



THE SERIES 1800 ENCLOSED SWITCH IS DESIGNED FOR DEMANDING USAGE IN AIRCRAFT, MEDICAL AND INDUSTRIAL CONTROLS AND INSTRUMENTATION, ELECTRONIC EQUIPMENT AND CRITICAL ORDNANCE APPLICATIONS.



The 1800 Series is designed for low level current (10 mA) @ (30mV) DC or peak AC, as well as standard ratings. It is available with either solder lug or printed circuit terminals.

Certified test reports available on request.

The Innovative Switch Company

The ultimate in a one-half inch rotary selector switch, the Cole series 1800 is engineered to meet or exceed applicable MIL-DTL-3786, style SR20 requirements. A QPL version is also available. Tested per MIL-STD-202 as follows:

- THERMAL SHOCK PER MIL-STD-202; METHOD 107, TEST CONDITION "B"
- VIBRATION PER MIL-STD-202; METHOD 204, TEST CONDITION "B"
- MEDIUM SHOCK PER MIL-STD-202; METHOD 213
- HIGH SHOCK PER MIL-STD-202; METHOD 207
- MOISTURE RESISTANCE PER MIL-STD-202; METHOD 106
- EXPLOSION PROOF PER MIL-STD-202; METHOD 109
- SALT SPRAY PER MIL-STD-202; METHOD 101, CONDITION "B"

The series 1800 is available with 1 pole, 2-10 positions and 2 pole, 2-5 positions. Available in standard solder lug or PC terminals, the Cole Series 1800, with its unique design, renders the switch resistant to water, contaminants, and most solvents.

Quality construction, using materials that meet the strictest standards, allows these subminiature switches to combine high current switching capacity with constant low contact resistance. Exceedingly stringent inspection and testing procedures ensure long life and high reliability. QPL Rated switching life of 25,000 cycles.

1800 SERIES

Half Inch Enclosed Rotary Switches

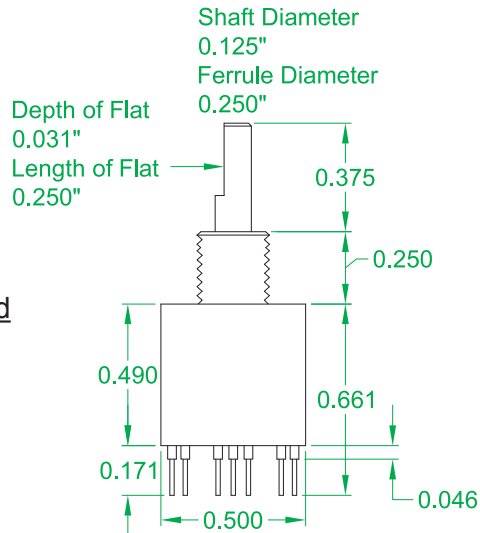
The full QPL'd MIL switch is commercially available, as are all these configurations:

- M1800 Standard (page 18)
- 1800 Standard Solder Lug Terminals (page 4)
- 1800 Standard 0.250 inch dia. shaft (page 5)
- 1800 Standard Screwdriver shaft (page 4)
- 1800 Standard 0.250 screwdriver shaft (page 5)
- 1800 Push/Pull (page 6)
- 1800 Spring Return (page 8)
- 1800 Condensed body (page 14)
- C1800 Plastic Housing (page 15,16)

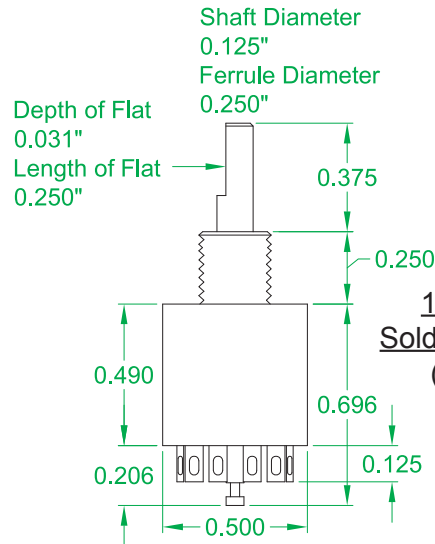
1800 SERIES

Half Inch Enclosed Rotary Switches

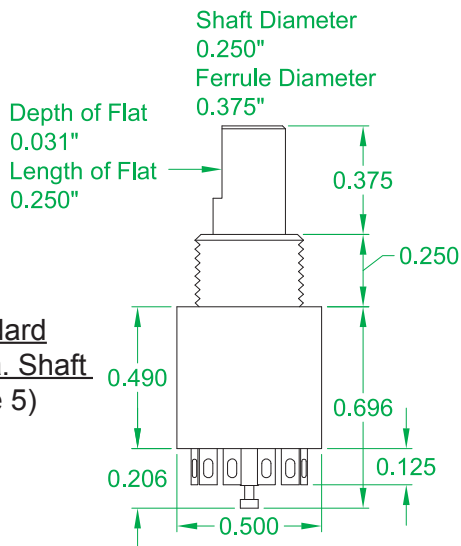
M1800 Standard
(See Page 18)



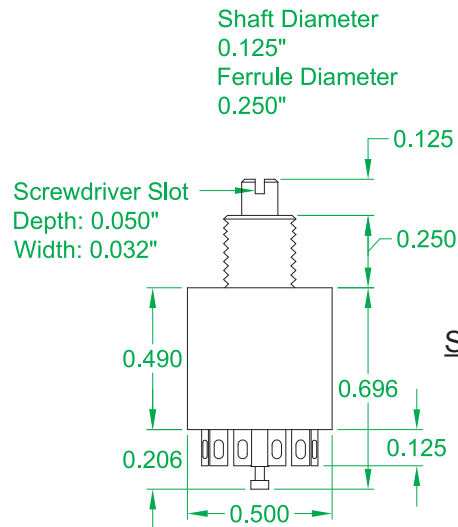
1800 Standard
Solder Lug Terminals
(See Page 4)



1800 Standard
0.250 inch Dia. Shaft
(See Page 5)



1800 Standard
Screwdriver Shaft
(See Page 4)



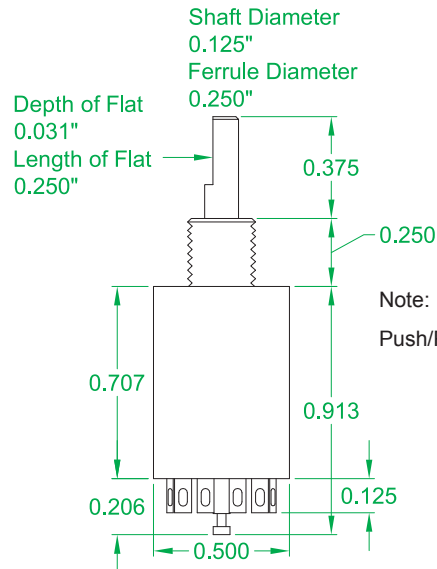
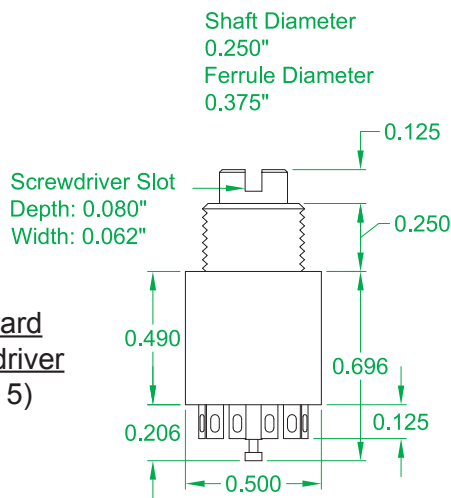
NOTES:

- 1800 Standard, Solder Lug Terminals - .125 Shaft Dia., .250 Ferrule Dia., .500 Body Dia., No Panel Seal, (See Page 4).
- 1800 Standard - 0.250 Shaft - .250 Shaft Dia., .375 Ferrule Dia., .500 Body Dia., Panel Seal, (See Page 5).
- 1800 Standard - Screwdriver Shaft - .125 Shaft Dia., .250 Ferrule Dia., .500 Body Dia., Panel Seal, (See Page 4).
- M1800 Series - .125 Shaft Dia., .250 Ferrule Dia., .500 Body Dia., No Panel Seal, (See Page 18).

