

SERIES 08

SERIES 09

0.5" Diameter, 1/4 Amp,
Standard, Military SR13

FEATURES

- Proven Quality in Thousands of Applications
- Gold-plated Contact System
- 30°, 36°, 45°, 60° and 90° Angle of Throw Options
- MIL Qualified Versions MIL-S-3786/13



DIMENSIONS in inches (and millimeters)

Standard Style

Front view shows terminal location of Series 8, 36° angle of throw. Transpose rear view for terminal location of other angles of throw.



Note: Common location for a single pole per deck switch. For common location on multi-pole switches, see circuit diagrams.

No. of Decks	Dimension A	Dimension B	Approx. Weight Grams		No. of Decks	Dimension A	Dimension B	Approx. Weight Grams	
			Srs. 08	Srs. 09				Srs. 08	Srs. 09
1	.960 (24,38)	.062 (1,57)	12	16.0	7	2.818 (71,58)	.312 (7,92)	24	31.0
2	1.228 (31,19)	.062 (1,57)	14	18.5	8	3.086 (78,38)	.312 (7,92)	26	33.5
3	1.496 (38,00)	.062 (1,57)	16	21.0	9	3.354 (85,19)	.312 (7,92)	28	36.0
4	1.764 (44,81)	.062 (1,57)	18	23.5	10	3.622 (91,00)	.312 (7,92)	30	38.5
5	2.032 (51,61)	.062 (1,57)	20	26.0	11	3.890 (98,81)	.312 (7,92)	32	41.0
6	2.550 (64,77)	.312 (7,92)	22	28.5	12	4.158 (105,61)	.312 (7,92)	34	43.5

Grayhill part number and date code marked on standard style detent cover label. Customer part number marked on request. Grayhill part number and date code printed on military style cover. Military number printed when required.

Rear Views

Series 09 30° Angle of Throw



Series 08 36° Angle of Throw

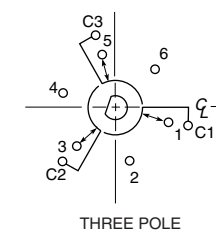
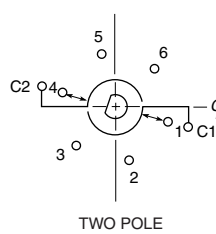
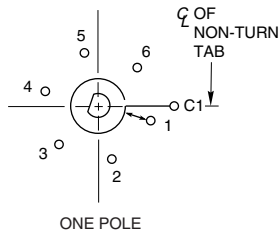


For rear view of 45°, 60° and 90°, see circuit diagrams.

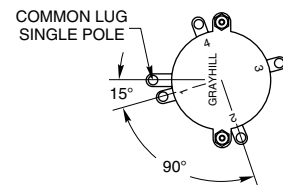
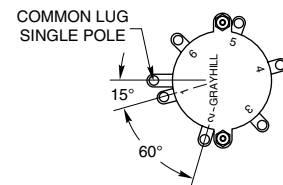
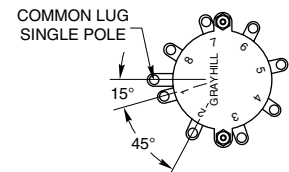
CIRCUIT DIAGRAMS: Solder Lug Terminals

Switch is Viewed From Shaft End and Shown in Position No. 1

Note: All common terminals are located above base terminals as shown.

Series 09
30° Angle
of ThrowSeries 08
36° Angle
of ThrowSeries 09
45° Angle
of ThrowSeries 09
60° Angle
of ThrowSeries 09
90° Angle
of Throw

Rear Views



SERIES 08

SERIES 09

.5" Diameter, 1/4 Amp, PC Mount

FEATURES

- Gold-plated Contact System
- 30°, 36°, 60° or 90° Angle of Throw Options
- Compatible with Logic Level Voltages and Currents



DIMENSIONS in inches (and millimeters)

PC Mount Style

Front view shows terminal location of 36° angle of throw. Transpose rear view for terminal location of 30° angle of throw. See Circuit Diagrams for 60° and 90° angles of throw.



NON-TURN TAB .062 ± .005
(1,58 ± 0,13) WIDE BY
.020 ± .003 (0,51 ± 0,08) THICK

SEE NOTE

Note: Common location for a single pole per deck switch. For common location on multi-pole switches, see circuit diagrams.

*Termination

A standard switch uses the entire 360° of each deck as required by the circuitry. Thus one-sided termination is standard for Series 08, 36°, 1 pole switches with 1 to 5 positions per pole; it is also standard for Series 09, 30°, 1 pole switches with 1 to 6 positions per pole. Two-sided termination is standard for 1 pole switches with more positions per pole and for switches of 2 or more poles per deck.

Special switches with one-sided termination can be made for circuitry which would require two-sided termination in standard switches. Contact Grayhill for a special part number. See also Special Options, page J-10.

Grayhill part number and date code marked on detent cover label. Customer part number marked on request.



Rear Views

Series 09 30° Angle of Throw



Series 08 36° Angle of Throw

TERMINAL DIMENSIONS AT THIS POINT ARE .032 ± .000 - .010 (0,81 ± 0,00 - 0,25) WIDE BY .015 ± .000 - .003 (0,38 ± 0,00 - 0,08) THICK



CIRCUIT DIAGRAMS: PC Mount

Switch is Viewed From Shaft End and Shown in Position No. 1

Note: All common terminals are located above base terminals as shown.



