

TL series tiny sealed toggle switches

Contact rating 0.4 volt-amps (VA) max. at 20 volts max. (AC or DC). Operating temp. range -30° C to +85° C. Chrome plated brass toggle. Gold over nickel plated brass contacts & terminals. Blue glass filled PBT body. UL94V-0. O-ring bushing seal. Epoxy terminal seal. S.P. body size .200" w x .320" h x .320" d. D.P. body size .360" w x .320" h x .320" d. Process compatible.

MODEL NO.	CIRCUIT	ACTION	
TL36P000000 TL39P000000 TL37P000000 TL38P000000 TL32P000000	SPDT	On-None-On On-Off-On (On)-Off-(On) On-Off-(On) On-None-(On)	
TL46P000000 TL49P000000 TL47P000000 TL48P000000 TL42P000000	DPDT	On-None-On On-Off-On (On)-Off-(On) On-Off-(On) On-None-(On)	
TL36Y000050 TL39Y000050 TL37Y000050 TL38Y000050 TL32Y000050	SPDT	On-None-On On-Off-On (On)-Off-(On) On-Off-(On) On-None-(On)	
TL46Y000050 TL49Y000050 TL47Y000050 TL48Y000050 TL42Y000050	DPDT	On-None-On On-Off-On (On)-Off-(On) On-Off-(On) On-None-(On)	
TL36W000050 TL39W000050 TL37W000050 TL38W000050 TL32W000050	SPDT	On-None-On On-Off-On (On)-Off-(On) On-Off-(On) On-None-(On)	
TL46W000050 TL49W000050 TL47W000050 TL48W000050 TL42W000050	DPDT	On-None-On On-Off-On (On)-Off-(On) On-Off-(On) On-None-(On)	
TL36WW00050 TL39WW00050 TL37WW00050 TL38WW00050 TL32WW00050	SPDT	On-None-On On-Off-On (On)-Off-(On) On-Off-(On) On-None-(On)	
TL46WW00050 TL49WW00050 TL47WW00050 TL48WW00050 TL42WW00050	DPDT	On-None-On On-Off-On (On)-Off-(On) On-Off-(On) On-None-(On)	
TL36MW00000 TL39MW00000 TL37MW00000 TL38MW00000 TL32MW00000	SPDT	On-None-On On-Off-On (On)-Off-(On) On-Off-(On) On-None-(On)	
TL46MW00000 TL49MW00000 TL47MW00000 TL48MW00000 TL42MW00000	DPDT	On-None-On On-Off-On (On)-Off-(On) On-Off-(On) On-None-(On)	

STRAIGHT P.C. TERMINALS

STRAIGHT P.C. TERMINALS

RT. ANGLE HORIZ. PC TERMS.

RT. ANGLE VERT. P.C. TERMS.

WIRE-WRAP TERMINALS

S series mini. sealed toggle switches (p.c. mt.) (cont.)

MODEL NO.	CIRCUIT	ACTION	
SWW236CD7 SWW239CD7 SWW237CD7 SWW238CD7 SWW232CD7	SPDT	On-None-On On-Off-On (On)-Off-(On) On-Off-(On) On-None-(On)	
SWW246CD7 SWW249CD7 SWW247CD7 SWW248CD7 SWW242CD7 SWW244THCD7	DPDT	On-None-On On-Off-On (On)-Off-(On) On-Off-(On) On-None-(On) On-On-On	
SY236CD7 SY239CD7 SY237CD7 SY238CD7 SY232CD7	SPDT	On-None-On On-Off-On (On)-Off-(On) On-Off-(On) On-None-(On)	
SY246CD7 SY249CD7 SY247CD7 SY248CD7 SY242CD7 SY244THCD7	DPDT	On-None-On On-Off-On (On)-Off-(On) On-Off-(On) On-None-(On) On-On-On	

RT. ANGLE VERT. PC TERMS.

STRAIGHT PC TERMS. W/BRKT.

SF series mini. sealed toggle switches (Panel mt.)

Contact ratings: S9 models- 5 amps at 125 VAC, 2 amps at 250 VAC or 4 amps at 30 VDC (silver contacts & terminals). P9 models- 0.4 volt-amps (VA) max. at 20 volts max. (gold plated contacts & terms.). Operating temp. range -20° C to +85° C. Chrome plated brass toggle (.421" lg.). Glass filled polyamide body, UL94V-0. O-ring bushing seal. Epoxy terminal seal. S.P. body size .500" w x .259" h x .425" d. D.P. body size .500" w x .458" h x .425" d. Mounts in 1/4" hole. Mounting hardware supplied. Process compatible.

MODEL NO.	CIRCUIT	ACTION	
SF36S0100 SF39S0100 SF37S0100 SF38S0100 SF32S0100	SPDT	On-None-On On-Off-On (On)-Off-(On) On-Off-(On) On-None-(On)	
SF36P0000 SF39P0000 SF37P0000 SF38P0000 SF32P0000	SPDT	On-None-On On-Off-On (On)-Off-(On) On-Off-(On) On-None-(On)	

STRAIGHT PC TERMS. SHOWN

5000 series miniature toggle switches (panel mt.)

Contact rating 6 amps at 120 VAC or 3 amps at 250 VAC or 4 amps at 30 VDC. Operating temperature range -40° C to 85° C. Chrome plated brass toggle. Nickel plated brass bushing. Silver contacts. Silver plated brass terminals. Dialyl phthalate case. Epoxy term. seal. Mounting hardware included. S.P. body size .275" w x .519" h x .472" d. D.P. body size .519" w x .472" h x .472" d. 3P. body size .519" w x .649" h x .516" d. 4P. body size .519" w x .834" h x .516" d. Mounts in 1/4" hole (except 'M' models). UL & CSA listing available - consult factory. Dry ckt. models w/gold over nickel conds. & terms. and rating of 0.4 volt-amps (VA) max. at 20 volts max. also available. To specify, substitute 'CD' for 'A' in model number below.

This Series continued on next page

MODEL NO.	CIRCUIT	ACTION	
5636AB 5639AB 5637AB 5638AB 5632AB	SPDT	On-None-On On-Off-On (On)-Off-(On) On-Off-(On) On-None-(On)	
5646AB 5649AB 5647AB 5648AB 5642AB 5644THAB	DPDT	On-None-On On-Off-On (On)-Off-(On) On-Off-(On) On-None-(On) On-On-On	
5656AB 5659AB 5657AB 5658AB 5652AB	3PDT	On-None-On On-Off-On (On)-Off-(On) On-Off-(On) On-None-(On)	
5666AB 5669AB 5667AB 5668AB 5662AB 5664THAB	4PDT	On-None-On On-Off-On (On)-Off-(On) On-Off-(On) On-None-(On) On-On-On	

STANDARD ROUND HANDLE
SOLDER LUG TERMINALS

S series miniature sealed toggle switches (p.c. mt.)

Contact rating 0.4 volt-amps (VA) max. at 20 volts max. (AC or DC). Operating temp. range -20° C to +85° C. Chrome plated brass toggle (.296" lg.). Gold over nickel plated brass contacts & terminals. Glass filled polyamide body, UL94V-0. O-ring bushing seal. Epoxy terminal seal. S.P. body size .500" w x .259" h x .425" d. D.P. body size .500" w x .458" h x .425" d. Process compatible.

MODEL NO.	CIRCUIT	ACTION	
SW236CD7 SW239CD7 SW237CD7 SW238CD7 SW232CD7	SPDT	On-None-On On-Off-On (On)-Off-(On) On-Off-(On) On-None-(On)	
SW246CD7 SW249CD7 SW247CD7 SW248CD7 SW242CD7 SW244THCD7	DPDT	On-None-On On-Off-On (On)-Off-(On) On-Off-(On) On-None-(On) On-On-On	

RT. ANGLE HORIZ. PC TERMS.

5000 series mini toggle switches (panel mt.) (cont.)

MODEL NO.	CIRCUIT	ACTION	
5636AB9 5639AB9 5637AB9	SPDT	On-None-On On-Off-On (On)-Off-(On)	
5638AB9 5632AB9		On-Off-(On) On-None-(On)	
5646AB9 5649AB9 5647AB9 5648AB9		On-None-On On-Off-On (On)-Off-(On) On-Off-(On)	
5642AB9 5644THAB9	3PDT	On-None-(On) On-On-On	
5656AB9 5659AB9 5657AB9 5658AB9 5652AB9		On-None-On On-Off-On (On)-Off-(On) On-Off-(On) On-None-(On)	
5666AB9 5669AB9 5667AB9 5668AB9 5662AB9 5664THAB9		On-None-On On-Off-On (On)-Off-(On) On-Off-(On) On-None-(On) On-On-On	
5636MAB 5639MAB 5637MAB 5638MAB 5632MAB	SPDT	On-None-On On-Off-On (On)-Off-(On) On-Off-(On) On-None-(On)	
5646MAB 5649MAB 5647MAB 5648MAB 5642MAB 5644MTHAB		On-None-On On-Off-On (On)-Off-(On) On-Off-(On) On-None-(On) On-On-On	
5656MAB 5659MAB 5657MAB 5658MAB 5652MAB		On-None-On On-Off-On (On)-Off-(On) On-Off-(On) On-None-(On)	
5666MAB 5669MAB 5667MAB 5668MAB 5662MAB 5664MTHAB	4PDT	On-None-On On-Off-On (On)-Off-(On) On-Off-(On) On-None-(On) On-On-On	
5636AKB 5639AKB 5637AKB 5638AKB 5632AKB	SPDT	On-None-On On-Off-On (On)-Off-(On) On-Off-(On) On-None-(On)	
5646AKB 5649AKB 5647AKB 5648AKB 5642AKB 5644THAKB		On-None-On On-Off-On (On)-Off-(On) On-Off-(On) On-None-(On) On-On-On	
5656AKB 5659AKB 5657AKB 5658AKB 5652AKB		On-None-On On-Off-On (On)-Off-(On) On-Off-(On) On-None-(On)	
5666AKB 5669AKB 5667AKB 5668AKB 5662AKB 5664THAKB	4PDT	On-None-On On-Off-On (On)-Off-(On) On-Off-(On) On-None-(On) On-On-On	
MODEL	CKT.	ACTION	POSITIONS
5636AB-1V 5636AB-2V 5639AB-3V	SPDT	On-None-On On-Off-On On-Off-On	1 2 3
5646AB-1V 5646AB-2V 5649AB-3V		On-None-On On-None-On On-Off-On	1 2 3
5656AB-1V 5656AB-2V 5659AB-3V		On-None-On 3PDT On-Off-On	1 On-None-On 2 3
5666AB-1V 5666AB-2V 5669AB-3V	4PDT	On-None-On On-None-On On-Off-On	1 2 3

**FLATTED TOGGLE HANDLE
SOLDER LUG TERMINALS**

**15/32" BUSHING
LONG ROUND HANDLE
SOLDER LUG TERMINALS**

**1/4" SPLASHPROOF BUSHING
STANDARD ROUND HANDLE
SOLDER LUG TERMINALS**

**LOCKING LEVER
SOLDER LUG TERMINALS**

5000 series miniature toggle switches (p.c. mt.)