1800 SERIES

Half Inch Enclosed Rotary Switches

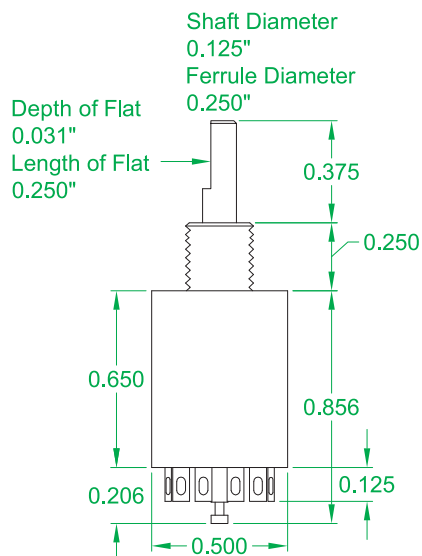
**1800 Standard
0.250 Screwdriver**
(See Page 5)



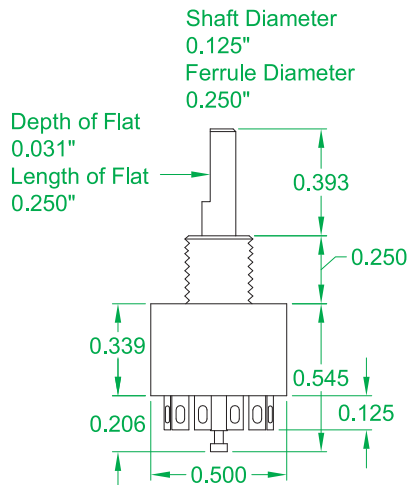
Note:

Push/Pull Shaft Travel = 0.070 inch

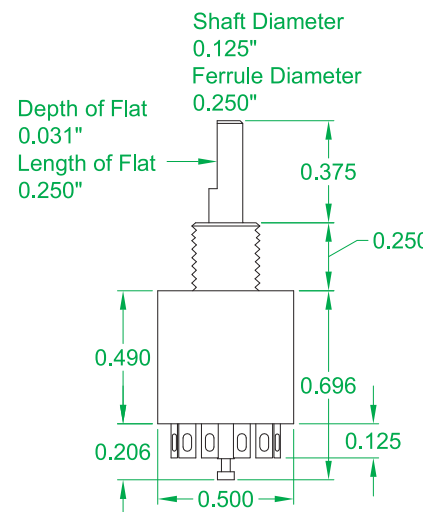
1800 Push/Pull
(See Page 6)



1800 - Spring Return
(See Page 8)



1800 Condensed
(See Page 14)



C1800 Plastic Housing
(See Page 15 and 16)

NOTES:

1800 Standard - 0.250 Screwdriver - .250 Shaft Dia., .375 Ferrule Dia., .500 Body Dia., No Panel Seal, (See Page 5).

1800 Push/Pull - .125 Shaft Dia., .250 Ferrule Dia., .500 Body Dia., No Panel Seal, (See Page 6).

1800 Spring Return - .125 Shaft Dia., .250 Ferrule Dia., .500 Body Dia., Panel Seal, (See Page 8).

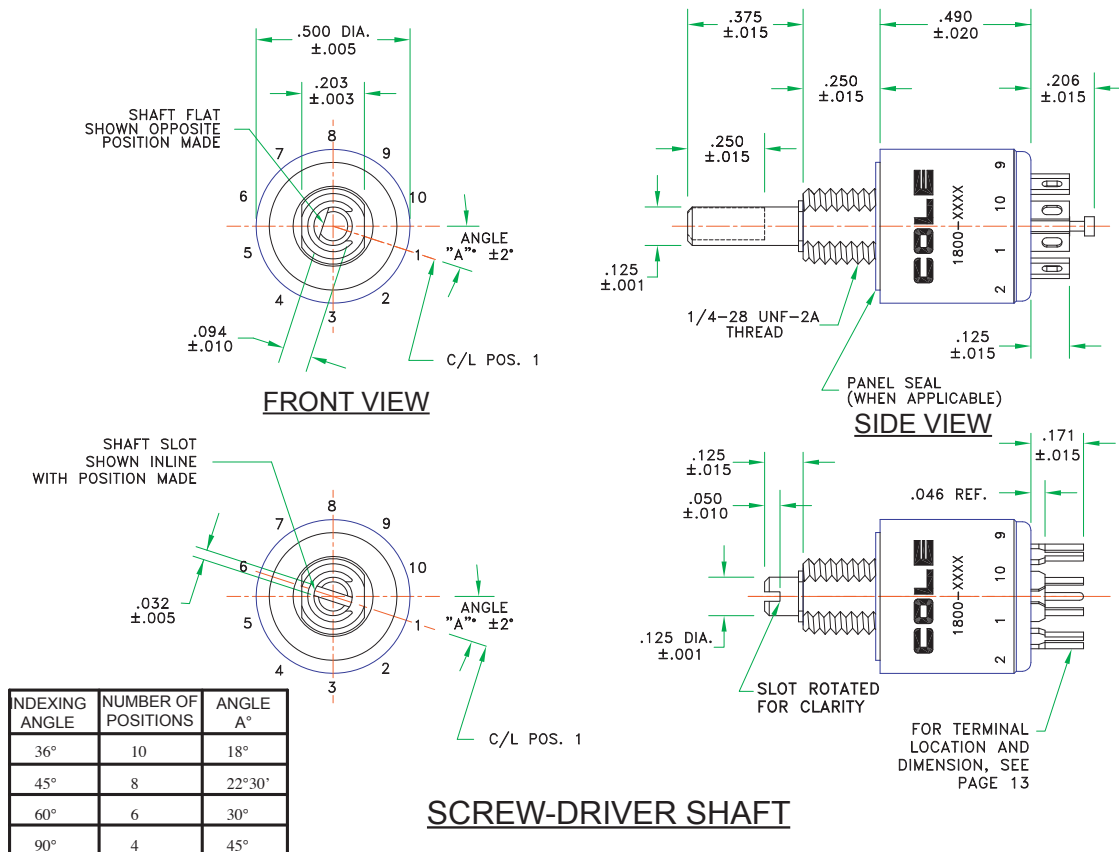
1800 Condensed - .125 Shaft Dia., .250 Ferrule Dia., .500 Body Dia., Panel Seal, (See Page 14).

C1800 Plastic Housing - .125 Shaft Dia., .250 Ferrule Dia., .500 Body Dia., Panel Seal, (See Page 15 and 16).

1800 SERIES

Half Inch Enclosed Rotary Switches

1800 STANDARD - .125 inch Shaft Diameter



PART NUMBER ORDERING EXAMPLES

18 36 -1 04-****

Alphabetical
Designation for options
Number of Positions
Number of Poles
Degrees Between Positions
Cole Basic Switch Number

18 36 -1 04 -CPS

is a Part Number for a 1800, 1/8" dia. shaft, 36° indexing, 1 pole per deck, 4 positions per pole, shorting contacts shaft and panel seals, and PC terminals.

18 45-2 02 -GQ

is a Part Number for a 1800, 1/4" dia. shaft, 45° indexing, 2 poles per deck, 2 positions per pole, non-shorting contacts, RFI-EMI shielding, and solder lug terminals.

OPTIONS

The following options can be added to the standard switch. When ordering, simply add the letters after the basic part number.

Options listed in alphabetical order only.

A = Adjustable stops.

C = Printed circuit mounting terminals.

SD = Screwdriver shaft.

