE

(
POLES	NO. OF POSITIONS			SHORTING	NON- SHORTING PART NUMBERS	FIG.
D2D - SI	ERIES	DIALLYL PI	HTHALATE I	NSULATION		
01	02-12	1	30°	D2D-50	D2D-51	DE
02	02-06	2	30°	D2D-50	D2D-53	DL
03	2-05	3	30°	D2D-54	D2D-55	DO
05	2-03	5	30°	D2D-56	D2D-57	DR
D2C - SI	ERIES	CERAMIC I	NSULATION	1		
01	2-11	1	30°	D2C-20	D2C-21	DB
02	2-05	2	30°	D2C-22	D2C-23	DG
03	2-03	3	30°	D2C-24	D2C-25	DN
04	02	4	30°	D2C-26	D2C-27	DQ
<u>D3C - S</u>	ERIES	CERAMIC I	NSULATION	1		
01	2-11	1	30°	D3C-80	D3C-81	DA
01 02	2-11	2	30°	D3C-82	D3C-81 D3C-83	DA
	ERIES					
01	02-12	1	30°	D4C-0	D4C-1	DD
02	02-06	2	30°	D4C-2	D4C-3	DL
03	02-05	3	30°	D4C-4	D4C-5	DO
05	02-03	5	30°	D4C-6	D4C-7	DR
06 01	02 02-06	6 1	30° 60°	D4C-8 D4C-20	D4C-9 D4C-17	DS DJ
D4G - SERIES GLASS EPOXY INSULATION					Bioth	20
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 - S</u>	ERIES	CERAMIC I	NSULATION	1		
01	2-06	1	30°	D7C-SXD	D7C-XD	DI
01	2-11	1	30°	D7C-SYD	D7C-YD	DB
02	2-05	2	30°	D7C-SRRD	D7C-RRD	DF
01	2-06	1	60°	D7C-SZZD	D7C-ZZD	DK
D7G - SERIES		GLASS EPOXY INSULATION				
01	0.11	4	200			חח
01 02	2-11 2-05	1 2	30° 30°	D7G-BD D7G-SKD	D7G-JD D7G-KD	DB DH
		CERAMIC INSULATION				
01	2-17	1	20°	E4C-8	E4C-N8	EA
02	2-08	2	20°	E4C-10	E4C-N10	EB
03	02-05	3	20°	E4C-9	E4C-N9	EC

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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