Contact rating 0.4 volt-amperes (VA) at 20 volts max. Operating temp. range -40° C to 85° C. Chrome plated brass toggle. Nickel plated brass bushing. Gold plated brass contacts & terminals. Dialyl phthalate case. Epoxy term. seal. Mtg. hardware included (Th'd. models only). S.P. body size .275" w x .519" h x .472" d. D.P. body size .519" w x .472" h x .472" d. 3P. body size .519" w x .649" h x .516" d. 4P. body size .519" w x .834" h x .516" d. UL & CSA listing available - consult factory. Power models w/silver conds. & terms. and ratings of 6 amps at 120 VAC or 3 amps at 250 VAC or 4 amps at 30 VDC also available. To specify, substitute 'A' for 'CD' in model number below.

MODEL NO.	CKT.	ACTION	
5236CDB 5239CDB 5237CDB	SPDT	On-None-On On-Off-On (On)-Off-(On)	
5238CDB 5232CDB 5246CDB 5249CDB 5247CDB 5248CDB 5242CDB 5244THCDB		On-Off-(On) On-None-(On) On-None-On On-Off-On (On)-Off-(On) On-Off-(On) On-None-(On) On-On-On	
5256CDB 5259CDB 5257CDB 5258CDB 5252CDB	3PDT	On-None-On On-Off-On (On)-Off-(On) On-Off-(On) On-None-(On)	
5266CDB 5269CDB 5267CDB 5268CDB 5262CDB 5264THCDB		On-None-On On-Off-On (On)-Off-(On) On-Off-(On) On-None-(On) On-On-On	
5236WCDB16X404 5239WCDB16X404 5237WCDB16X404 5238WCDB16X404 5232WCDB16X404		On-None-On On-Off-On (On)-Off-(On) On-Off-(On) On-None-(On)	
5246WCDB16X404 5249WCDB16X404 5247WCDB16X404 5248WCDB16X404 5242WCDB16X404 5244WTHCDB16X404	DPDT	On-None-On On-Off-On (On)-Off-(On) On-Off-(On) On-None-(On) On-On-On	
5256WCDB16 5259WCDB16 5257WCDB16 5258WCDB16 5252WCDB16		On-None-On On-Off-On (On)-Off-(On) On-Off-(On) On-None-(On)	
5236WWCDB16X445 5239WWCDB16X445 5237WWCDB16X445 5238WWCDB16X445 5232WWCDB16X445		On-None-On On-Off-On (On)-Off-(On) On-Off-(On) On-None-(On)	
5246WWCDB16X445 5249WWCDB16X445 5247WWCDB16X445 5248WWCDB16X445 5242WWCDB16X445 5244WTHCDB16X445	DPDT	On-None-On On-Off-On (On)-Off-(On) On-Off-(On) On-None-(On) On-On-On	
5256WWCDB16X514 5259WWCDB16X514 5257WWCDB16X514 5258WWCDB16X514 5252WWCDB16X514		On-None-On On-Off-On (On)-Off-(On) On-Off-(On) On-None-(On)	
5266WWCDB16X514 5269WWCDB16X514 5267WWCDB16X514 5268WWCDB16X514 5262WWCDB16X514 5264WTHCDB16X514	4PDT	On-None-On On-Off-On (On)-Off-(On) On-Off-(On) On-None-(On) On-On-On	
5236YCD-16X445 5239YCD-16X445 5237YCD-16X445 5238YCD-16X445 5232YCD-16X445		On-None-On On-Off-On (On)-Off-(On) On-Off-(On) On-None-(On)	
5246YCD-16X445 5249YCD-16X445 5247YCD-16X445 5248YCD-16X445 5242YCD-16X445 5244YTHCDB-16X445		On-None-On On-Off-On (On)-Off-(On) On-Off-(On) On-None-(On) On-On-On	

**THREADED BUSHING
STANDARD ROUND HANDLE
STRAIGHT P.C. TERMINALS**

**SHORT ROUND HANDLE
RT. ANGLE HOR. TERMS.**

**SHORT ROUND HANDLE
RT. ANGLE VERT. TERMS.**

**SHORT ROUND HANDLE
STR. P.C. TERMS. W/BRKT.**

**2
SWITCHES & KNOBS**

600 series Industrial toggle switches -12 mm bushing

Contact rating 15 amps at 120 VAC or 10 amps at 250 VAC or 5 amps at 25 VDC. Also 10 amps, 1/2 HP, 125/250 VAC. Op. temp. range -20° C to 55° C. Nickel plated brass or black nylon toggle. Nickel plated brass bushing. Silver/nickel alloy contacts. Melamine/ polyester case. Mounting hardware included. S.P. body size .551" w x 1.161" h x .590" d. D.P. body size .846" w x 1.169" h x .846" d. 3P body size 1.358" w x 1.252" h x .949" d. Models with solder lug terminals listed below - omit 1/2" from Model no. for screw type terminals with clamps. UL & CSA recognized. VDE available some models.

MODEL NO.	CIRCUIT	ACTION
631H/2	SPST	On-None-Off
635H/2	SPDT	(On)-None-On
636H/2		On-None-On
637H/2		(On)-Off-(On)
638H/2		On-Off-(On)
639H/2		On-Off-On
631NH/2	SPST	On-None-Off
635NH/2	SPDT	(On)-None-On
636NH/2		On-None-On
637NH/2		(On)-Off-(On)
638NH/2		On-Off-(On)
639NH/2		On-Off-On
641H/2	DPST	On-None-Off
644H/2	DPDT	On-Off-On
645H/2		(On)-None-On
646H/2		On-None-On
647H/2		(On)-Off-(On)
648H/2		On-Off-(On)
649H/2		On-Off-On
641NH/2	DPST	On-None-Off
644NH/2	DPDT	On-On-On
645NH/2		(On)-None-On
646NH/2		On-None-On
647NH/2		(On)-Off-(On)
648NH/2		On-Off-(On)
649NH/2		On-Off-On
651H/2	3PST	On-None-Off
655H/2	3PDT	(On)-None-On
656H/2		On-None-On
657H/2		(On)-Off-(On)
658H/2		On-Off-(On)
659H/2		On-Off-On
651NH/2	3PST	On-None-Off
655NH/2	3PDT	(On)-None-On
656NH/2		On-None-On
657NH/2		(On)-Off-(On)
658NH/2		On-Off-(On)
659NH/2		On-Off-On



SP WITH BAT TOGGLE & SOLDER/QUICK CON. TERMS



DP WITH FLAT NYLON TOG. & SOLDER/QUICK CON. TERMS



3P WITH BAT TOGGLE & SCREW TERMINALS W/CLAMP

12000 series industrial hi-rel. toggle switches - 15/32" bushing

Contact rating 4 amps at 120 VAC or 2 amps at 250 VAC or 4 amps at 30 VDC. Operating temperature range -40° C to 85° C. Chrome plated brass toggle. Nickel plated brass bushing. Silver contacts & solder lug terms. DAP case. Epoxy terminal seal. 2 Nuts and anti-rotate ring included. D.P. body size .551" w x .551" h x .539" d. 3P body size .551" w x .787" h x .539" d. 4P body size .551" w x 1.023" h x .539" d. Meets MIL STANDARD 3950.

MODEL NO.	CIRCUIT	ACTION
12146A	DPDT	On-None-On
12149A		On-Off-On
12147A		(On)-Off-(On)
12148A		On-Off-(On)
12144A		On-On-On
12145A		None-On-(On)
12156A	3PDT	On-None-On
12159A		On-Off-On
12157A		(On)-Off-(On)
12158A		On-Off-(On)
12166A	4PDT	On-None-On
12169A		On-Off-On
12167A		(On)-Off-(On)
12168A		On-Off-(On)
12164A		On-On-On



4600 series indust. toggle switches-12 mm bushing

Contact rating 6 amps at 120 VAC or 4 amps at 250 VAC. Operating temperature range -20° C to 55° C. Black nylon toggle (other colors available - consult factory). Black nylon bushing. Silver contacts. Solder/quick con. terms. Melamine phenolic case. 1 hex. nut and 1 insulated knurl. nut included. S.P. body size .472" w x .748" h x .610" d. D.P. body size .649" w x .826" h x .610" d. UL & CSA recognized. VDE recognized on 2 position models.

MODEL NO.	CIRCUIT	ACTION
4631A22UU	SPST	On-None-Off
4636A22UU	SPDT	On-None-On
4639A22UU		On-Off-On
4641A22UU	DPST	On-None-Off
4646A22UU	DPDT	On-None-On
4649A22UU		On-Off-On



FLATTED INSULATED TOGGLE SOLDER/QUICK CON. TERMS.

TR series tiny sealed rocker switches

Contact rating 0.4 volt-amps (VA) max. at 20 volts max. (AC or DC). Operating temp. range -30° C to +85° C. Black polyamide rocker. Gold over nickel plated brass contacts & terminals. Blue glass filled PBT body. UL94V-0. O-ring bushing seal. Epoxy terminal seal. S.P. body size .200" w x .320" h x .320" d. D.P. body size .360" w x .320" h x .320" d. Process compatible.