F = Fixed stop between the first and last position on a full-turn switch.

G = RFI-EMI shielding.

P = Panel and shaft seals.

Q = 1/4" diameter shaft.

S = Shorting type switch (36° Only)

T = Pre-tinned terminals.

Y = Non-turn washer.



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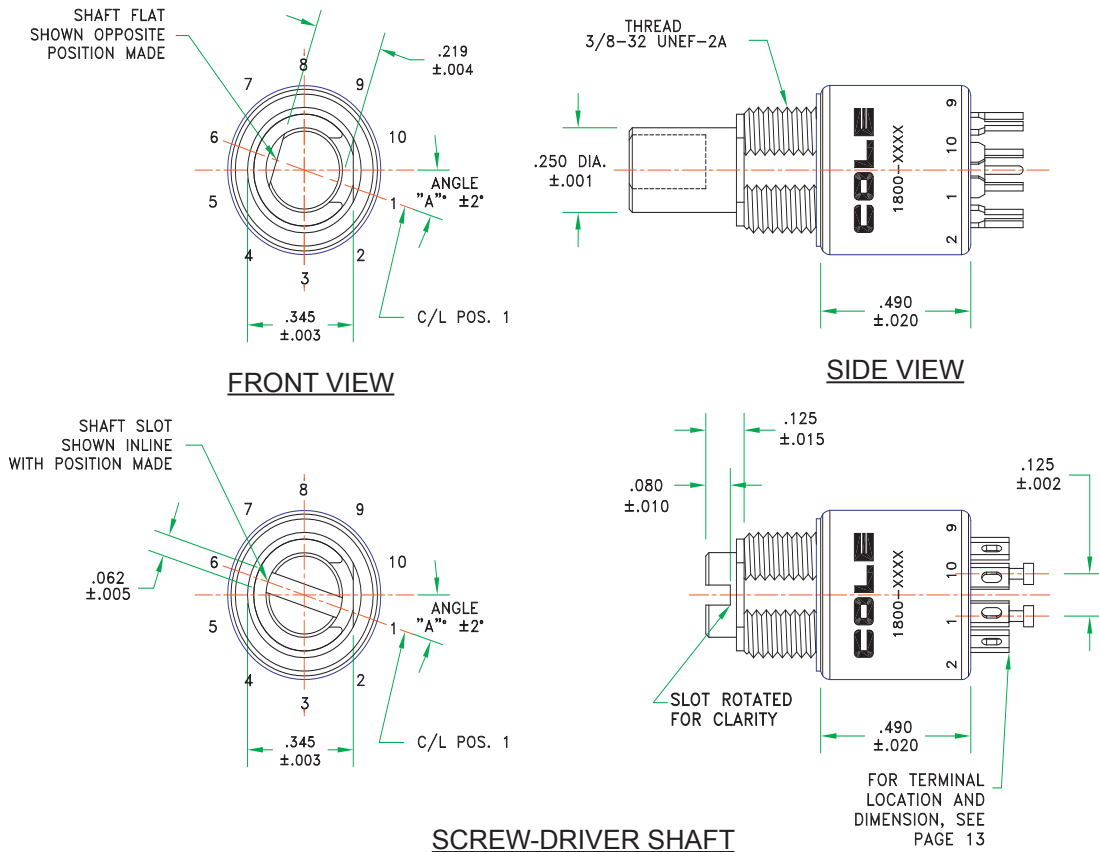
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1800 SERIES

Half Inch Enclosed Rotary Switches

1800 STANDARD - .250 inch Shaft Diameter



PART NUMBER ORDERING EXAMPLES				
18	36	-1	04	****
				Alphabetical
				Designation for options
				Number of Positions
				Number of Poles
				Degrees Between Positions
				Cole Basic Switch Number

18 36 -1 04 -CPS
is a Part Number for a 1800, 1/8" dia. shaft, 36° indexing, 1 pole per deck, 4 positions per pole, shorting contacts shaft and panel seals, and PC terminals.

18 45-2 02 -GQ
is a Part Number for a 1800, 1/4" dia. shaft, 45° indexing, 2 poles per deck, 2 positions per pole, non-shorting contacts, RFI-EMI shielding, and solder lug terminals.

OPTIONS

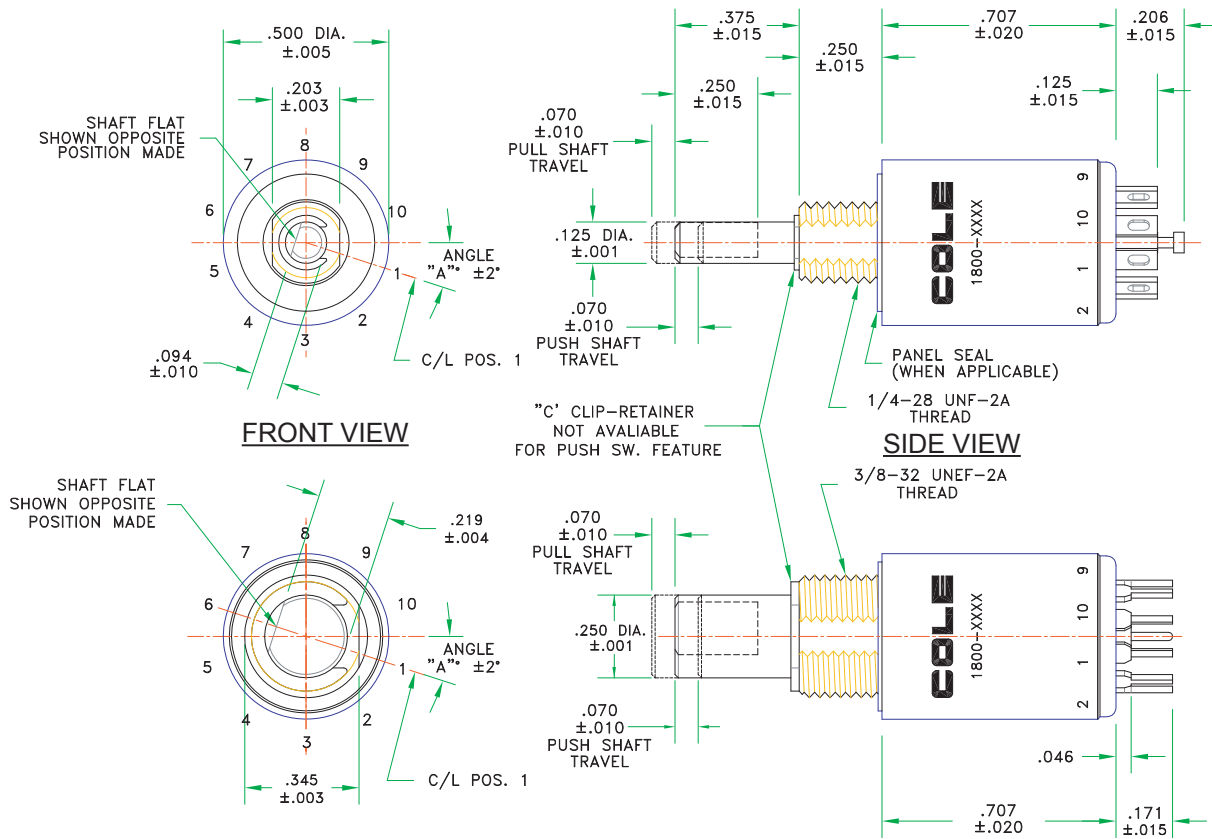
The following options can be added to the standard switch. When ordering, simply add the letters after the basic part number. Options listed in alphabetical order only.

- A = Adjustable stops.
- C = Printed circuit mounting terminals.
- SD = Screwdriver shaft.
- F = Fixed stop between the first and last position on a full-turn switch.
- G = RFI-EMI shielding.
- P = Panel and shaft seals.
- Q = 1/4" diameter shaft.
- S = Shorting type switch (36° Only)
- T = Pre-tinned terminals.
- Y = Non-turn washer.