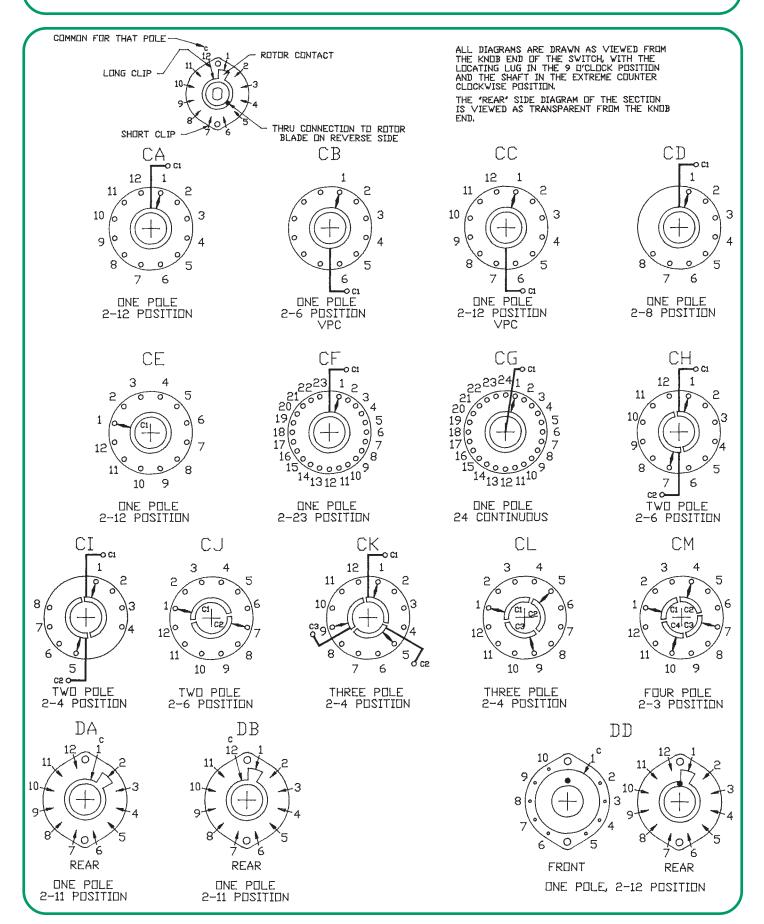
KNOBS AND DIAL PLATES

KNOBS	9					H-
Part Number	1910DG	1400R	1202BJ	1930BP	1922	1914N
Switch Type	Rotary	Rotary	Rotary	Rotary	Rotary	Rotary
Shaft Diameter	0.125	0.125	0.250	0.250	0.250	0.250
Description	Inner knob with skirt and spun silver color cap	Pointer knob with one set screw	Round knob with spun silver color cap and one set screw	Large round knob with skirt and one set screw	Outer knob for dual concentric designs	Round knob with brass insert and one set screw
Overall Length	0.75	0.82	0.75	1.50	1.06	0.75
KNOBS						
Part Number	P 2300	5149A	SSKW	SSKB		
Switch Type	Rotary	Lever	Lever	Lever		
Shaft Diameter	0.250	0.187x0.050	0.187x0.060	0.187x0.060		
Description	Pointer knob with one set screw	Oval knob push on design	Switch tip push on design-white	Switch tip push on design-black		
Overall Length	1.25	0.79	0.35 Dia.	0.35 Dia.		

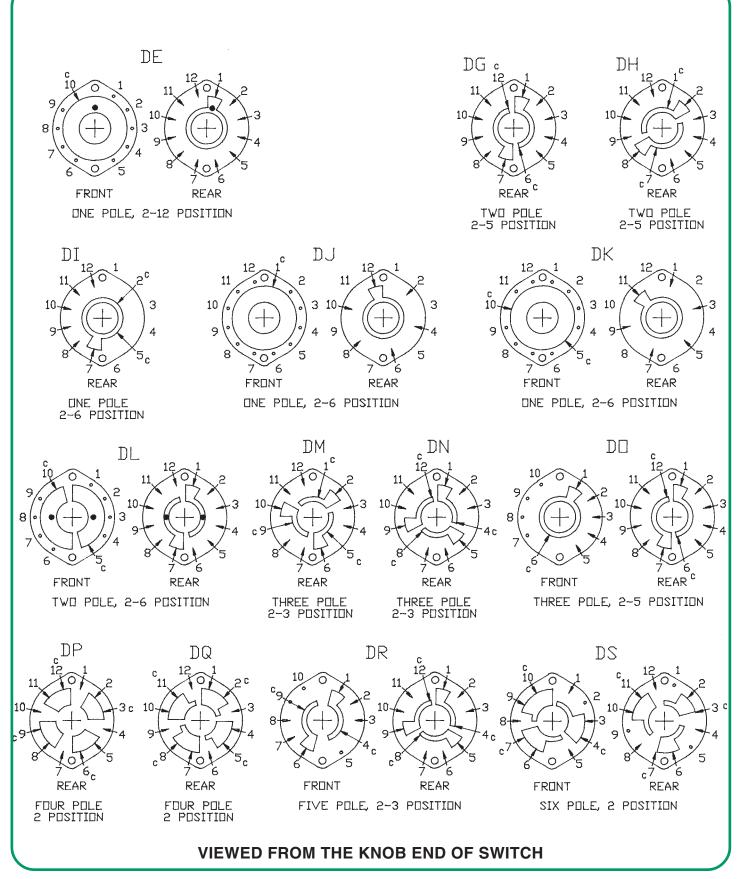
DIAL PLATES	2 10 ^{11 12} 13 14 2 10 ^{11 12} 13 14 3 10 ¹¹ 4 2 1 20 ²⁰		\bullet		•	4 5 6 7 3 0 8 2 0 9 1 10	5 6 7 8 9 2 10 1 11	5 6 7 8 4 9 3 10 2 12
Part Number	P173	P230	P232	P231*	P115	P117	P118	P112
Switch Angle	15°	20°	20°	20°	30°	30°	30°	30°
Numbering Description	1-23	1-5	1-8	1-17	1-5	1-10	1-11	1-12
Plate Diameter	1.87	2.75	2.75	2.75	1.87	1.87	1.87	1.87