MODEL NO.	CIRCUIT	ACTION
TR36P00000012	SPDT	On-None-On
TR39P00000012		On-Off-On
TR37P00000012		(On)-Off-(On)
TR38P00000012		On-Off-(On)
TR32P00000012		On-None-(On)
TR46P00000012	DPDT	On-None-On
TR49P00000012		On-Off-On
TR47P00000012		(On)-Off-(On)
TR48P00000012		On-Off-(On)
TR42P00000012		On-None-(On)
TR36Y00005012	SPDT	On-None-On
TR39Y00005012		On-Off-On
TR37Y00005012		(On)-Off-(On)
TR38Y00005012		On-Off-(On)
TR32Y00005012		On-None-(On)
TR46Y00005012	DPDT	On-None-On
TR49Y00005012		On-Off-On
TR47Y00005012		(On)-Off-(On)
TR48Y00005012		On-Off-(On)
TR42Y00005012		On-None-(On)
TR36W00005012	SPDT	On-None-On
TR39W00005012		On-Off-On
TR37W00005012		(On)-Off-(On)
TR38W00005012		On-Off-(On)
TR32W00005012		On-None-(On)
TR46W00005012	DPDT	On-None-On
TR49W00005012		On-Off-On
TR47W00005012		(On)-Off-(On)
TR48W00005012		On-Off-(On)
TR42W00005012		On-None-(On)
TR36WW00005012	SPDT	On-None-On
TR39WW00005012		On-Off-On
TR37WW00005012		(On)-Off-(On)
TR38WW00005012		On-Off-(On)
TR32WW00005012		On-None-(On)
TR46WW00005012	DPDT	On-None-On
TR49WW00005012		On-Off-On
TR47WW00005012		(On)-Off-(On)
TR48WW00005012		On-Off-(On)
TR42WW00005012		On-None-(On)
TR36MW00000012	SPDT	On-None-On
TR39MW00000012		On-Off-On
TR37MW00000012		SPDT (On)-Off-(On)
TR38MW00000012		On-Off-(On)
TR32MW00000012		On-None-(On)
TR46MW00000012	DPDT	On-None-On
TR49MW00000012		On-Off-On
TR47MW00000012		DPDT (On)-Off-(On)
TR48MW00000012		On-Off-(On)
TR42MW00000012		On-None-(On)



STR'T P.C. TERMS. NO BRKT.



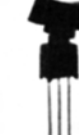
STR'T P.C. TERMS. W/BRKT.



RT. ANGLE HOR. PC TERMS.



RT. ANGLE VERT. PC TERMS.



WIRE-WRAP TERMINALS

S series miniature sealed rocker switches (p.c. mt.)

Contact rating 0.4 volt-amps (VA) max. at 20 volts max. (AC or DC). Operating temp. range -20° C to +85° C. Black polyamide rocker. Gold over nickel plated brass contacts & terminals. Glass filled polyamide body, UL94V-0. O-ring bushing seal. Epoxy terminal seal. S.P. body size .500" w x .259" h x .425" d. D.P. body size .500" w x .446" h x .425" d. Process compatible.

MODEL NO.	CKT.	ACTION	
SW236CD6+U622 SW239CD6+U622 SW237CD6+U622 SW238CD6+U622 SW232CD6+U622	SPDT	On-None-On On-Off-On (On)-Off-(On) On-Off-(On) On-None-(On)	
SW246CD6+U622 SW249CD6+U622 SW247CD6+U622 SW248CD6+U622 SW242CD6+U622 SW244THCD6+U622	DPDT	On-None-On On-Off-On (On)-Off-(On) (On)-Off-(On) On-None-(On) On-On-On	
SWW236CD6+U622 SWW239CD6+U622 SWW237CD6+U622 SWW238CD6+U622 SWW232CD6+U622	SPDT	On-None-On On-Off-On (On)-Off-(On) On-Off-(On) On-None-(On)	
SWW246CD6+U622 SWW249CD6+U622 SWW247CD6+U622 SWW248CD6+U622 SWW242CD6+U622 SWW244THCD6+U622	DPDT	On-None-On On-Off-On (On)-Off-(On) (On)-Off-(On) On-None-(On) On-On-On	
SY236CD6+U622 SY239CD6+U622 SY237CD6+U622 SY238CD6+U622 SY232CD6+U622	SPDT	On-None-On On-Off-On (On)-Off-(On) On-Off-(On) On-None-(On)	
SY246CD6+U622 SY249CD6+U622 SY247CD6+U622 SY248CD6+U622 SY242CD6+U622 SY244THCD6+U622	DPDT	On-None-On On-Off-On (On)-Off-(On) (On)-Off-(On) On-None-(On) On-On-On	
SY236CD6+U622 SY239CD6+U622 SY237CD6+U622 SY238CD6+U622 SY232CD6+U622	SPDT	On-None-On On-Off-On (On)-Off-(On) On-Off-(On) On-None-(On)	
SY246CD6+U622 SY249CD6+U622 SY247CD6+U622 SY248CD6+U622 SY242CD6+U622 SY244THCD6+U622	DPDT	On-None-On On-Off-On (On)-Off-(On) (On)-Off-(On) On-None-(On) On-On-On	
SWW236CD6X653+U622 SWW239CD6X653+U622 SWW237CD6X653+U622 SWW238CD6X653+U622 SWW232CD6X653+U622	SPDT	On-None-On On-Off-On (On)-Off-(On) On-Off-(On) On-None-(On)	
SWW246CD6X653+U622 SWW249CD6X653+U622 SWW247CD6X653+U622 SWW248CD6X653+U622 SWW242CD6X653+U622 SWW244THCD6X653+U622	DPDT	On-None-On On-Off-On (On)-Off-(On) (On)-Off-(On) On-None-(On) On-On-On	
			
			

SR series mini. sealed rocker switches (panel mt.)

Contact rating 0.4 volt-amps (VA) max. at 20 volts max. (AC or DC). Operating temp. range -20° C to +85° C. Black polyamide rocker. Gold over nickel plated brass contacts & terminals. Glass filled polyamide body, UL94V-0. O-ring bushing seal. Epoxy terminal seal. S.P. body size .500" w x .259" h x .425" d. D.P. body size .500" w x .446" h x .425" d. Mounts in .610" x 1.082" panel cutout. Process compatible.

MODEL NO.	CIRCUIT	ACTION	
SR36S010012 SR39S010012 SR37S010012 SR37S010012 SR32S010012	SPDT	On-None-On On-Off-On (On)-Off-(On) On-Off-(On) On-None-(On)	
SR46S010012 SR49S010012 SR47S010012 SR48S010012 SR42S010012 SR44S010012	DPDT	On-None-On On-Off-On (On)-Off-(On) (On)-Off-(On) On-None-(On) On-On-On	

7000 series miniature rocker/lever switches (pnl. mt.)

Contact rating 6 amps at 120 VAC or 3 amps at 250 VAC or 4 amps at 30 VDC. Operating temperature range -40° C to 85° C. Black polyamide actuator/bezel. Silver contacts. Silver plated brass terminals. Diallyl phthalate case. Epoxy term. seal. Mounting hardware included. S.P. body size .275" w x .500" h x .433" d. D.P. body size .500" w x .472" h x .433" d. Mounts in panel cutout. UL & CSA listing available - consult factory. Dry ckt. models with gold over nickel conds. & terms. and rating of 0.4 volt-amps (VA) max. at 20 volts max. also available. To specify, substitute 'CD' for 'A' in model number below.

MODEL NO.	CKT.	ACTION	
7636AB+U732+U1202 7639AB+U732+U1202 7637AB+U732+U1202 7638AB+U732+U1202 7632AB+U732+U1202	SPDT	On-None-On On-Off-On (On)-Off-(On) On-Off-(On) On-None-(On)	
7646AB+U732+U1202 7649AB+U732+U1202 7647AB+U732+U1202 7648AB+U732+U1202 7642AB+U732+U1202 7644THAB+U732+U1202	DPDT	On-None-On On-Off-On (On)-Off-(On) (On)-Off-(On) On-None-(On) On-On-On	
7236AB+U732+U1202 7239AB+U732+U1202 7237AB+U732+U1202 7238AB+U732+U1202 7232AB+U732+U1202	SPDT	On-None-On On-Off-On (On)-Off-(On) On-Off-(On) On-None-(On)	
7246AB+U732+U1202 7249AB+U732+U1202 7247AB+U732+U1202 7248AB+U732+U1202 7242AB+U732+U1202 7244THAB+U732+U1202	DPDT	On-None-On On-Off-On (On)-Off-(On) (On)-Off-(On) On-None-(On) On-On-On	
7736AB+U532 7739AB+U532 7737AB+U532 7738AB+U532 7732AB+U532	SPDT	On-None-On On-Off-On (On)-Off-(On) On-Off-(On) On-None-(On)	
7746AB+U532 7749AB+U532 7747AB+U532 7748AB+U532 7742AB+U532 7744THAB+U532	DPDT	On-None-On On-Off-On (On)-Off-(On) (On)-Off-(On) On-None-(On) On-On-On	
7936AB+U532 7939AB+U532 7937AB+U532 7938AB+U532 7932AB+U532	SPDT	On-None-On On-Off-On (On)-Off-(On) On-Off-(On) On-None-(On)	
7946AB+U532 7949AB+U532 7947AB+U532 7948AB+U532 7942AB+U532 7944THAB+U532	DPDT	On-None-On On-Off-On (On)-Off-(On) (On)-Off-(On) On-None-(On) On-On-On	
7736NAB+U622 7739NAB+U622 7737NAB+U622 7738NAB+U622 7732NAB+U622	SPDT	On-None-On On-Off-On (On)-Off-(On) On-Off-(On) On-None-(On)	
7746NAB+U622 7749NAB+U622 7747NAB+U622 7748NAB+U622 7742NAB+U622 7744NTHAB+U622	DPDT	On-None-On On-Off-On (On)-Off-(On) (On)-Off-(On) On-None-(On) On-On-On	
7936NAB+U622 7939NAB+U622 7937NAB+U622 7938NAB+U622 7932NAB+U622	SPDT	On-None-On On-Off-On (On)-Off-(On) On-Off-(On) On-None-(On)	
7946NAB+U622 7949NAB+U622 7947NAB+U622 7948NAB+U622 7942NAB+U622 7944NTHAB+U622	DPDT	On-None-On On-Off-On (On)-Off-(On) (On)-Off-(On) On-None-(On) On-On-On	

2

SWITCHES & KNOBS

2600 series Industrial illuminated & non-illuminated snap-in power rocker switches

Contact ratings for On-None-Off & On-None-On actions: 10 amps at 380 VAC or 16 amps at 250 VAC or 20 amps at 125 VAC. Other actions: 10 amps at 250 VAC or 15 amps at 125 VAC. Also 1/6 HP 125/250 VAC. Operating temperature range -10° C to +55° C. Polycarbonate actuator. Black polyamide frame. Silver contacts. Melamine/polyester case. Lamps: 110 VAC neon for red & amber rockers, 110 VAC fluorescent for green rocker. Other rocker colors available - consult factory. Snap fits (no hdwre.) in .866" x 1.181" cutout in panels .031" to .157" tk. Models with solder lug terms. listed below - omit '2' from Model no. for screw type terms. with clamps. UL, CSA & VDE recognized.