1800 SERIES

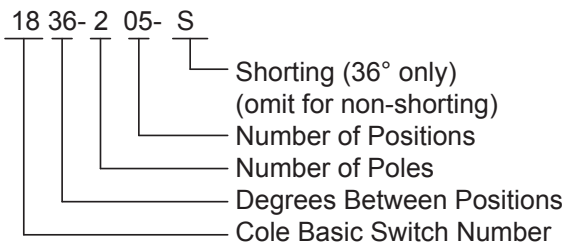
Half Inch Enclosed Rotary Switches

1800 SERIES PULL/PUSH



ORDERING INFORMATION

Begin by identifying the switch using the COLE part numbering system as shown:



Indicate this is a SPECIAL switch to ensure that no error is made when the order is entered.

Sample part number:

SPECIAL
1836 - 205 - S (See Standard Code, Page 7)
STOP1PS2PS3PS4 5STOP

This sample part number orders a series 1800 standard style switch, 36° indexing, 2 poles, 5 positions per pole shorting, and push-to turn isolation posts between positions 1-2, 2-3, and 3-4.

OPTIONS

The following options can be added to the standard switch. When ordering, simply add the letters after the basic part number. Options listed in alphabetical order only.

C = PC terminals
G = RFI-EMI shielding.
P = Panel and shaft seals.
Q = 1/4" O/A shaft
SD = Screwdriver slot.
T = Pre-tinned terminals
Y = Non-turn washer.

1800 SERIES

Half Inch Enclosed Rotary Switches

1800 ISOLATED POSITION SWITCH DESCRIPTION

A special feature of rotary switches is available known as “isolated position”. This feature allows switch shaft rotation that requires the user to either pull or push the shaft before it will respond to rotational torque. The user identifies the position or positions affected by the isolation mechanism.

Incorporation of the isolated position feature in COLE'S SERIES 1800 switches will add 0.217 inches to the length.

SPECIFYING POSITIONS

The Cole System for identifying isolation positions lets you perform the selection by inserting isolation posts next to the positions to be isolated. An 1800 series switch with 36° indexing and continuous rotation is shown below with no isolation position identified in the spaces between the terminals.

10_1_2_3_4_5_6_7_8_9_10

If you isolate positions 1, 2 and 3, the isolation post insertion points are identified by the letters PL (for actuation by pulling the shaft out), or PS (for actuation by pushing the shaft in) as shown below:

10PL1PL2PL3PL4 5 6 7 8 9 10

This indicates that you can only get to positions 1, 2 and 3 by pulling on the shaft while all other positions can be achieved with normal rotational torque on the shaft.

if A Push positions 1 and 2 are isolated from all other position but nor from each other:

10PS12PS3 4 5 6 7 8 9 10

In this case you need to push on the shaft to get to position 1 from position 10 as well as position 2 from position 3. However, to get from position 1 to position 2 merely requires rotate the shaft from position 1 to 2 or 2 to 1.

As a special feature, certain positions on the switch can be isolated in unidirectional mode. That means that the positions can be achieved with normal rotation on the shaft, but requires a push or pull action to get to the next position (Ramp-In). Conversely, reaching the isolated position with a push or pull action on the shaft but requiring normal rotation (Ramp-out) for the next position, is also available. Please contact the factory for special features.

SPECIFYING STOPS

Stops must be incorporated when a switch has multiple poles or specifies less than the numbers of positions available. If a switch with 36° indexing is specified as an 8 position switch with position 1 isolated with push actuation required, the designation would be:

STOP1PS2 3 4 5 6 7 8STOP

Since the stop mechanism is inserted between positions 10 and 1, the isolation post is only required between positions 1 and 2. The stop mechanism inserted between terminals 8 and 9 serves to limit the switch to 8 positions. When stop and isolation mechanism are used in multipole switches, all poles are slaved to the first pole in the case of a 2 pole, 10 position switch with 36° indexing, isolating position 1 will automatically isolate position 6 too. (Refer to the standard switch schematics for 36° indexing switches, page No. 4



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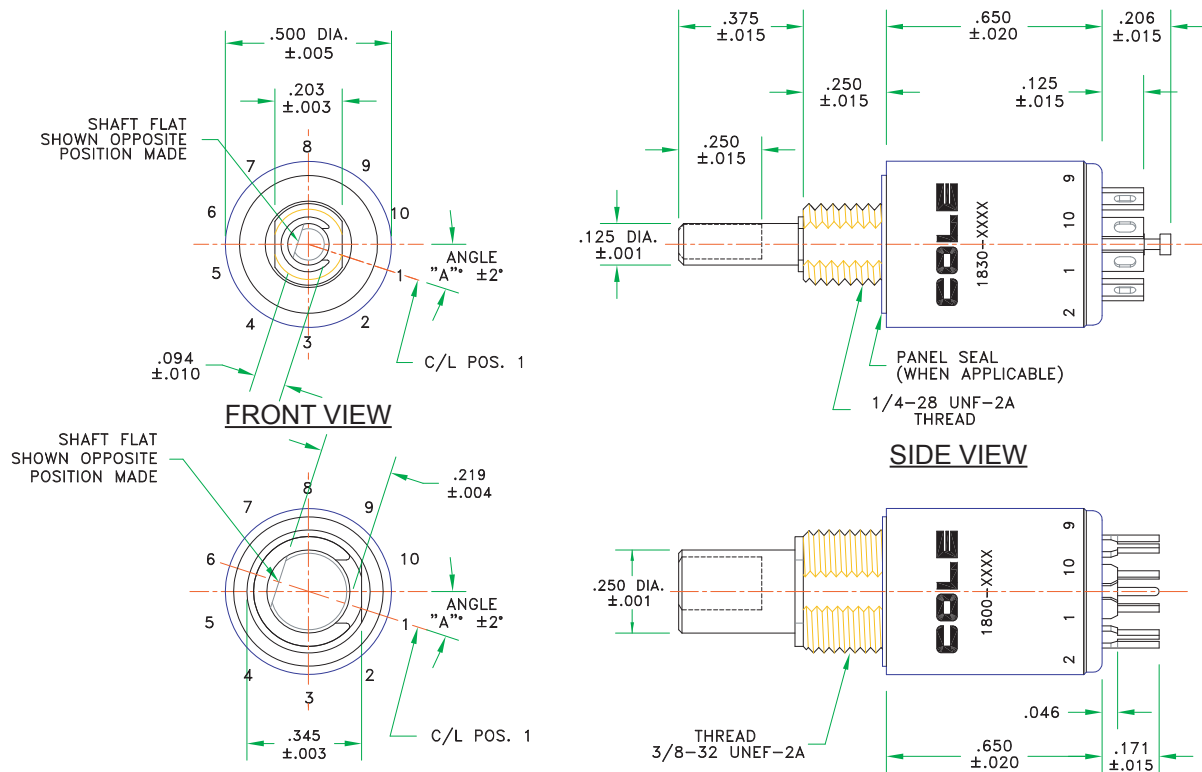
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1800 SERIES

Half Inch Enclosed Rotary Switches

1800 SERIES SPRING RETURN



NOTES:

1. Dimensions are in inches.
2. Unless otherwise specified, tolerances are ± 0.005 and $\pm 3^\circ$ on angles.
3. Shaft flat opposite position being made.
4. Switches are provided with a full circle of terminals, regardless of the number of activate positions.
5. Spring return life-cycle is 15,000 momentary cycles for the 1800 form factor.

DESCRIPTION:

A spring return rotary switch requires that manual torque be maintained at the desired switch position. Releasing the force allows the spring to return the contact to a normal, or detent positions. Arrows in the CONFIGURATIONS AND RESTRICTION TABLE indicate the direction the spring will return the contact so it assumes a normal detent position. The "D" designates a normal detent position. (See Table Page 9).

