

D2 - SERIES

1" DIAMETER 0.55 AMP @ 28 VDC

SPECIFICATIONS AND ORDERING INFORMATION

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



SPECIFICATIONS

ELECTRICAL

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

Current Carrying Capacity: 7 amps.

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

Contact Resistance: Average initial 5 milliohms.

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

Hardware: Mounting nut and lockwasher are shipped assembled.

MECHANICAL

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

Clips and Rotors: Brass with silver plate as standard.

Insulation: Diallyl phthalate, glass, or ceramic.

Index: Dual-ball, side thrust design.

Index Life: 25,000 cycles minimum.

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

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

Index Stops: Adjustable standard, fixed or continuous.

Stop Strength: 10 in. lbs. minimum.

STANDARD PART NUMBER

DIALLYL PHTHALATE INSULATION - ADJUSTABLE STOPS

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

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

CERAMIC INSULATION - ADJUSTABLE STOPS

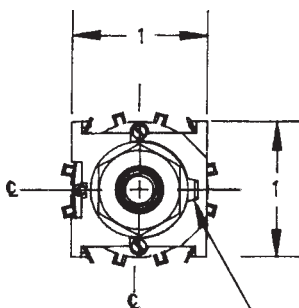
SWITCHES - SOLDER LUG TERMINALS - 30° INDEX - SET @ 2 POS. - 1/8 DIA. SHAFT

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

* FIGURES ARE SHOWN ON PAGES 55 AND 56.

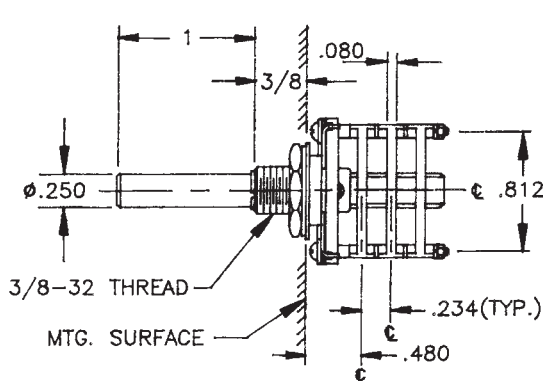
DIMENSIONS

STANDARD CONSTRUCTION

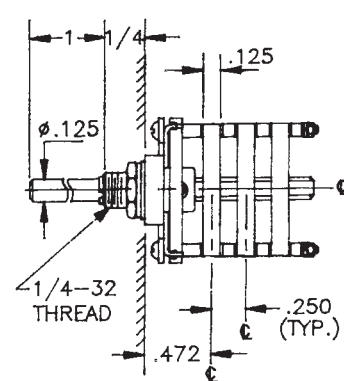


NON-TURN LUG
.125W X .035 THK.
.375 FROM ϵ
.063 ENGAGEMENT

D2D DIALLYL PHTHALATE INSULATION



D2C CERAMIC INSULATION



ELECTROSWITCH • ELECTRONIC PRODUCTS
UNIT OF ELECTRO SWITCH CORP.

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D2G
GLASS EPOXY INSULATION

Dimensions and components shown in the drawing:

- Overall length: 1
- Probe length: 3/8
- Probe diameter: $\phi .250$
- Probe thread: 3/8-32 THREAD
- Insulation thickness: .062
- Insulation diameter: $\phi .441$
- Insulation diameter (typical): .187 (TYP.)
- Probe tip diameter: $\phi .187$

Technical drawing of a shaft with a non-turn lug. The drawing shows a shaft with a diameter of $\phi .250$ ($\phi .125$) and a length of $1/8$. The shaft is mounted on a base with a mounting surface (MTG. SURFACE). The dimensions are labeled A, B, and C. The shaft is shown in two views: a side view and a top view. The top view shows the shaft with a non-turn lug and a diameter of $\phi .250$ ($\phi .125$). The side view shows the shaft with a diameter of $\phi .250$ ($\phi .125$) and a length of $1/8$. The shaft is shown in two views: a side view and a top view. The top view shows the shaft with a non-turn lug and a diameter of $\phi .250$ ($\phi .125$). The side view shows the shaft with a diameter of $\phi .250$ ($\phi .125$) and a length of $1/8$.

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

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

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

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

D2C - STD.
D2D - STD.

U 15°
W 165°
Y 195°
Z 345°

REAR P.C. DIALLYL ONLY

VERTICAL P.C.

Technical drawings showing dimensions for the rear and vertical pin connections. The rear view includes a side view of the pin assembly and a circular top view of the pin array. The vertical view includes a side view of the pin array and a detail of the pin spacing.

Key dimensions and features:

- REAR P.C. DIALLYL ONLY:**
 - Side view: 1" total length, 3/8" pin diameter, .080" pin thickness, 3/8-32 THREAD, .480" base width, .270" pin offset.
 - Top view: Circular array of 12 holes, .812" diameter, .047" hole diameter, 32° and 29° angles, .531R radius.
- VERTICAL P.C.:**
 - Side view: 1.250" total height, .500" pin diameter, .046" pin thickness, .100" pin offset, .117" base width.
 - Detail: .550" total height, .100" (TYP.) pin offset, .059" hole diameter (12 HOLES).



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21