MOD. NO. (non-ill. black)	CKT.	ACTION
2631LH/2A212000L0	SPST	On-None-Off
2636LH/2A212000L0	SPDT	On-None-On
2639LH/2A212000L0	SPDT	On-Off-On
2641LH/2A212000L0	DPST	On-None-Off
2645LH/2A212000L0	DPDT	Mom-None-On
2646LH/2A212000L0	DPDT	On-None-On
2647LH/2A212000L0	DPDT	Mom-Off-Mom
2648LH/2A212000L0	DPDT	On-Off-Mom
2649LH/2A212000L0	DPDT	On-Off-On
MOD. NO. (ill. green)	CKT.	ACTION
2641LH/2A21300L110V3	DPST	On-None-Off
2646LH/2A21300L110V3	DPDT	On-None-On
2649LH/2A21300L110V3	DPDT	On-Off-On
MOD. NO. (ill. red)	CKT.	ACTION
2641LH/2A21600L110V	DPST	On-None-Off
2646LH/2A21600L110V	DPDT	On-None-On
2649LH/2A21600L110V	DPDT	On-Off-On
MOD. NO. (ill. amber)	CKT.	ACTION
2641LH/2A21900L110V	DPST	On-None-Off
2646LH/2A21900L110V	DPDT	On-None-On
2649LH/2A21900L110V	DPDT	On-Off-On
MOD. NO. (ill. red)	CKT.	ACTION
2641LP/2A21600L110V	DPST	On-None-Off
2646LP/2A21600L110V	DPDT	On-None-On
2649LP/2A21600L110V	DPDT	On-Off-On



AS series miniature snap-in rocker switches

Contact ratings: S0 models- 4 amps at 125 VAC or 2 amps at 250 VAC (silver contacts & terminals). P0 models- 0.4 volt-amps (VA) max. at 20 volts max. (gold plated contacts & terminals). Operating temperature range -40° C to +85° C. Black polyamide rocker. Black PES case. Other rocker colors available - consult factory. Snap fits (no hardware) in .350" x .734" panel cutout. S0 models below are UL & CSA recognized.

MODEL NO.	CIRCUIT	ACTION
AS36S010010	SPDT	On-None-On
AS39S010010		On-Off-On
AS37S010010		(On)-Off-(On)
AS38S010010		On-Off-(On)
AS32S010010	SPDT	On-None-(On)
AS36P0000		On-None-On
AS39P0000		On-Off-On
AS37P0000		(On)-Off-(On)
AS38P0000	SPDT	On-Off-(On)
AS32P0000		On-None-(On)



R series Industrial illuminated & non-illuminated snap-in power rocker switches

Contact ratings: 16A 125 VAC 1/4 HP (UL/CSA). 16A 250 VAC 1/4 HP (UL/CSA). 16(4)A 250 V - T85 (VDE) & 10(2)A 250 V - +++ (VDE, SEMCO, NEMCO, DEMCO, FIMCO & SEV). Op. temp. range -30° C to +80° C. Non-illum. models have black nylon rocker. Illum. model has orange rocker and 125V neon lamp. Black nylon case. .250" x .032" quick connect terminals. Other rocker colors available - consult factory. Snap fits in .878" x 1.213" panel cutout in panels up to .083" thick.

MOD. NO. (non-ill.)	CIRCUIT	ACTION
R110C2BB	SPST	On-Off
R120C2BB	SPDT	On-None-On
R210C2BB	DPST	On-Off
R220C2BB	DPDT	On-None-(On)
MOD. NO. (illum.)	CIRCUIT	ACTION
R210F2LBO	DPST	On-Off



MR series Industrial illuminated & non-illuminated snap-in power rocker switches

Contact ratings: 10A 125 VAC 1/4 HP (UL). 8A 250 VAC 1/4 HP (UL). 12A 125 VAC 1/4 HP (CSA). 8(4)A 250V - T85 (VDE, SEMCO, NEMCO, DEMCO, FEMCO & SEV). Op. temp. range -30° C to +80° C. Non-illum. models have black nylon rocker. Illum. model has orange rocker and 125V neon lamp. Black nylon case. .189" x .032" quick connect terminals. Other rocker colors available - consult factory. Snap fits in .508" x .756" - .780" panel cutout in panels .030" to .118" thick.

MOD. NO. (non-ill.)	CIRCUIT	ACTION
MR110C2BB	SPST	On-Off
MR210C2BB	DPST	On-Off
MOD. NO. (illum.)	CIRCUIT	ACTION
MR210C2LBO	DPST	On-Off



B series Industrial illuminated & non-illuminated snap-in power rocker switches

Contact ratings: 15A 125 VAC (UL & CSA). 10A 250 VAC (UL & CSA). Op. temp. range -30° C to +80° C. Non-illum. models have black nylon rocker. Illum. models have orange rocker and 125V neon lamp. Black nylon case. .250" x .032" quick connect terminals. Other rocker colors available - consult factory. Snap fits in .550" x 1.125" panel cutout in panels up to .083" thick.

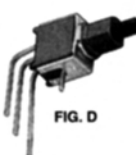
MOD. NO. (non-ill.)	CIRCUIT	ACTION
B110R2BBNN	SPDT	On-None-On
B120R2BBNN	SPDT	On-Off-On
B160R2BBNN	SPST	On-Off
MOD. NO. (illum.)	CIRCUIT	ACTION
B110R2LBO1NN	SPDT	On-None-On
B160R2LBO1NN	SPST	On-Off



TP series tiny sealed pushbutton switches (p.c. mt.)

SPDT & DPDT momentary action. Contact rating 0.4 volt-amps (VA) max. at 20 volts max. Operating temp. range -30° C to 85° C. Black glass polyester actuator. Gold over nickel plated brass contacts & terminals. PBT body. O-ring bushing seal. Epoxy terminal seal. S.P. body size .196" w x .318" h x .318" d. D.P. body size .358" w x .318" h x .318" d. Sealed for process compatibility.

MODEL NO.	CKT.	ACTION	FIG.
TP32P003000	SPDT	On-(On)	A
TP33P003000	SPST	Off-(On)	A
TP42P003000	DPDT	On-(On)	A
TP43P003000	DPST	Off-(On)	A
TP32Y0030050	SPDT	On-(On)	B
TP33Y0030050	SPST	Off-(On)	B
TP42Y0030050	DPDT	On-(On)	B
TP43Y0030050	DPST	Off-(On)	B
TP32W003050	SPDT	On-(On)	C
TP33W003050	SPST	Off-(On)	C
TP42W003050	DPDT	On-(On)	C
TP43W003050	DPST	Off-(On)	C
TP32WW03050	SPDT	On-(On)	D
TP33WW03050	SPST	Off-(On)	D
TP42WW03050	DPDT	On-(On)	D
TP43WW03050	DPST	Off-(On)	D
TP32MW03000	SPDT	On-(On)	E
TP33MW03000	SPST	Off-(On)	E
TP42MW03000	DPDT	On-(On)	E
TP43MW03000	DPST	Off-(On)	E



1200 series power pushbutton switches-12 mm bush.

SPST mom. action. Contact rating 4 amps at 250 VAC or 8 amps at 125 VAC or 4 amps at 24 VDC. Black polyamide actuator. Note-last digit of model no. is actuator color- 2 = black. Specify to 6 for red or 7/1 for white. Black polyamide case. Silver contacts and terms. Mtg. hardware included. Body size .551" w x .669" h x .834" d. X209 model is UL/CSA & VDE recognized. UU models UL & CSA recognized.

MODEL NO.	ACT.	TERMINALS
1212A2	NC	Solder lug/quick connect
1213A2UU	NO	Solder lug/quick connect
1222A2	NC	Screw type
1223A2UU	NO	Screw type
1202A2	NC	Screw type w/clamp
1203A2UU	NO	Screw type w/clamp
1233A2X209UU	NO	Solder lug/quick connect



300 series miniature mom. pushbutton switches






SPST momentary action. Contact rating 3 amp at 120 VAC or 28 VDC or 1.5 amp at 250 VAC. Operating temp. range -30° C to 85° C. Black nylon actuator. Nickel plated brass bushing. Coin silver contacts. Silver plated brass terms. Epoxy term. seal. Hex nut and lockwasher included except bezel unit which requires no mtg. hardware. Body size .301, .303 & .305 - .370" dia. x .429" long. .302 & .304 - .370" dia. x .319" long. Bezel & cap color - black for J81 model. Dry ckt. models w/gold over nickel conds. & terms. and rating of 0.4 volt-amps (VA) max. at 20 volts max. also available. To specify, substitute 'B' for 'Q' in model number below.