ORDERING INFORMATION

Create the part number using this example:

1866 - 2 04 - S -XX

Options
Type of contacts
S = Shorting (36° only)
N = Non-shorting
Number of Positions per Pole
Number of Poles
Part No. (See Table Page 9)

This sample part number orders a series 1800 switch with 36° indexing, momentary terminal 4 returning to terminal 3 (9 to 8 is slaved), 2 poles, 4 positions/pole, shorting contacts with options available as shown in the Table Page 9.

OPTIONS

The following options can be added to the standard switch. When ordering, simply add the letters after the basic part number. Options listed in alphabetical order only.

C = PC terminals
G = RFI-EMI shielding.
P = Panel and shaft seals.
Q = 1/4" O/A shaft
SD = Screwdriver slot.
T = Pre-tinned terminals
Y = Non-turn washer.



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1800 SERIES

Half Inch Enclosed Rotary Switches

1800 SPRING RETURN ROTARY SWITCH DESCRIPTION

A rotary switch with a spring return mechanism allows certain selected positions to have momentary action wherein they can be maintained only with positive force on the shaft. Releasing the shaft will return the switch to its previous position. This feature is available in the COLE SERIES 1800, 1830, and 3600 switches.

Addition of this mechanism to the SERIES 1800 switch adds 0.217 inches to its length; all other dimensions remain unchanged.

The spring return feature in the SERIES 1800 switch is available in those with 36° and 45° angles of throw as a standard.

Custom requirements can be accommodated by contacting the factory.

CONFIGURATIONS AND RESTRICTIONS TABLE

INDEXING	Part No.	Switch Action	No. of poles	Position Per Pole	Terminal Opposite to Flat
36° SPRING RETURN	1859	1->2	1 or 2	2	2
	1861	1<-2	1 or 2	2	1
	1862	1->2D3	1 or 2	3	2
	1863	1D2<-3	1 or 2	3	1
	1864	1->2<-3	1 or 2	3	2
	1865	1->2D3D4	1 or 2	4	2
	1866	1D2D3<-4	1 or 2	4	1
	1867	1->2D3<-4	1 or 2	4	2
	1868	1->2D3D4D5	1 or 2	5	2
	1869	1D2D3D4<-5	1 or 2	5	1
	1870	1->2D3D4<-5	1 or 2	5	2
45° SPRING RETURN	1850	1->2	1 or 2	2	2
	1851	1<-2	1 or 2	2	1
	1852	1->2D3	1 or 2	3	2
	1853	1D2<-3	1 or 2	3	1
	1854	1->2<-3	1 or 2	3	2
	1855	1->2D3D4	1 or 2	4	2
	1856	1D2D3<-4	1 or 2	4	1
	1857	1->2D3<-4	1 or 2	4	2

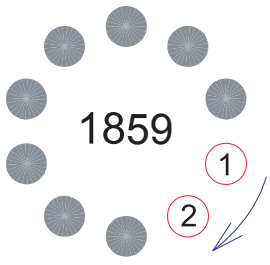
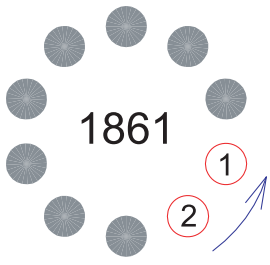
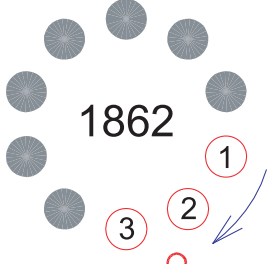
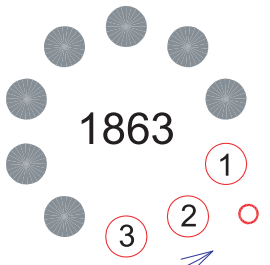
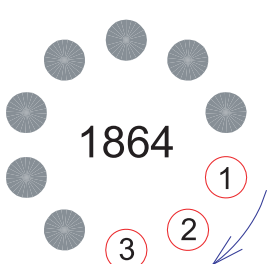
THE MAXIMUM NUMBER OF POLES PER SWITCH IS 2.

-> DIRECTION OF SPRING RETURN <-

FOR DEFFERENT REQUIREMENTS PLEASE CONTACT THE FACTORY.

1800 SERIES

Half Inch Enclosed Rotary Switches

Indexing	Part No.	Switch Action	Switch Action Description	No. of Poles	Position per Pole	Lowest Non-Momentary Position
36°	1859		1 → 2	1 or 2	2	2
36°	1861		1 ← 2	1 or 2	2	1
36°	1862		1 → 2D3	1 or 2	3	2
36°	1863		1D2 ← 3	1 or 2	3	1
36°	1864		1 → 2 ← 3	1 or 2	3	2



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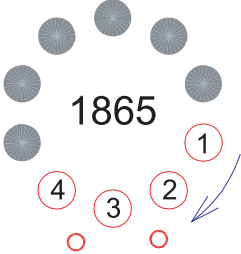
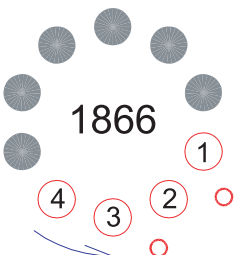
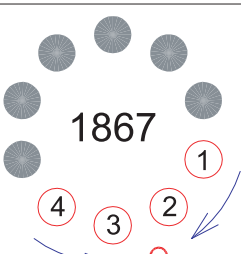
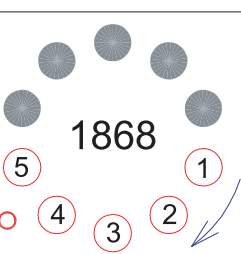
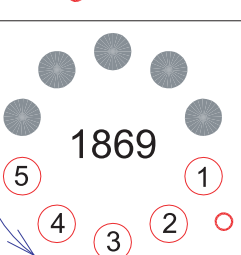
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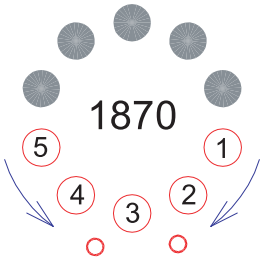
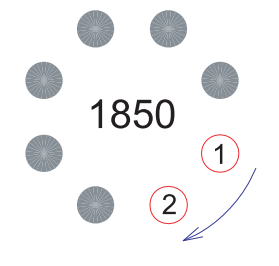
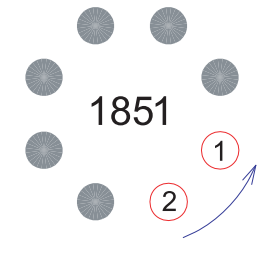
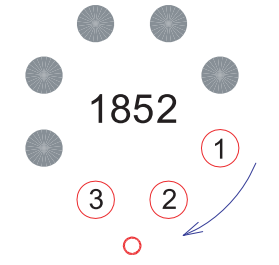
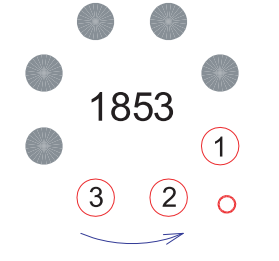
1800 SERIES

Half Inch Enclosed Rotary Switches

Indexing	Part No.	Switch Action	Switch Action Description	No. of Poles	Position per Pole	Lowest Non-Momentary Position
36°	1865		1→2D3D4	1 or 2	4	2
36°	1866		1D2D3←4	1 or 2	4	1
36°	1867		1→2D3←4	1 or 2	4	2
36°	1868		1→2D3D4D5	1 or 2	5	2
36°	1869		1D2D3D4←5	1 or 2	5	1

1800 SERIES

Half Inch Enclosed Rotary Switches

Indexing	Part No.	Switch Action	Switch Action Description	No. of Poles	Position per Pole	Lowest Non-Momentary Position
36°	1870		1→2D3D4←5	1 or 2	5	2
45°	1850		1→2	1 or 2	2	2
45°	1851		1←2	1 or 2	2	1
45°	1852		1→2D3	1 or 2	3	2
45°	1853		1D2←3	1 or 2	3	1