* DISCONTINUED

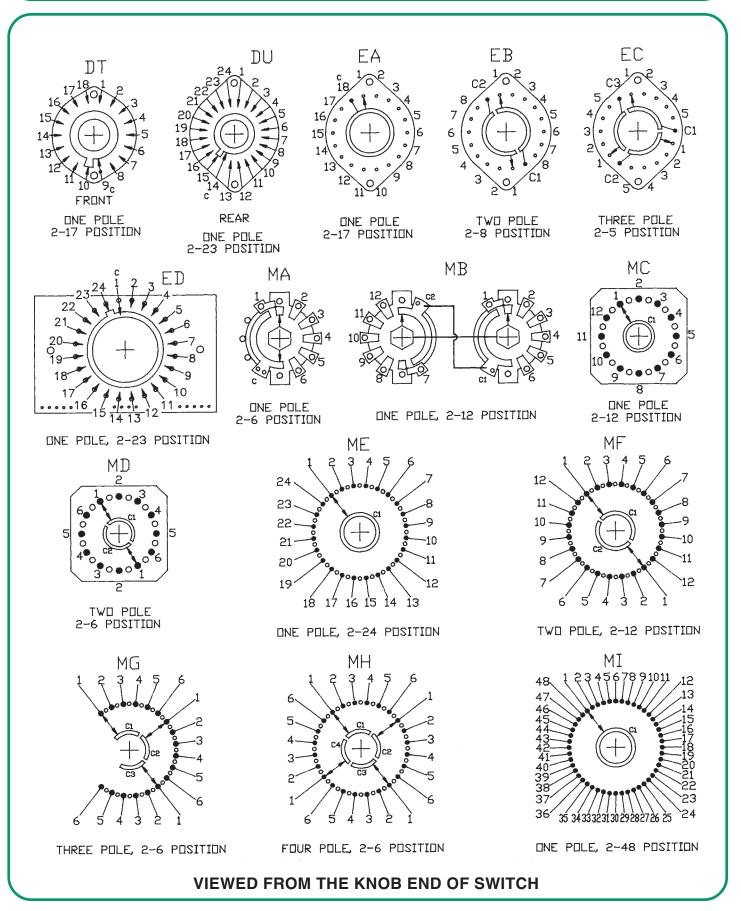
FIGURES/CIRCUIT DIAGRAMS



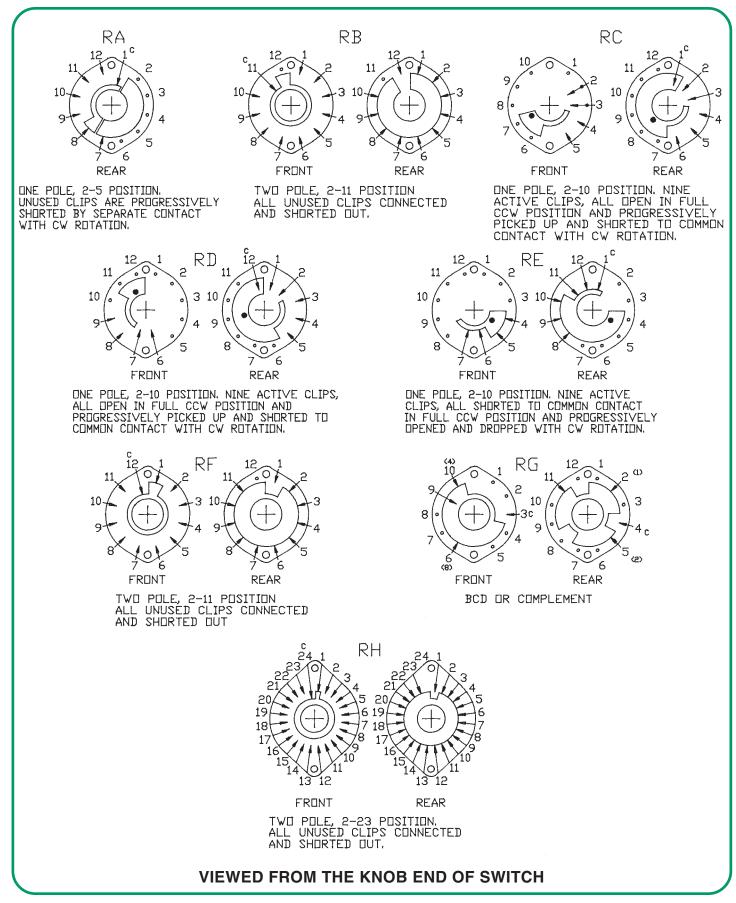
FIGURES/CIRCUIT DIAGRAMS



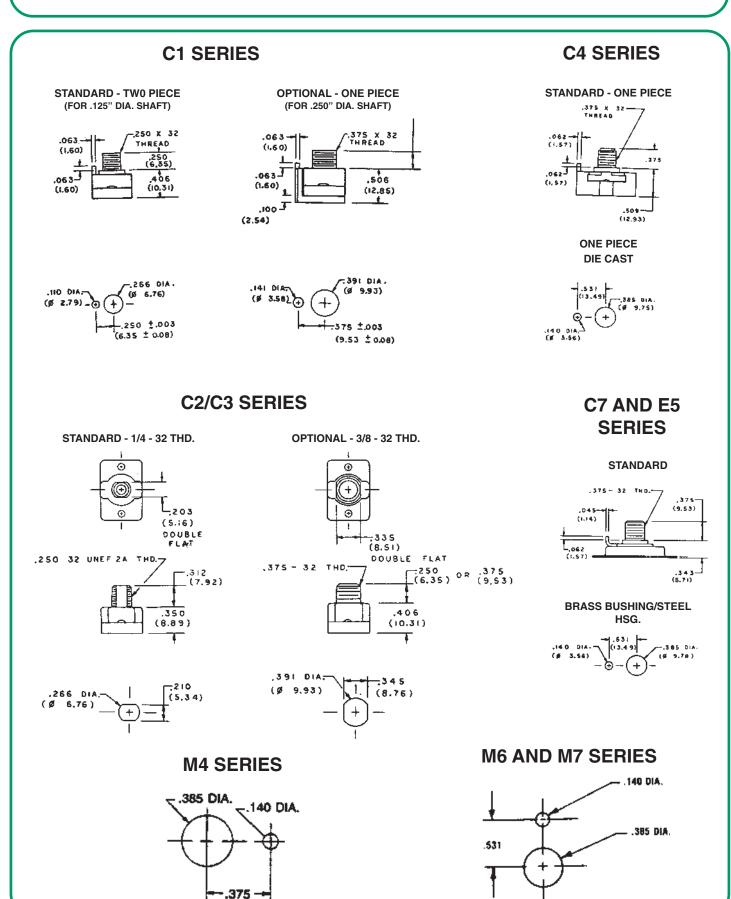
FIGURES/CIRCUIT DIAGRAMS



REFERENCE FIGURES/CIRCUIT DIAGRAMS



PANEL CUTOUTS



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°
L	· · · · · · · · · · · · · · · · · · ·

ADDITIONAL PRODUCTS & MANUFACTURERS

	NKK	Electroswitch		Grayhill	Electroswitch
Toggles:	E Series	A Series	Encoders:	62 Series	OE2 Series
	M Series	A Series		61A, B, C	OE2 Series
	M2T Series	A Series		61S, K, R	900 Series
	WT Series	WT Series		63K, R	900 Series
				25 Series	MMP/REL
Rockers:	M. Series	B Series		25L Series	700 Series
	M2T Series	WR Series			
	WR Series	WR Series	Rotaries:	42, 43	M5/C4
D 11				44, 45, 54	M5/C4
Pushbuttons:	EB Series	PS Series			
	FB Series	SA1 Series		<u>Clarostat</u>	Electroswitch
	<u>Carling</u>	Electroswitch	Encoders:	510 Series	700 Series
Toggles:	2M1 Series	A Series		600	900 Series
	2MS Series	WT Series			
				<u>Dialight</u>	Electroswitch
Rockers:	1M1 Series	B Series	Indicator	<u>Dialigiii</u> 252-9951-	LHC82
	1MS Series	WR Series	Lights:	270-1930-	MS25010A
			Lights.	800-1030-	MS25041
Pushbuttons:	3MN Series	PS Series		804-1710-	MS25041 MS25331
	3MA Series	PS Series		128-09	LC35
	<u>Grayhill</u>	Electroswitch		178-03	LC11