MODEL NO.	ACTION	TRAVEL	FIG.
301ZQE	Off-(On)	.110" total, .020" min. overtravel	A
301CQE	Off-(On)	.110" total, .020" min. overtravel	B
301SZQE/J81	Off-(On)	.110" total, .020" min. overtravel	C
302ZQE	Off-(On)	.060" total, no overtravel	D
303ZQE	On-(Off)	.055" total, .020" min. pretravel	A
304ZQE	On-(Off)	.040 total, no overtravel	A
305ZQE	Off-(On)	.110" total, .060" min. overtravel	D

400 series min. mom. & maint. pushbutton switches





SPST latching & mom. action. Contact rating 3 amp at 120 VAC or 28 VDC or 1.5 amp at 250 VAC. Operating temp. range -30° C to 85° C. White nylon actuator. Nickel plated brass bushing. Coin silver contacts. Silver plated brass terminals. Epoxy terminal seal. Panel dress nut and lockwasher included except bezel unit which requires no mounting hardware. Body size .370" dia. x .625" long. Bezel and cap color - black for J81 models. Dry ckt. models w/gold over nickel conds. & terms. and rating of 0.4 volt-amps (VA) max. at 20 volts max. also available. To specify, substitute 'B' for 'Q' in model number below.

MODEL NO.	ACTION	FIG.	MODEL NO.	ACTION	FIG.
401ZQE	On-Off	A	402ZQE	Off-(On)	A
401CQE	On-Off	B	402CQE	Off-(On)	B
401SZQE/J81	On-Off	C	402SZQE/J81	Off-(On)	C

9000 series subminiature mom. pushbutton switches

SP NO & NC actions. Contact rating 100 mA at 30 VDC. Operating temp. range -30° C to 65° C. Black glass polyamide actuator. Gold over nickel plated brass contacts & terminals. PPS case. Nickel plated brass bushing. Epoxy terminal seal. Body size .255" dia. x .314" long for self-cleaning contacts and .240" long for butt action contacts. Mounting nut included for panel mtg. models. Mounts in .165" dia. panel hole.

Self-cleaning contacts		
MODEL NO.	ACT.	FIG.
9532CD	NC	A
9533CD	NO	A
9232CD	NC	B
9233CD	NO	B
9232YCD	NC	C
9233YCD	NO	C
9232WWCD	NC	D
9233WWCD	NO	D




butt action contacts		
MODEL NO.	ACT.	FIG.
9533NCD	NO	A
9133CD	NO	B
9133YCD	NO	C
9133WWCD	NO	D




9000 series miniature mom. pushbutton switches

SP NO, NC & NC/NO mom. actions. Contact ratings: Model no's with 'A', -0.6 amps at 125 VAC, 0.3 amps at 250 VAC or 1 amp at 30 VDC (silver contacts & terms.). Model no's with 'CD' - 100 mA at 30 VDC. (gold plated contacts & terms.). Operating temp. -30° C to 65° C. Black glass polyamide actuator. X model has metal actuator. Dialyl phthalate case. Nickel plated bushing. Epoxy term. seal. Body size .393" dia. x. approx. .334" .466 long. Mtg. hdw. included for panel mtg. models. Mounts in .255" dia. hole.










MODEL NO.	ACT.	FIG.
9632AB	NC	A
9635AB	NC/NO	A
9432CDB	NC	B
9433CDB	NO	B
9435CDB	NC/NO	B
9432YCDB	NC	C
9433YCDB	NO	C
9435YCDB	NC/NO	C
9633NAB	NO	D
9433NCDB	NO	E
9633AX1146	NO	F

IP series sealed momentary pushbutton switches






SP NO mom. action with double break. Contact ratings: 500 mA at 48 VAC, 200 mA at 50 VDC or 200 mA at 250 VAC. (gold plated silver contacts). Operating temp. range -40° C to 125° C. Polyamide 6/6 actuator. Zamac bushing & bezel. Bezel color black. PBT UL94V-0 case. Solder lug terminals or 20 AWG flexible wire leads. Totally sealed (per IP 67). Bezel size .688" dia. or square. Body size .472" dia. x approx. 1/2" - 3/4" long. Mounting hardware included. Mounts in 535" dia. panel hole.

MODEL NUMBER	ACT. COLOR	FIG.	MODEL NUMBER	ACT. COLOR	FIG.
IPR3SAD1	Blue	A	IPR3FAD1	Blue	B
IPR3SAD2	Black	A	IPR3FAD2	Black	B
IPR3SAD3	Green	A	IPR3FAD3	Green	B
IPR3SAD5	Yellow	A	IPR3FAD5	Yellow	B
IPR3SAD6	Red	A	IPR3FAD6	Red	B
IPR3SAD9	Orange	A	IPR3FAD7	Orange	B

MODEL NUMBER	ACT. COLOR	FIG.	MODEL NUMBER	ACT. COLOR	FIG.
IPC3SAD1	Blue	C	IPC3FAD1	Blue	D
IPC3SAD2	Black	C	IPC3FAD2	Black	D
IPC3SAD3	Green	C	IPC3FAD3	Green	D
IPC3SAD5	Yellow	C	IPC3FAD5	Yellow	D
IPC3SAD6	Red	C	IPC3FAD6	Red	D
IPC3SAD9	Orange	C	IPC3FAD9	Orange	D

SP series miniature sealed momentary pushbutton switches (p.c. and panel mt.)

Single pole-double throw & double pole-double throw models. On - Mom action. Contact rating 0.4 volt-amps (VA) max. at 20 volts max. (AC or DC). Operating temp. range -20° C to +85° C. Gold over nickel plated brass contacts & terminals. Glass filled polyamide body & actuator, UL94V-0. O-ring bushing seal. Epoxy terminal seal. S.P. body size .500" w x .259" h x .425" d. D.P. body size .500" w x .446" h x .425" d. Panel mounting mo-dels mount in .255" dia. hole with included hardware. Process compatible.

SP series miniature sealed momentary pushbutton switches (p.c. and panel mt.) (cont.).

FIG. A
P.C. TERMS.

FIG. B
P.C. TERMS W/BRKT.

FIG. C
RT. ANGLE HOR.
P.C. TERMS.

FIG. D
RT. ANGLE VERT.
P.C. TERMS.

MODEL NO.	CKT.	FIG.
SP35P000000	SPDT	A
SP45P000000	DPDT	A
SP35Y000000	SPDT	B
SP45Y000000	DPDT	B
SP35W000000	SPDT	C
SP45W000000	DPDT	C
SP35W000000	SPDT	D
SP45W000000	DPDT	D
SP35S000077	SPDT	E
SP35P000077	SPDT	F

FIG. E
THD'D BUSHING
SOLD. LUG TERMS.

FIG. F
THD'D BUSHING
P.C. TERMS.

18000 series miniature snap action momentary pushbutton switches (panel mt.)

FIG. A
SOLD. LUG TERMS.

FIG. B
P.C. TERMINALS

FIG. C
SNAP-IN MTG/SOLD.
LUG TERMS.

Contact rating 1 amp at 120 VAC or 30 VDC. Operating temp. range -30° C to 65° C. Glass filled polyamide actuator. Nickel plated brass bushing. Gold plated silver contacts. Silver plated brass terminals. Diallyl phthalate case. Tin plated steel bracket. Epoxy term. seal. Mounting hardware included. S.P. body size .275" w x .519" h x .472" d. D.P. body size .472" w x .519" h x .472" d. Mounts in .255" hole (except snap-in models). Snap-in models have black bezel & cap & mount in .492" x .590" panel cutout.

MOD. NO.	CKT.	FIG.	MODEL NUMBER	CKT.	FIG.
18535AD	SPDT	A	18245AD	DPDT	B
18545AD	DPDT	A	18835AD+U912+U1202	SPDT	C
18235AD	SPDT	B	18845AD+U912+U1202	DPDT	C

18000 series miniature snap action momentary pushbutton switches (p.c. mt.)

FIG. A
BRACKET MTG.
MOUNTING

FIG. B
RT. ANGLE
HOR. MTG.

FIG. C
SHORT BRKT. MTG.
W. SHORT ACT. & BUSH.

FIG. D
SNAP-IN
MOUNTING

Contact rating 100 mA at 30 VDC. Operating temp. range -30° C to 65° C. Glass filled polyamide actuator. Nickel plated brass bushing. Gold plated brass contacts and terminals. Diallyl phthalate case. Tin plated steel bracket. Epoxy term. seal. S.P. body size .275" w x .519" h x .472" d. D.P. body size .472" w x .519" h x .472" d. Snap-in models have black bezel & cap & mount in .492" x .590" panel cutout.

MOD. NO.	CKT.	FIG.	MODEL NUMBER	CKT.	FIG.
18235YCD3	SPDT	A	18235YCD2X624	SPDT	C
18245YCD3	DPDT	A	18245YCD2X624	DPDT	C
18235WCD3	SPDT	B	18835CDX662	SPDT	D
18245WCD3	DPDT	B	18845CDX662	DPDT	D

8000 series miniature momentary or alternate action pushbutton switches (p.c. and panel mt.)

FIG. A
SOLDER LUG
TERMINALS

FIG. B
P.C. TERMS.

FIG. C
RIGHT ANGLE
P.C. TERMS.

Contact ratings: Model no's with 'A', - 6 amps at 125 VAC, 3 amps at 250 VAC or 4 amps at 30 VDC (gold plated silver contacts). Model no's. with 'CD' - 0.4 VA at 20 V. (gold plated brass contacts & terms.). Operating temp. range -40° C to 85° C. Nickel plated brass actuator & bushing. Diallyl phthalate case. Stainless steel housing. Epoxy term. seal. S.P. body size .275" w x .519" h x .767" d. D.P. body size .472" w x .519" h x .767" d. Mounts in .255" panel hole. Models with UL recognition available on request (silver contacts only).

SINGLE POLE- DOUBLE THROW			DOUBLE POLE- DOUBLE THROW		
MODEL NO.	ACTION	FIG.	MODEL NO.	ACTION	FIG.
8632AB	On Mom	A	8642AB	On Mom	A
8636AB	On On	A	8646AB	On On	A
8432AB	On Mom	B	8442AB	On Mom	B
8436AB	On On	B	8446AB	On On	B
8432WCDB	On Mom	C	8442WCDB	On Mom	C
8436WCDB	On On	C	8446WCDB	On On	C

4700 & 4800 series alternate action pushbutton switches (panel mt.)