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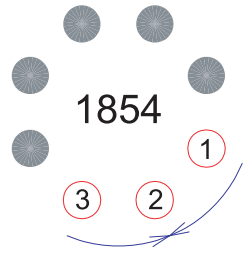
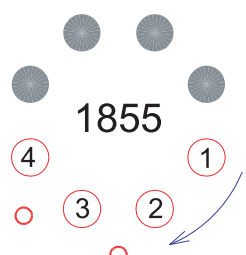
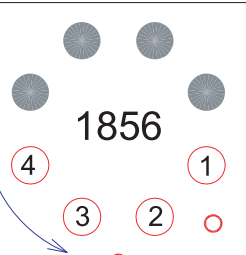
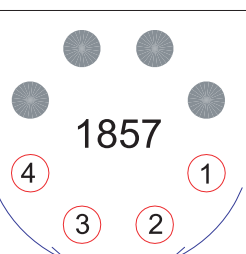
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1800 SERIES

Half Inch Enclosed Rotary Switches

Indexing	Part No.	Switch Action	Switch Action Description	No. of Poles	Position per Pole	Lowest Non-Momentary Position
45°	1854		1 → 2 ← 3	1 or 2	3	2
45°	1855		1 → 2D3D4	1 or 2	4	2
45°	1856		1D2D3 ← 4	1 or 2	4	1
45°	1857		1 → 2D3 ← 4	1 or 2	4	2



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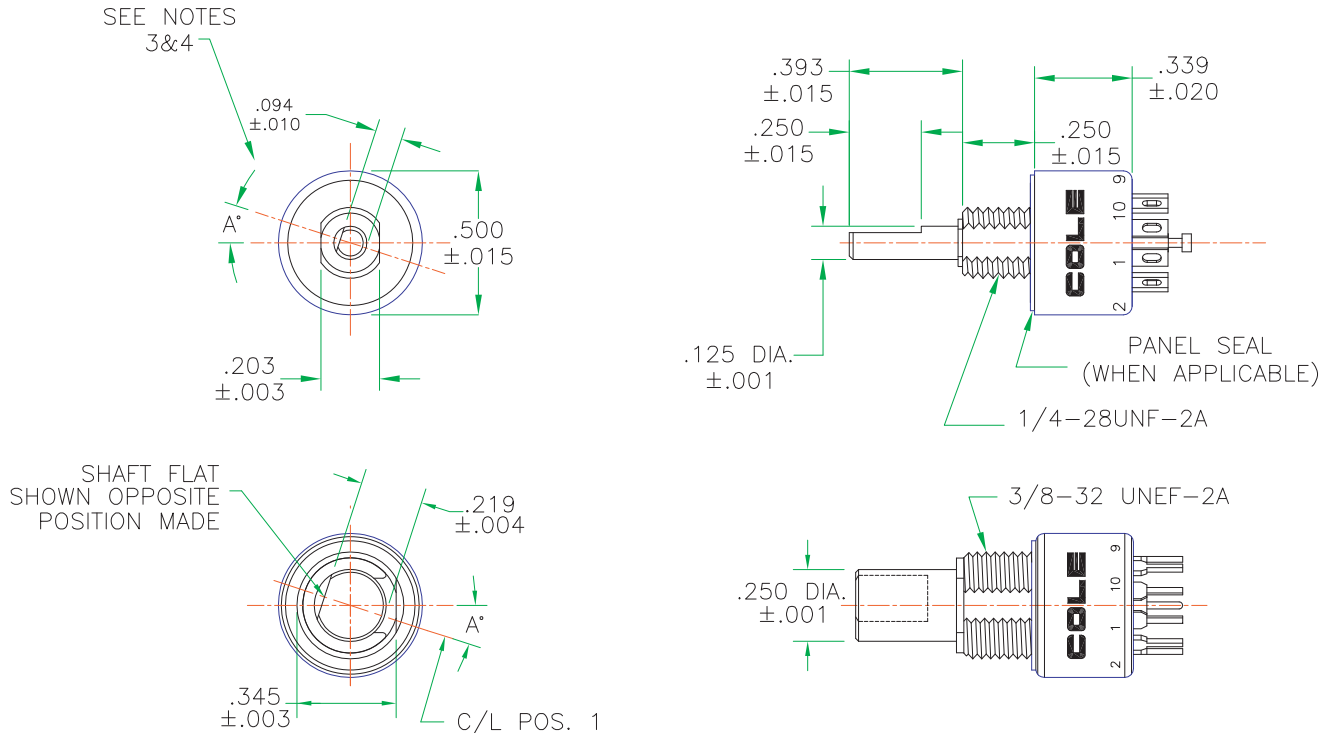
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1800 SERIES

Half Inch Enclosed Rotary Switches

1800 CONDENSED SERIES



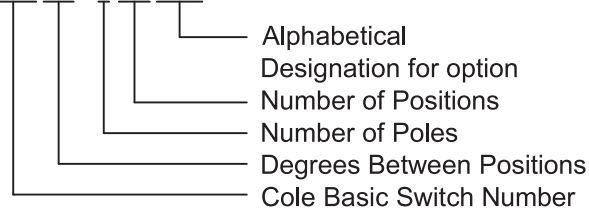
NOTES:

1. Dimensions are in inches.
2. Unless otherwise specified, tolerances are ± 0.005 and $\pm 3^\circ$ on angles (Non-accumulative).
3. Shaft flat angle A is the angle between a line through the center of the shaft, perpendicular to the mounting bushing flats and another line through the center of the shaft and perpendicular to the shaft flat, with switch in position number 1.
4. Position 1 and terminal 1 coincide.
5. Dimension shown are typical for all angles of throw, unless otherwise specified.
6. Screwdriver actuation - S1800 Series switches can also be supplied with a slotted screwdriver shaft. The shaft dimensions are indicated; all other dimensions remain the same. The slot in the shaft lines up with the point of contact of Pole number one.

ORDERING INFORMATION

Sample Code:

S18 36 - 1 04 ****



The standard Series S1800 is furnished with solder lug terminations, non-shorting and without seals. The standard 10 position switch is continuous rotation.

OPTIONS

The following options can be added to the standard switch. When ordering, simply add the letters after the basic part number.

- A = Adjustable stops
- C = printed Circuit mounting terminals
- F = Fixed stop between the last and first position on the 10 position switch.
- P = Panel and shaft seals.
- S = Shorting type switch (36° only).
- SD = Screwdriver slot.
- Q = 1/4" shaft
- T = Pre-tinned terminals
- Y = Key Washer

1800 SERIES

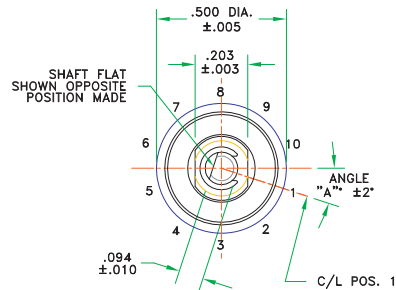
Half Inch Enclosed Rotary Switches

COMMERCIAL
C1800
SERIES

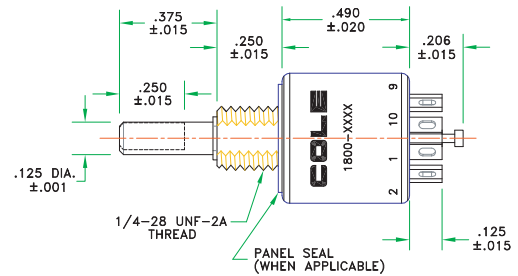
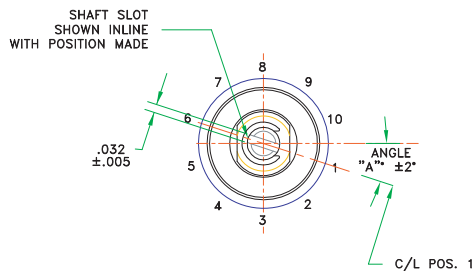
-
PLASTIC
HOUSING

-
ECONOMICALLY
PRICED

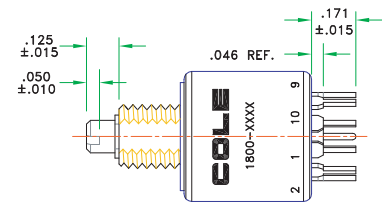
-
.125 DIA.
SHAFT



FRONT VIEW



SIDE VIEW



NOTES:

1. The switch Body of the C1800 series is Reinforced Thermoplastic.
2. The C1800 series meet the requirements of MIL-DTL-3786, but has not been qualified.