PC BOARD MOUNTING PATTERN

36° Angle of Throw



30°, 60° and 90° Angle of Throw



Number of Poles Per Deck	Common Terminal Hole Location
1 Pole Per Deck	A
2 Poles Per Deck	A

Angle of Throw	Base Terminals Hole Location
30°	All
60°	E and F
90°	D and F

Diagrams shown for a two deck switch. Bushing mounting is recommended for all PC mount rotary switches.

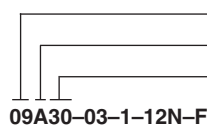
SHAFT AND PANEL SEAL

A shaft and panel seal is available to provide watertight mounting of the Series 08 and 09. Standard and Military Style rotary switches. Sealing is accomplished by O-ring shaft seal and panel seal washer. When the panel seal is compressed, dimensions are approximately the same as an unsealed switch. Sealed switches are provided with a double flat bushing. Non-turn feature can be accomplished by proper fit of this bushing into panel hole and/or by allowing non-turn tab to extend into (but not through) panel. Military Style rotary sealed switches do not have a non-turn tab.

CHOICES AND LIMITATIONS

Series	Style and Designation	Angle of Throw	Stops	Terminals	Number of Decks		Poles Per Deck	Number of Positions/Pole
	Shorting	Non-Shorting						
08	A = Standard S = Standard, Shaft/Panel Seal M = Military Style MS = Style M, Shaft/Panel Seal	36°	Fixed	Solder	01 thru 12 01 thru 09	01 thru 12 01 thru 09	1 2	02 thru 10 02 thru 05
	P = Standard, PC Mount SP = Style P, Shaft/Panel Seal MP = Military Style, PC Mount MSP = Style MP, Shaft/Panel Seal			Printed Circuit	01 thru 12 01 thru 09	01 thru 12 01 thru 09	1 2	02 thru 10 02 thru 05
09	A = Standard S = Standard, Shaft/Panel Seal M = Military Style MS = Style M, Shaft/Panel Seal	30°	Fixed	Solder	01 thru 12 01 thru 09 01 thru 06 01 thru 04 01 thru 03 01 thru 03	01 thru 12 01 thru 09 01 thru 06 01 thru 04 01 thru 03 01 thru 03	1 2 3 4 5 6	02 thru 12 02 thru 06 02 thru 04 02 or 03 02 02
	P = Standard, PC Mount SP = Style P, Shaft/Panel Seal MP = Military Style, PC Mount MSP = Style MP, Shaft/Panel Seal			Printed Circuit	01 thru 12 01 thru 09	01 thru 12 01 thru 09	1 2	02 thru 12 02 thru 06
	A = Standard, S = Standard, Shaft/Panel Seal M = Military Style MS = Style M, Shaft/Panel Seal	45°		Solder	01 thru 12 01 thru 06 01 thru 04 01 thru 03	01 thru 12 01 thru 06 01 thru 04 01 thru 03	1 2 3 4	02 thru 08 02 thru 04 02 02
	A = Standard, S = Standard, Shaft/Panel Seal M = Military Style MS = Style M, Shaft/Panel Seal				Not Available	01 thru 06 01 thru 03 01 or 02	1 2 3	02 thru 006 02 or 03 02
	P = Standard, PC Mount SP = Style P, Shaft/Panel Seal MP = Military Style, PC Mount MSP = Style MP, Shaft/Panel Seal	60°		Printed Circuit	Not Available	01 thru 06 01 thru 03	1 2	02 thru 06 02 or 03
	A = Standard S = Standard, Shaft/Panel Seal			90°	Solder	Not Available	01 thru 06 01 thru 03	1 2
	P = Standard, PC Mount SP = Style, Shaft/Panel Seal	Printed Circuit			Not Available	01 thru 06 01 thru 03	1 2	02 thru 04 02

ORDERING INFORMATION



09A30-03-1-12N-F

Series: determined by the angle of throw**Style*:** Letter(s) from the Choices and Limitations chart**Angle of Throw:** Must agree with Series Number**Stop Arrangement:** Add letter C or F to a one pole per deck switch with the maximum number of positions for a stop between position 1 and the last position.**Type of Contacts:** N = Non-shorting; S = Shorting**Positions Per Pole:** Requires 02 positions as a minimum to the maximum allowable dependent on the angle of throw and poles per deck**Poles Per Deck:** As limited by angle of throw and switch style**Number of Decks:** As limited by the angle of throw, the poles per deck, switch style and types of contacts

* All rotary switches that are required to have military designated markings and testing adhering to MIL-3786 are to be ordered by specifying the military part number identified on the appropriate slash sheet.

Компания «Океан Электроники» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Поставка оригинальных импортных электронных компонентов напрямую с производств Америки, Европы и Азии, а так же с крупнейших складов мира;
- Широкая линейка поставок активных и пассивных импортных электронных компонентов (более 30 млн. наименований);
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Помощь Конструкторского Отдела и консультации квалифицированных инженеров;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Поставка электронных компонентов под контролем ВП;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- При необходимости вся продукция военного и аэрокосмического назначения проходит испытания и сертификацию в лаборатории (по согласованию с заказчиком);
- Поставка специализированных компонентов военного и аэрокосмического уровня качества (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Actel, Aeroflex, Peregrine, VPT, Syfer, Eurofarad, Texas Instruments, MS Kennedy, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

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JONHON

«JONHON» (основан в 1970 г.)

Разъемы специального, военного и аэрокосмического назначения:

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ВЧ соединители, коаксиальные кабели,
кабельные сборки и микроволновые компоненты:

(Применяются в телекоммуникациях гражданского и специального назначения, в средствах связи, РЛС, а так же военной, авиационной и аэрокосмической отраслях промышленности).



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