FIG. A
SOLDER LUG
TERMINALS

FIG. B
P.C. TERMS.

FIG. C
QUICK CONNECT
TERMS. (.185" X .031")

SPST, SPDT, DPST & DPDT models. Contact ratings: 6 amps at 125 VAC or 3 amps at 250 VAC (silver contacts). Operating temp. range -20° C to 65° C. Polyamide actuator. Nickel plated brass bushing. Diallyl phthalate case. Epoxy term. seal. S.P. body size .472" w x .748" h x .550" d. D.P. body size .649" w x .826" h x .590" d. Mounts in .480" panel hole. 1 hex nut and one insulating knurled nut supplied. Color of knurled nut supplied in same color as actuator (specify below). Models ending with UU are UL, CSA & VDE recognized. Models not ending with UU are VDE recognized.

SINGLE POLE			DOUBLE POLE		
MODEL NO.	ACTION	FIG.	MODEL NO.	ACTION	FIG.
4731A02UU	On Off	A	4741A02UU	On Off	A
4736A02UU	On On	A	4746A02UU	On On	A
A4831A02	On Off	B	4841A02	On Off	B
4836A02	On On	B	4846A02	On On	B
47318A02UU	On Off	C			
47368A02UU	On On	C			

Note: Above models have black actuator and black knurled nut.
To specify a different color selection, replace the '02' in model number with the following color code:

Color	Code
Blue	01
Green	03
Yellow	05
Red	06
White	07/1
Orange	09

MD series pushbutton switches (p.c. and panel mt.)





FIG. A
2P2T P.C. MT.

FIG. B
2P2T PANEL MT.

FIG. C
4P2T P.C. MT.

1, 2 & 4 pole 2 throw models with momentary and maintained actions. Contact ratings: 200 mA at 30 VDC. Operating temp. -20° C to 85° C. Polyacetal actuator. Tin plated steel frame. Laminated phenolic base. Silver plated contacts & terminals. Body size .283" w x .378" h x .472" or .850" lg. Self-cleaning contacts. Panel mtg. models have M2 threaded mtg. hole.

MODEL NO.	CKT.	ACTION	FIG.
MDPS522PN	2P2T	Mom	A
MDPA522PN	2P2T	Maint	A
MDPS522WN	2P2T	Mom	B
MDPA522WN	2P2T	Maint	B
MDPS542PN	4P2T	Mom	C
MDPA542PN	4P2T	Maint	C
MDPS542WN	4P2T	Mom	D
MDPA542WN	4P2T	Maint	D
MDPS822PN	2P2T	Mom	E
MDPA822PN	2P2T	Maint	E



FIG. D
4P2T PANEL MT.



FIG. E
2P2T P.C. MT.
SHORT ACTUATOR

MD1 series TV rated pushbutton switches (panel mt.)

Double pole single throw alternate action. Contact ratings: UL - 7.5 amps at 125/250 VAC, TV5 & 8. CSA - 10 amps at 125/250 VAC, TV5 & 8. VDE, SEMCO, NEMCO, SETI, DEMCO & SEV - 8A/128A at 250 VAC μ T85. Operating temp. -10° C to 85° C. 30% glass fiber PBT actuator. Zinc plated steel frame. Phenolic base, 94V-O. Silver alloy contacts. Silver plated terminals. Body size .750" w x .760" h x 1.232" lg. Self-cleaning contacts. Panel mtg. with mtg. holes in frame.



MODEL NO.	TERMINALS	FIG.
MD12T5	SOLDER LUG	A
MD12L5	QUICK CONNECT	A

SOLDER LUG TERMS. SHOWN

MD2 series TV rated pushbutton switches (p.c. and panel mt.)

Single pole single throw alternate action. Contact ratings: UL & CSA - 15 amps at 125 VAC, 10 amps at 250 VAC, TV-5, VDE & SEMCO - 5A/80A at 250 VAC μ T85. Operating temperature 10° C to 85° C. PBT actuator, UL94V-2. Steel frame. Phenolic base, 94V-O. Silver alloy contacts. Silver plated terminals. Body size .378" w x .778" h x 1.075" lg. Self-cleaning contacts. Solder lug model has panel mounting holes in frame.



MODEL NO.	TERMINALS	FIG.
MD2BM4T1	SOLDER LUG	A
MD2CP4T3	PRINTED CIRCUIT	A

PRINTED CKT. TERMS. SHOWN

SLB series miniature slide switches (p.c. mtg.)

Contact rating 300 mA at 125 VAC or 30 VDC. Operating temperature range -20° C to 85° C. Thermoplastic actuator. Zinc plated steel combination p.c. bracket and frame. Phenolic laminated base. Silver plated contacts & terminals. Epoxy sealed terminals. Washable open frame construction. Vertical and right angle actuation models. Note - right angle actuation models have "R" in model no.

MODEL NUMBER	POLES/THROW	BODY SIZE (IN.) L W H
SLB1240R4.5	1P2T	.630X.264X.295
SLB12414.5	1P2T	.630X.264X.295
SLB1250R8	1P2T	.669X.315X.315
SLB12804	1P2T	.551X.244X.217



SLB series miniature slide switches (p.c. mtg.) (cont.)

MODEL NUMBER	POLES/THROW	BODY SIZE (IN.) L W H
SLB1280R5	1P2T	.551X.244X.217
SLB12814	1P2T	.551X.244X.217
SLB1281R5	1P2T	.551X.244X.217
SLB1340R4.5	1P3T	.630X.264X.295
SLB13414.5	1P3T	.630X.264X.295
SLB1370	1P3T	.787X.197X.295
SLB1370R	1P3T	.787X.295X.197
SLB13804	1P3T	.701X.244X.217
SLB1380R5	1P3T	.701X.244X.217
SLB13814	1P3T	.701X.244X.217
SLB1381R5	1P3T	.701X.244X.217
SLB1470	1P4T	.787X.197X.295
SLB1470R	1P4T	.787X.295X.197
SLB1570	1P5T	.866X.197X.295
SLB1570R	1P5T	.866X.295X.197
SLB2240R4.5	2P2T	.630X.264X.295
SLB22414.5	2P2T	.630X.264X.295
SLB22804	2P2T	.551X.244X.217
SLB2280R5	2P2T	.551X.244X.217
SLB22814	2P2T	.551X.244X.217
SLB2281R5	2P2T	.551X.244X.217
SLB2340R4.5	2P3T	.630X.264X.295
SLB23414.5	2P3T	.630X.264X.295
SLB23804	2P3T	.701X.244X.217
SLB2380R4.5	2P3T	.701X.244X.217
SLB23814	2P3T	.701X.244X.217
SLB2381R5	2P3T	.701X.244X.217





Anti-vandal single pole pushbutton switches





AV091003C900 **AV031003C900** **AV199035D200**

Momentary action. Vandal resistant anti-jam construction meets hammer blow specs. NFC 20-010. Stainless steel bushing & actuator. 2 sizes for mtg. in 19.2 or 22.2 mm panel hole. Hex mtg. nut supplied. Low-profile curved bezel with flat or curved act. Models ending in "E" have internal seal per IP65. Models ending in "K" have internal & panel seals per IP65. Models listed have either solder lug or screw terminals. Consult factory for additional specifications and models.

MODEL NO.	SIZE	ACT.	CIRCUIT	CONTACT RATING
AV091003C900	19.2	Flat	SP NO Mom	2A 48VDC
AV091003C900K	19.2	Flat	SP NO Mom	2A 48VDC
AV031003C900	22.2	Flat	SP NO Mom	2A 48VDC
AV199035D200	19.2	Curved	SP NC&NO Mom	1A 30V, 10 μ A 5V
AV199035D200E	19.2	Curved	SP NC&NO Mom	1A 30V, 10 μ A 5V
AV091003C940N	19.2	Flat	SP NO Mom	2A 48VDC
AV021202C000	22.2	Curved	SP NC Mom	3A 125VAC, 2A 250 VAC
AV09C703D200	19.2	Flat	SP NO Mom	50 mA 24 VDC
AV19C703D200K	19.2	Flat	SP NO Mom	50 mA 24 VDC

TG series microminiature slide switches

Contact ratings: Gold; 0.4 VA max. at 20 V max. Silver; 500 mA at 48 V max. (AC or DC) SPDT maintained circuit. Op. temp. range -30° C to 85° C. Thermoplastic actuator. Flame retardant thermoplastic case. Tin plated steel ground plate or bracket. Gold or silver plated contacts & terminals. Epoxy sealed terms. Washable models (ending in 50) have translucent silicone rubber seal. Body size .398" x .197" x .378".

MODEL NUMBER	CONT. MAT'L	ACTION
TG36P000000	Gold	on - on
TG39P000000	Gold	on off on
TG36P010000	Silver	on - on
TG39P010000	Silver	on off on
TG36P000050	Gold	on - on
TG39P000050	Gold	on off on
TG36P010050	Silver	on - on
TG39P010050	Silver	on off on



2
SWITCHES & KNOBS

TG series microminiature slide switches (cont.)

	MODEL NUMBER	CONT. MAT'L	ACTION	
Vertical p.c. mount. with bracket	TG36Y000000	Gold	on - on	
	TG39Y000000	Gold	on off on	
	TG36Y010000	Silver	on - on	
	TG39Y010000	Silver	on off on	
	TG36Y000050	Gold	on - on	
	TG39Y000050	Gold	on off on	
	TG36Y010050	Silver	on - on	
Rt. angle p.c. mount. with bracket	TG36W000000	Gold	on - on	
	TG39W000000	Gold	on off on	
	TG36W010000	Silver	on - on	
	TG39W010000	Silver	on off on	
	TG36W000050	Gold	on - on	
	TG39W000050	Gold	on off on	
	TG36W010050	Silver	on - on	
	TG39W010050	Silver	on off on	
				TRANSLUCENT SEAL SHOWN

GH series instrument grade miniature slide switches

Contact rating: 4 amps at 125 VAC, 2 amps at 250 VAC or 3 amps at 30 VDC. SPDT & DPDT main't'd. circuits. Op. temp. range -30° C to 85° C. Glass filled polyamide actuator. PES case. Stainless st. cover. Silver plated contacts & terms. Epoxy sealed terms. Body size approx. - SP .500"l x .262" w x .250" h. DP .500"l x .449" w x .299" h. Note - dry circuit models with gold plated contacts & terms. available - consult factory.