ORDERING INFORMATION

Sample Code

C18 36 - 1 04 - ****

- Alphabetical Designation for options
- Number of Positions per Pole
- Number of Poles per Deck
- Degrees Between Positions
- Cole Basic Standard Switch

OPTIONS

The following options can be added to the standard switch. When ordering, simply add the letters after the basic part number. Options listed in alphabetical order only.

- A = Adjustable stops.
- C = Printed circuit mounting terminals.
- SD = Screwdriver shaft.
- F = Fixed stop between the first and last position on a full-turn switch.
- P = Panel and shaft seals.
- Q = 1/4" diameter shaft.
- S = Shorting type switch (36° only)
- T = Pre-tinned terminals.
- Y = Key Washer

PART NUMBER ORDERING EXAMPLES

C1836-1 04-CPS

is a Part Number for a C1800, 1/8" dia. shaft, 36° indexing, 1 pole per deck, 4 positions per pole, shorting contacts, shaft and panel seals, and PC terminals.

C1845-2 02-GQ

is a Part Number for a C1800, 1/4" dia. shaft, 45° indexing, 2 poles per deck, 2 positions per pole, non-shorting contacts, RFI-EMI shielding, and solder lug terminals.



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1800 SERIES

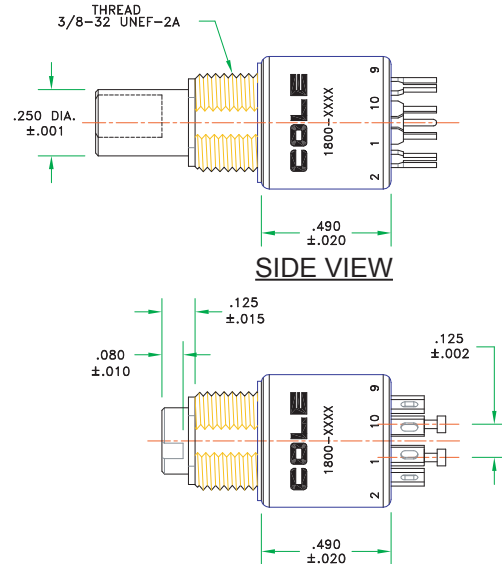
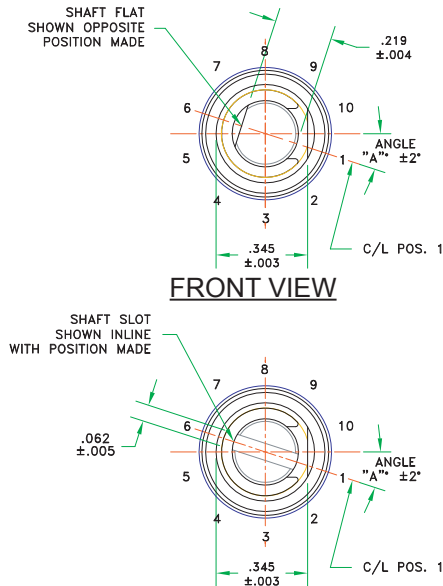
Half Inch Enclosed Rotary Switches

COMMERCIAL
C1800
SERIES

-
PLASTIC
HOUSING

-
ECONOMICALLY
PRICED

-
.250 DIA.
SHAFT



NOTES:

1. The switch Body of the C1800 series is Reinforced Thermoplastic.
2. The C1800 series meet the requirements of MIL-DTL-3786, but has not been qualified.

ORDERING INFORMATION

Sample Code

C18 36 - 1 04 - ****

- Alphabetical Designation for options
- Number of Positions per Pole
- Number of Poles per Deck
- Degrees Between Positions
- Cole Basic Standard Switch

OPTIONS

The following options can be added to the standard switch. When ordering, simply add the letters after the basic part number. Options listed in alphabetical order only.

- A = Adjustable stops.
- C = Printed circuit mounting terminals.
- SD = Screwdriver shaft.
- F = Fixed stop between the first and last position on a full-turn switch
- P = Panel and shaft seals.
- Q = 1/4" diameter shaft.
- S = Shorting type switch (36° only)
- T = Pre-tinned terminals.
- Y = Key Washer

PART NUMBER ORDERING EXAMPLES

C1836-1 04-CPS

is a Part Number for a C1800, 1/8" dia. shaft, 36° indexing, 1 pole per deck, 4 positions per pole, shorting contacts, shaft and panel seals, and PC terminals.

C1845-2 02-GQ

is a Part Number for a C1800, 1/4" dia. shaft, 45° indexing, 2 poles per deck, 2 positions per pole, non-shorting contacts, RFI-EMI shielding, and solder lug terminals.



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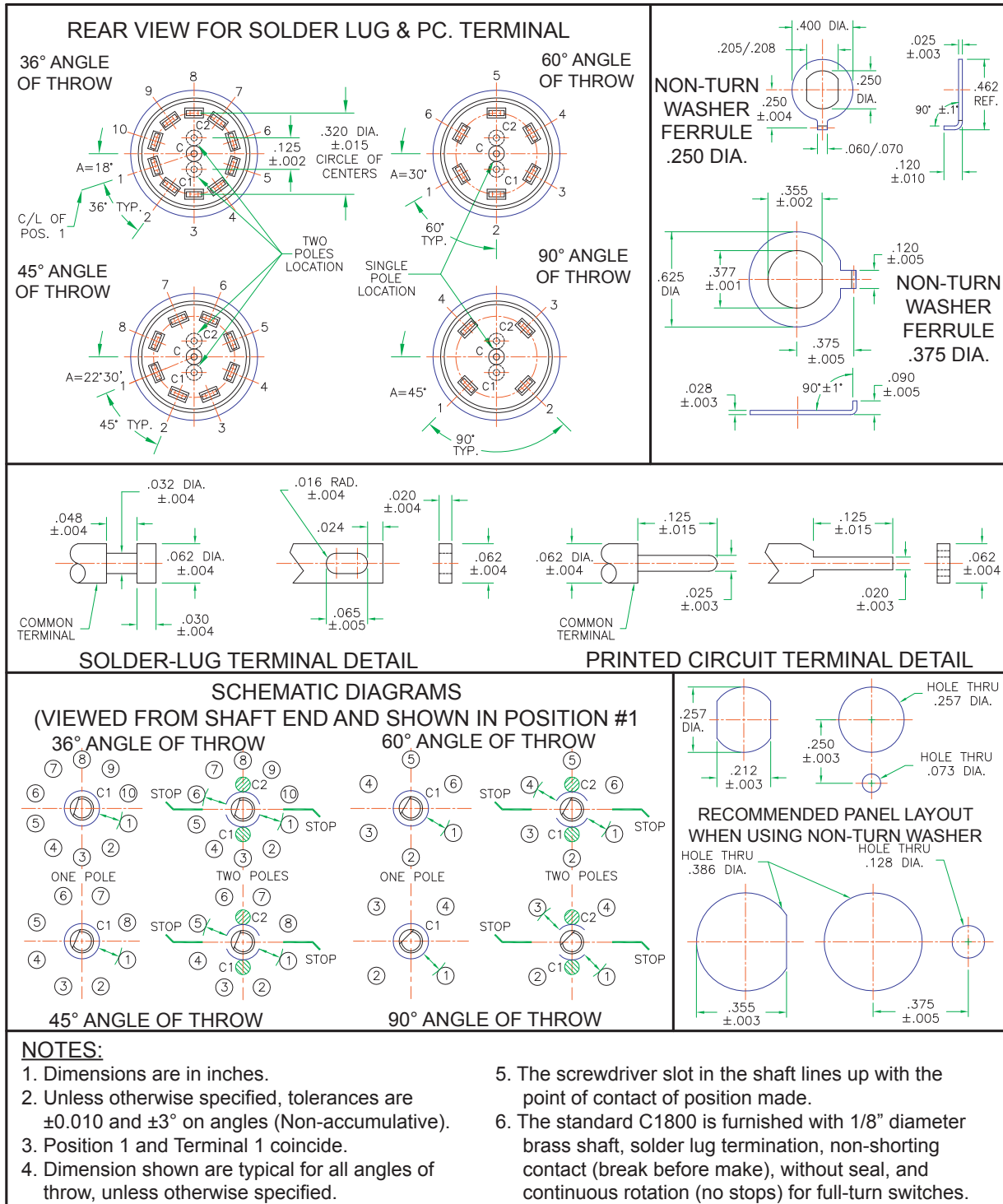
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1800 SERIES