Toggles:	34A Series	A Series		162-09	LC12
66	34B Series	WT Series		230-03	LC25
				162-14	LC29
Rockers:	47A Series	B Series		130-09	LC33
	47B Series	WR Series			
Pushbuttons:	39-2 Series	SA1 Series			
			Solenoids	Tubular, Box	Frame, and Rotary
T 1	APEM	Electroswitch		Guar	dian
Toggles:	5000 Series	A Series		Deltr	ol Controls
	S / ST Series	WT Series		Lede	Х
Rockers:	7000 Series	D Sorias			Burgess
NUCKEIS.	7000 Series S / SR Series	B Series WR Series		Dorn	neyer
	5/ SK Selles	WK Selles			
Pushbuttons:	1800 Series	PS Series			
	800	PS			
	PB	PB			
	Bourns	Electroswitch			
Encoders:	EN Series	900 Series			
	ECW Series	700 Series			
	EAW 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 shipboard environments. This business was expanded to include nuclear reactor control and missile control applications, including sophisticated motorized units that were integrated with shipboard computer controls. Rigorous testing to military specifications such as MIL-S-6807, MIL-S-15291, MIL-S-21604 and MIL-S-24187 combined with a MIL-Q-9858 quality program ensured high quality, high reliability products.

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

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

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

About ELECTROSWITCH Electronic Products

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