	MODEL NO.	CIRCUIT	ACTION	
Panel mtg. w/brkt.	GH36S010001	SPDT	on - on	
	GH39S010001	SPDT	on off on	
	GH46S010001	DPDT	on - on	
	GH49S010001	DPDT	on off on	
	GH36P010001	SPDT	on - on	
	GH39P010001	SPDT	on off on	
	GH46P010001	DPDT	on - on	
	GH49P010001	DPDT	on off on	
	GH36W010001	SPDT	on - on	
	GH39W010001	SPDT	on off on	
	GH46W010001	DPDT	on - on	
	GH49W010001	DPDT	on off on	
Actuator length approx. .200"	GH36WW10001	SPDT	on - on	
	GH39WW10001	SPDT	on off on	
	GH46WW10001	DPDT	on - on	
	GH49WW10001	DPDT	on off on	
	GH36Y010001	SPDT	on - on	
	GH39Y010001	SPDT	on off on	
	GH46Y010001	DPDT	on - on	
	GH49Y010001	DPDT	on off on	
	GH36Y410001	SPDT	on - on	
	GH39Y410001	SPDT	on off on	
	GH46Y410001	DPDT	on - on	
	GH49Y410001	DPDT	on off on	

25000 series miniature slide switches

Contact rating: 4 amps at 125 VAC, 2 amps at 250 VAC or 3 amps at 30 VDC. SPDT & DPDT main't'd. circuits. Op. temp. range -40° C to +85° C. Glass filled polyamide actuator and cover. PBT case. Silver plated contacts & terms. Epoxy sealed terms. Terminal spacing is .200" c to c. Body size- SP .555"l x .295" w x .319" h. DP same except .465" w. Note - dry circuit models with gold plated contacts & terminals available - consult factory.

	MODEL NO.	CIRCUIT	ACTION	
Vertical act. flush	25136NAB	SPDT	on - on	
	25139NAB	SPDT	on off on	
	25146NAB	DPDT	on - on	
	25149NAB	DPDT	on off on	
	25336NA	SPDT	on - on	
	25339NA	SPDT	on off on	
	25346NA	DPDT	on - on	
	25349NA	DPDT	on off on	
	25136NAH	SPDT	on - on	
	25139NAH	SPDT	on off on	
	25146NAH	DPDT	on - on	
	25149NAH	DPDT	on off on	
100° c to c terminal spacing	25336NA6	SPDT	on - on	
	25339NA6	SPDT	on off on	
	25346NA6	DPDT	on - on	
	25349NA6	DPDT	on off on	
	25436NAB	SPDT	on - on	
	25439NAB	SPDT	on off on	
	25446NAB	DPDT	on - on	

25000 series miniature slide switches (cont.)

	MODEL NO.	CIRCUIT	ACTION	
200° c to c terminal spacing	25449NAB	DPDT	on off on	
	25536NA	SPDT	on - on	
	25539NA	SPDT	on off on	
	25546NA	DPDT	on - on	
	25549NA	DPDT	on off on	
	25436NAH	SPDT	on - on	
	25439NAH	SPDT	on off on	
	25446NAH	DPDT	on - on	
	25449NAH	DPDT	on off on	
	25536NA6	SPDT	on - on	
	25539NA6	SPDT	on off on	
	25546NA6	DPDT	on - on	
	25549NA6	DPDT	on off on	

PT65 series DIP coded rotary switches

Contact rating : Carry - 400 mA max. at 24 VDC; Switching - 150 mA max. at 24 VDC. Op. temp. range -20° C to +70° C. Glass filled thermoplastic body, color - lt. gray. Glass filled thermoplastic actuator, color - dk. gray. Internal o-ring actuator seal. Contacts gold over nickel plated. Molded-in solder coated terms.. 10 & 16 position models. Body size .393" sq. x .256" high. Process compatible. Code 1: BCD (2 common terms.). Code 2: BCD complement. Code 3: Hexadecimal. Code 6: Hex. comp. Code 5: Gray code

MODEL NO. BY TERMINAL STYLE					
CODE	STRAIGHT ".200" X ".300"	RIGHT ANGLE AT PITCH =			
		".100"	".200"		
1	PT65101	PT65101L254	PT65101L508	PT65101	
2	PT65102	PT65102L254	PT65102L508		
3	PT65103	PT65103L254	PT65103L508		
4	PT65106	PT65106L254	PT65106L508		
5	PT65105	PT65105L254	PT65105L508		
1	PT65301	PT65301L254	PT65301L508	PT65301	
2	PT65302	PT65302L254	PT65302L508		
3	PT65303	PT65303L254	PT65303L508		
4	PT65306	PT65306L254	PT65306L508		
5	PT65305	PT65306L254	PT65306L508		
1	PT65501	PT65501L254	PT65501L508	PT65501	
2	PT65502	PT65502L254	PT65502L508		
3	PT65503	PT65503L254	PT65503L508		
4	PT65506	PT65506L254	PT65506L508		
5	PT65505	PT65505L254	PT65506L508		

DS & DP series DIP switches

Contact rating : Carry - 100 mA max. at 50 VDC; Switching - 50 mA max. at 24 VDC. Op. temp. range -40° C to +70° C. UL94V-O case, color - red. UL94V-O actuator, color - white. Contacts & terms. gold over nickel over phosphor bronze. Epoxy sealed terms.. Std'd. DIP package term. spacing of .100" x .300". Process compatible when optional tape seal is specified. SPST Off-On action.

ACTUATOR STYLE	MOD. NO. NO TAPE SEAL	MOD. NO. W/TAPE SEAL	NO. OF POS.	
RAISED ACTUATOR	DS02	DS02T	2	
	DS03	DS03T	3	
	DS04	DS04T	4	
	DS05	DS05T	5	
	DS06	DS06T	6	
	DS07	DS07T	7	
	DS08	DS08T	8	
	DS09	DS09T	9	
	DS10	DS10T	10	
	DS12	DS12T	12	
RECESSED ACTUATOR	DP02	DP02T	2	
	DP03	DP03T	3	
	DP04	DP04T	4	
	DP05	DP05T	5	
	DP06	DP06T	6	
	DP07	DP07T	7	
	DP08	DP08T	8	
	DP09	DP09T	9	
	DP10	DP10T	10	
	DP12	DP12T	12	

Consult factory for extensive DIP switch listings.

DSR, DA & DPL series DIP switches

Contact rating : Carry - 100 mA max. at 50 VDC; Switching - 50 mA max. at 24 VDC. Op. temp. range -40° C to +70° C. UL94V-O case, color - red. UL94V-O actuator, color - white. Contacts & terms. gold over nickel over phosphor bronze. Epoxy sealed terms.. Std'd. DIP package term. spacing of .100" x .300" (.100" x .100" for DA models). Process compatible when optional tape seal is specified. SPST Off-On action.

ACT- UATOR STYLE	MOD. NO. NO TAPE SEAL	MOD. NO. W/TAPE SEAL	NO. OF POS.	
RECESSED ACTUATOR	DSR02	DSR02T	2	
	DSR03	DSR03T	3	
	DSR04	DSR04T	4	
	DSR05	DSR05T	5	
	DSR06	DSR06T	6	
	DSR07	DSR07T	7	
	DSR08	DSR08T	8	
	DSR09	DSR09T	9	
	DSR10	DSR10T	10	
	DSR12	DSR12T	12	
RAISED ACT.	DA04	DA04T	4	
	DA05	DA05T	5	
	DA06	DA06T	6	
	DA07	DA07T	7	
	DA08	DA08T	8	
	DA09	DA09T	9	
	DA10	DA10T	10	
EXTENDED ACT.	DPL02	DPL02T	2	
	DPL03	DPL03T	3	
	DPL04	DPL04T	4	
	DPL05	DPL05T	5	
	DPL06	DPL06T	6	
	DPL07	DPL07T	7	
	DPL08	DPL08T	8	
	DPL09	DPL09T	9	
	DPL10	DPL10T	10	
	DPL12	DPL12T	12	

DIR series DIP switches

Contact rating : Carry - 100 mA max. at 50 VDC; Switching - 25 mA max. at 24 VDC. Op. temp. range -40° C to +85° C. UL94V-O base & cover, color - black. UL94V-O actuator, color - white. Contacts gold over nickel plated brass. Epoxy sealed tin/lead plated brass terms.. Std'd. DIP package term. spacing of .100" x .300" Process compatible when optional tape seal is specified. SPST Off-On action. Auto-insertable spread terminals.

ACT- UATOR STYLE	MOD. NO. NO TAPE SEAL	MOD. NO. W/TAPE SEAL	NO. OF POS.	
RAISED	D101S	-	1	
	D102S	-	2	
	D104S	-	4	
	D106S	-	6	
	D108S	-	8	
	D110S	-	10	
RECESSED	DIR01S	DIR01ST	1	
	DIR02S	DIR02ST	2	
	DIR04S	DIR04ST	4	
	DIR06S	DIR06ST	6	
	DIR08S	DIR08ST	8	
	DIR10S	DIR10ST	10	

DHS series 1/2 pitch surface mount DIP switches

Contact rating : Carry - 100 mA max. at 50 VDC; Switching - 100 mA max. at 6 VDC. Op. temp. range -40° C to +80° C. UL94V-O base & cover, color - black. UL94V-O actuator, color - yellow. Contacts gold plated beryllium copper. Epoxy sealed gold plated brass terms. Term. spacing .050" x .315". Process compatible with standard tape seal. SPST Off-On action. Auto-insertable and reflow solderable. Ultra-compact .244" w x .087" h.

