

D1 - SERIES

SPECIFICATIONS AND ORDERING INFORMATION

1" DIAMETER 0.55 AMP @ 28 VDC

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



SPECIFICATIONS

ELECTRICAL

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

Current Carrying Capacity: 7 amps.

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

Contact Resistance: Average initial 5 milliohms.

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

Hardware: Mounting nut and lockwasher are shipped assembled.

MECHANICAL

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

Clips and Rotors: Brass with silver plate as standard.

Insulation: Glass, diallyl phthalate, or ceramic.

Index: Dual-ball, side thrust design.

Index Life: 25,000 cycles minimum.

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

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

Index Stops: Adjustable standard, fixed or continuous available.

Stop Strength: 10 in. lbs. minimum.

STANDARD PART NO.

EPOXY GLASS INSULATION

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

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

CERAMIC INSULATION

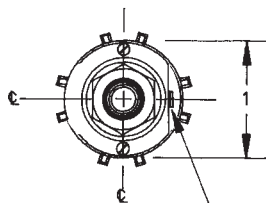
SWITCHES - SOLDER LUG TERMINALS - 30° INDEX - ADJUSTABLE STOPS SET @ 2 POS.

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

* FIGURES ARE SHOWN ON PAGES 55 AND 56.

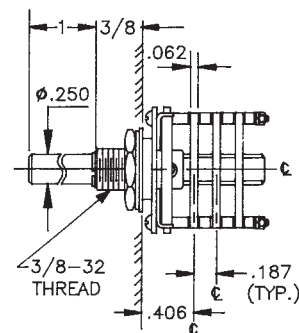
DIMENSIONS

STANDARD CONSTRUCTION

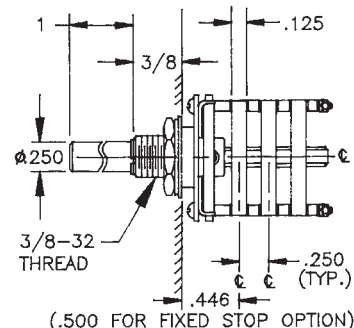


NON-TURN LUG
.125W X .035 THK.
.375 FROM C
.063 ENGAGEMENT

D1G - STANDARD GLASS EPOXY CONSTRUCTION



D1C CERAMIC INSULATION



ELECTROSWITCH • ELECTRONIC PRODUCTS
UNIT OF ELECTRO SWITCH CORP.

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2 DIGIT SERIES	INSULATION TYPE	TOTAL POLES	ACTIVE POSITIONS	CONTACT TYPE	TERMINAL TYPE	INDEX ANGLE	STOP TYPE	SHAFT/BUSHING	SHAFT FLAT
D1	G - GLASS (30°,36°,45°) D - DIALLYL (30°,45°)	01 - MIN.	12 - MAX @ 30° 10 - MAX @ 36° 08 - MAX @ 45°	S - SHORTING N - NON-SHORTING	L - SOLDER LUG R - (REAR P.C. DIALLYL ONLY)	30° 36° 45°	A - ADJ. F - FIXED (7-POS MAX @ 45°) C - CONT.	SEE CHART "A"	SEE CHART "B"
D1	C - CERAMIC	01 - MIN.	11 - MAX @ 30°	S - SHORTING N - NON-SHORTING	L - SOLDER LUG	30°	A - ADJ. F - FIXED C - CONT.		

CUSTOMERS SPECIFIED ORDER NUMBER FOR STANDARD OPTIONS

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

ADDITIONAL OPTIONS

Technical drawing of a shaft with a non-turn lug. The shaft has a diameter of $\phi .250$ and a length of $1/8$. The lug is located at the end of the shaft. The drawing shows the shaft in two views: a side view and an end view. The side view shows the shaft with a diameter of $\phi .250$ and a length of $1/8$. The end view shows the shaft with a diameter of $\phi .250$ and a length of $1/8$. The lug is located at the end of the shaft. The drawing is labeled "MTG. SURFACE" and "SHAFT AS VIEWED WITH NON-TURN LUG AT 9 O'CLOCK AND SHAFT IN EXTREME CCW POSITION AND STRUT BOLTS ORIENTED VERTICALLY."

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

CHART "B"

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

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

D1C - STD.
D1G - STD.

U W Y Z

D1D
DIALLYL PHTHALATE INSULATION

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

- 1**: Dimension from the end of the bolt to the center of the nut.
- 3/8**: Dimension from the center of the nut to the center of the washer.
- .080**: Thickness of the washer.
- 0.250**: Diameter of the bolt.
- 3/8-32 THREAD**: Thread specification of the bolt.
- MTG. SURFACE**: Mounting surface.
- 0.812**: Diameter of the washer.
- 0.234 (TYP.)**: Typical dimension from the center of the washer to the center of the bolt.
- 0.445**: Dimension from the center of the bolt to the center of the washer.

Technical drawing of a bolt and nut assembly. The bolt has a diameter of $\phi .250$ and a thread specification of $3/8-32$ THREAD. The nut has a thickness of $.080$. The assembly is shown with dimensions: 1 (distance from bolt head to nut), $3/8$ (nut thickness), $.445$ (distance from bolt head to nut), and $.270$ (distance from nut to bolt head). The bolt head diameter is $\phi .250$. The nut is labeled $3/8-32$ THREAD.



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