Half Inch Enclosed Rotary Switches

1800 SERIES TYPICAL FEATURES



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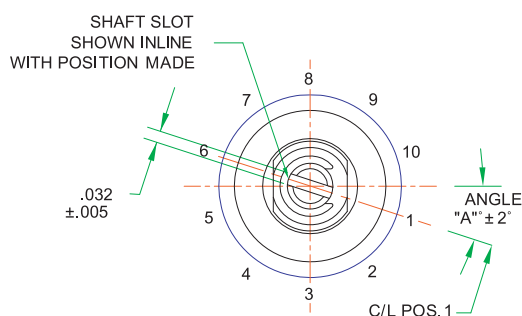
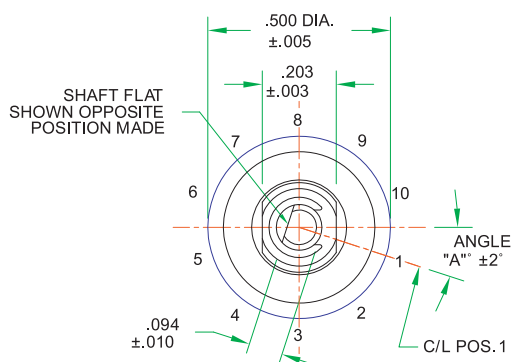
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1800 SERIES

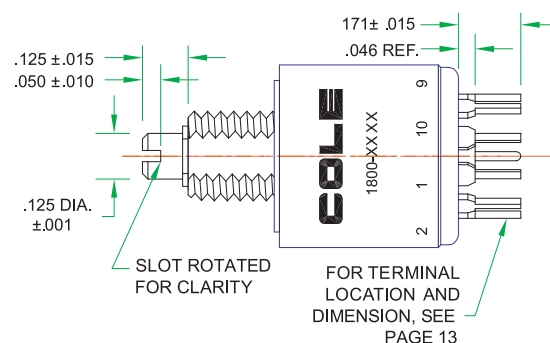
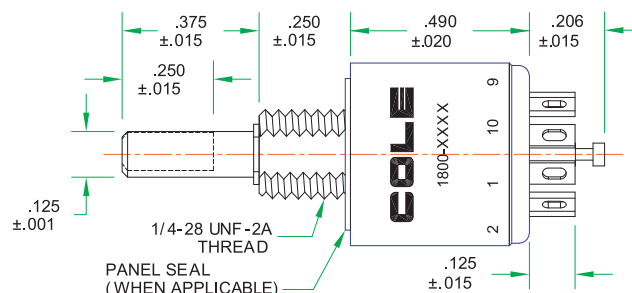
Half Inch Enclosed Rotary Switches

MILITARY QUALIFIED M1800 SERIES



INDEX ANGLE	Number of Positions	A° ±1°
36°	10	18°
45°	8	22°30'
60°	6	30°
90°	4	45°

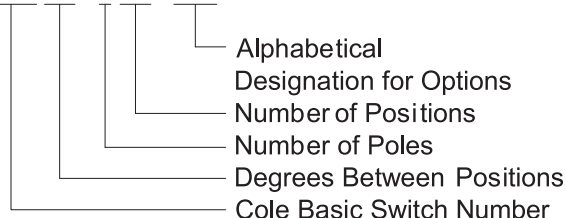
SCREW-DRIVER SHAFT



ORDERING INFORMATION

Sample Code

M18 36 - 1 04 - ****



M1836-104-CPS

Switch shown in the example code is M1800, 1/8" dia. shaft, 36° indexing, 1 pole per deck, 4 positions per pole, shorting contact, shaft and panel seals, and PC terminals

OPTIONS

The following options can be added to the standard switch. When ordering, simply add the letters after the basic part number. Options listed in alphabetical order only.

A = Adjustable stops.

C = Printed circuit mounting terminals.

SD = Screwdriver shaft.

F = Fixed stop between the first and last position on a full-turn switch.

G = RFI-EMI shielding.

P = Panel and shaft seals.

Q = 1/4" diameter shaft.

S = Shorting type switch (36° Only)

T = Pre-tinned terminals.

Y = Non-turn washer.



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1800 SERIES

Half Inch Enclosed Rotary Switches

Series 1800 Technical Data

Specification	Unit	Value	Note:
Military Specifications		MIL-DTL-3786 Style SR20	
Continuous (Non-Switching) Current Carrying Capacity	Amps	6	at 28 VDC, with max. contact temperature rise of 20°C
Switching Current Capacity at 28 VDC resistive	Amps	0.200	at Atmospheric pressure with 85°C and at reduced Barometric pressure with 25°C
Switching Current Capacity at 115 VAC resistive	Amps	0.150	
Switching Current Capacity at 28 VDC inductive (2.8 H.)	Amps	0.030	
Switching Current Capacity at 28 VDC Lamp Load	Amps	0.100	
Low Level max. capacity	mA	10	at 30 millivolts DC max.
Dielectric Strength, min.	VRMS	600	
Contact resistance, max. (initial)	milliohms (mΩ)	10	
Contact resistance, max. (after life)	milliohms (mΩ)	20	
Insulation resistance, min. (initial)	megaohms (MΩ)	50,000	at 100 VDC
Insulation resistance, min. (after life)	megaohms (MΩ)	25,000	at 100 VDC
Switching Life	cycles	25,000	at rated loads, sea-level, 25°C, 68% relative humidity
Mechanical Life	cycles	25,000	
Spring Return Life	cycles	15,000	for momentary cycles
Rotational Torque, min.	inch ounces	8	
Rotational Torque, max.	inch ounces	24	
Stop Strength, max.	inch pounds	7.5	
Mounting Ferrule Strength	inch pounds	15	
Withstanding Shaft Push Force	pounds	100	
Weight	grams	13	
Molded Parts		thermoplastic	
Contact Surfaces		Gold plated	
Altitude	feet	70,000	typical pressure at 70,000 feet: 0.64 psi
Temperature, min.	degrees Celsius	-65	
Temperature, max.	degrees Celsius	85	
Vibration Tested		Meets	Per MIL-DTL-3786, MIL-STD-202, Method 204, test condition "B", vibration grade 3
Impact Shock, Medium		Meets	MIL-STD 202; Method 213
Impact Shock, High		Meets	at 100g, MIL-STD 202, Method 207
Moisture Resistant		Meets	MIL-STD 202; Method 106
Salt Spray Resistant		Meets	MIL-STD 202, Method 101, Condition "B"
Explosion Proof		Meets	MIL-STD 202, Method 109
Immersion		Meets	3 feet water, MIL-STD-202, method 104, test condition C
EMI/RFI		Meets	MIL-DTL-3786, 2 ohms Shaft to ground max.



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