ACT- UATOR STYLE	MOD. NO. W/TAPE SEAL	NUMBER OF POSITIONS	
FLUSH	DHS4S	4	
	DHS6S	6	
	DHS8S	8	
	DHS10S	10	

IK series high rel surface mount DIP switches

Contact rating : Carry - 100 mA max. at 48 VDC; Switching - 100 mA max. at 24 VDC. Op. temp. range -40° C to +100° C. UL94V-O case, color - white. UL94V-O actuator, color - black. Contacts gold over copper alloy. Molded-in tin/nickel plated terms.. Term. spacing .100" x .400". Process compatible with standard tape seal. SPST Off-On action. Auto-insertable. IR and vapor phase reflow solderable. Self-cleaning wiping contacts. Low profile .112" h.

ACT- UATOR STYLE	MOD. NO. (TAPE & REEL)	MOD. NO. (IC TUBES)	NO. OF POS.	
FLUSH	IKN0204000	IKN0203000	2	
	IKN0404000	IKN0403000	4	
	IKN0604000	IKN0603000	6	
	IKN0804000	IKN0803000	8	

IK series high rel thru-hole mount DIP switches

Contact rating : Carry - 100 mA max. at 48 VDC; Switching - 100 mA max. at 24 VDC. Op. temp. range -40° C to +100° C. UL94V-O case, color - white. UL94V-O actuator, color - black. Contacts gold over copper alloy. Molded-in tin/nickel plated terms.. Term. spacing .100" x .300". Process compatible with standard tape seal. SPST Off-On action. Auto-insertable. IR and vapor phase reflow solderable. Self-cleaning wiping contacts. Low profile .112" h.

ACT- UATOR STYLE	MOD. NO. (IC TUBES)	NO. OF POS.	
FLUSH	IKN0200000	2	
	IKN0400000	4	
	IKN0600000	6	
	IKN0800000	8	

MJTP series miniature tact switches

SPST momentary action. Excellent tactile feed-back. Contact rating 50 milliamps at 12 VDC.. Operating temp. range -20° C to +70° C. Thermoplastic actuator and case. Phosphor bronze or stainless steel with silver clad shorting contact. Silver plated brass terms. PET film, tin plated brass or stainless steel cover/bracket. Molded-in terminals. L.E.D. rating for model MJTP1194: 2.1 V (3.0 V max.) forward voltage. Cont. forward current at 25° C is 20 mA max. Dims. shown in inches. Consult factory for numerous additional models.

MODEL NO. NUMBER	BODY SIZE L X W X H	ACT. HT./CLR.	GRD TAB	
MJTP1105T	291x.258x.285	142	Y	
MJTP1109	299X.283X.102	.056	Y	
MJTP1109A	.315X.244X.102	.213	Y	
MJTP1109B	.315X.244X.102	.371	Y	
MJTP1119	283X.283X.102	056	N	
MJTP1119A	283X.283X.102	213	N	
MJTP1119B	283X.283X.102	371	N	
MJTP1194	252X.252X.228	(no LED)	N	
MJTP1194R	252X.252X.228	(red LED)	N	
MJTP1194Y	252X.252X.228	(ylw LED)	N	
MJTP1194G	252X.252X.228	(grn LED)	N	
MJTP1230	238X.238X.142	028	N	
MJTP1230A	238X.238X.142	055	N	
MJTP1230B	238X.238X.142	232	N	
MJTP1230C	238X.238X.142	173	N	
MJTP1230D	238X.238X.142	370	N	
MJTP1230E	238X.238X.142	145	N	
MJTP1230F	238X.238X.142	193	N	
MJTP1230G	238X.238X.142	133	N	
MJTP1232	238X.238X.142	028	Y	
MJTP1232A	238X.238X.142	055	Y	
MJTP1232B	238X.238X.142	232	Y	
MJTP1232C	238X.238X.142	173	Y	
MJTP1232D	238X.238X.142	370	Y	
MJTP1232E	238X.238X.142	145	Y	
MJTP1232F	238X.238X.142	193	Y	
MJTP1232G	238X.238X.142	133	Y	

 Machined aluminum - Round with line indicator <table><tr><th>MODEL NUMBER</th><th>KNOB DIA.</th><th>HT.</th></tr><tr><td>420011A1/8</td><td>.500</td><td>.630</td></tr><tr><td>420011A1/4</td><td>.500</td><td>.630</td></tr><tr><td>420013A1/4</td><td>.748</td><td>.630</td></tr><tr><td>420015A1/4</td><td>.941</td><td>.630</td></tr></table> NOTE: Above units are natural color. For black finish, substitute B for A	MODEL NUMBER	KNOB DIA.	HT.	420011A1/8	.500	.630	420011A1/4	.500	.630	420013A1/4	.748	.630	420015A1/4	.941	.630	 Machined aluminum - Round with line indicator <table><tr><th>MODEL NUMBER</th><th>KNOB DIA.</th><th>HT.</th></tr><tr><td>420031A1/8</td><td>.500</td><td>.634</td></tr><tr><td>420031A1/4</td><td>.500</td><td>.634</td></tr><tr><td>420033A1/4</td><td>.748</td><td>.634</td></tr><tr><td>420035A1/4</td><td>.940</td><td>.634</td></tr><tr><td>420037A1/4</td><td>1.252</td><td>.748</td></tr></table> NOTE: Above units are natural color. For black finish, substitute B for A	MODEL NUMBER	KNOB DIA.	HT.	420031A1/8	.500	.634	420031A1/4	.500	.634	420033A1/4	.748	.634	420035A1/4	.940	.634	420037A1/4	1.252	.748	 Machined aluminum - Round with line indicator <table><tr><th>MODEL NUMBER</th><th>KNOB DIA.</th><th>HT.</th></tr><tr><td>420041A1/8</td><td>.500</td><td>.638</td></tr><tr><td>420041A1/4</td><td>.500</td><td>.638</td></tr><tr><td>420043A1/4</td><td>.748</td><td>.638</td></tr><tr><td>420045A1/4</td><td>.929</td><td>.638</td></tr></table> NOTE: Above units are natural color. For black finish, substitute B for A	MODEL NUMBER	KNOB DIA.	HT.	420041A1/8	.500	.638	420041A1/4	.500	.638	420043A1/4	.748	.638	420045A1/4	.929	.638	 Machined aluminum - Round with arrowhead indicator <table><tr><th>MODEL NUMBER</th><th>KNOB DIA.</th><th>HT.</th></tr><tr><td>420051A1/8</td><td>.500</td><td>.638</td></tr><tr><td>420051A1/4</td><td>.500</td><td>.638</td></tr><tr><td>420053A1/4</td><td>.748</td><td>.638</td></tr><tr><td>420055A1/4</td><td>.929</td><td>.638</td></tr></table> NOTE: Above units are natural color. For black finish, substitute B for A	MODEL NUMBER	KNOB DIA.	HT.	420051A1/8	.500	.638	420051A1/4	.500	.638	420053A1/4	.748	.638	420055A1/4	.929	.638																												
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 Machined aluminum - Round with line indicator <table><tr><th>MODEL NUMBER</th><th>KNOB DIA.</th><th>HT.</th></tr><tr><td>420061A1/8</td><td>.500</td><td>.638</td></tr><tr><td>420061A1/4</td><td>.500</td><td>.638</td></tr><tr><td>420063A1/4</td><td>.748</td><td>.638</td></tr><tr><td>420065A1/4</td><td>.940</td><td>.638</td></tr><tr><td>420067A1/4</td><td>1.248</td><td>.638</td></tr></table> NOTE: Above units are natural color. For black finish, substitute B for A	MODEL NUMBER	KNOB DIA.	HT.	420061A1/8	.500	.638	420061A1/4	.500	.638	420063A1/4	.748	.638	420065A1/4	.940	.638	420067A1/4	1.248	.638	 Machined aluminum - Round with dot indicator <table><tr><th>MODEL NUMBER</th><th>KNOB DIA.</th><th>HT.</th></tr><tr><td>420071A1/8</td><td>.370</td><td>.300</td></tr><tr><td>420072A1/8</td><td>.370</td><td>.449</td></tr><tr><td>420073A1/8</td><td>.492</td><td>.598</td></tr><tr><td>420073A1/4</td><td>.492</td><td>.598</td></tr><tr><td>420074A1/4</td><td>.748</td><td>.598</td></tr></table> NOTE: Above units are natural color. For black finish, substitute B for A	MODEL NUMBER	KNOB DIA.	HT.	420071A1/8	.370	.300	420072A1/8	.370	.449	420073A1/8	.492	.598	420073A1/4	.492	.598	420074A1/4	.748	.598	 Machined aluminum - Round with line indicator <table><tr><th>MODEL NUMBER</th><th>KNOB DIA.</th><th>HT.</th></tr><tr><td>420081A1/8</td><td>.500</td><td>.630</td></tr><tr><td>420081A1/4</td><td>.500</td><td>.630</td></tr><tr><td>420083A1/4</td><td>.748</td><td>.630</td></tr><tr><td>420085A1/4</td><td>.940</td><td>.630</td></tr><tr><td>420087A1/4</td><td>1.248</td><td>.748</td></tr></table> NOTE: Above units are natural color. For black finish, substitute B for A	MODEL NUMBER	KNOB DIA.	HT.	420081A1/8	.500	.630	420081A1/4	.500	.630	420083A1/4	.748	.630	420085A1/4	.940	.630	420087A1/4	1.248	.748	 Machined aluminum - Round with line indicator <table><tr><th>MODEL NUMBER</th><th>KNOB DIA.</th><th>HT.</th></tr><tr><td>420091B1/8</td><td>.732</td><td>.472</td></tr><tr><td>420091B1/4</td><td>.732</td><td>.472</td></tr><tr><td>420092B1/4</td><td>.898</td><td>.512</td></tr><tr><td>420093B1/4</td><td>1.280</td><td>.551</td></tr><tr><td>420094B1/4</td><td>1.512</td><td>.630</td></tr></table> NOTE: Above units are available with black finish only.	MODEL NUMBER	KNOB DIA.	HT.	420091B1/8	.732	.472	420091B1/4	.732	.472	420092B1/4	.898	.512	420093B1/4	1.280	.551	420094B1/4	1.512	.630																			
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