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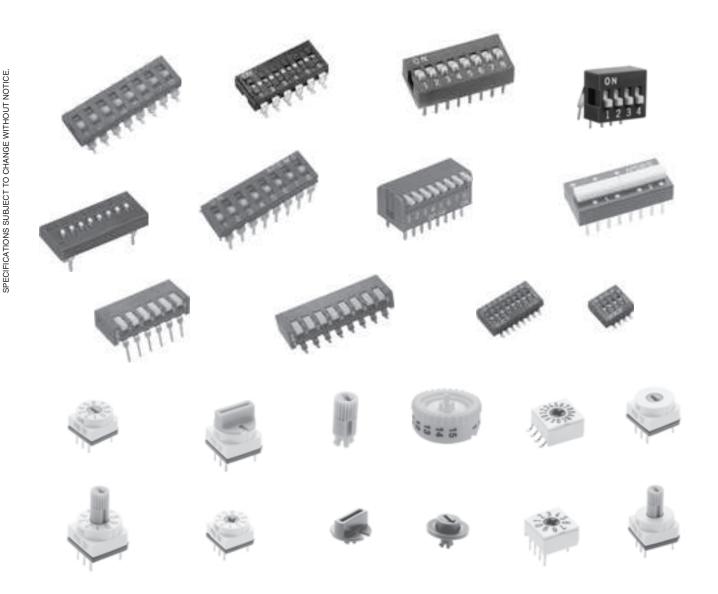






DIP & ROTARY DIP SWITCH

DIP & ROTARY DIP SWITCH SELECTION GUIDE: This catalog contains an extensive variety of DIP & rotary DIP switches with many options. To facilitate easy selection of the desired switch for your application, this guide lists the various Series with a brief description.



SERIES	DESCRIPTION	PAGE(S)
IK	DIP switches, low profile, surface and through-hole mounting	G2-G3
DS, DA & DP	DIP switches, vertical, right angle and piano styles, through-hole mounting	G4-G6
DI & DM	DIP switches, low profile, surface and through-hole mounting	G7-G8
PI & PM	DIP switches, sealed piano style, low profile, surface and through-hole mounting	G9-G10
DHS	DIP switches, ultra-compact 1/2 pitch, surface mounting	G11
MPG	DIP switches, transfer style in 1, 2, 3 & 4 pole models, through-hole mounting	G12-G13
TDS	DIP switches, 3 state (+, 0, -), through-hole mounting	G14
P36 & P36S	Rotary DIP switches, low profile, surface and through-hole mounting	G15-G16
PT65	Rotary DIP switches, through-hole mounting with extensive options	G17-G20
P60A & P60AS	Rotary DIP switches, low profile, surface and through-hole mounting, 4+1 terminal layout	G21-G22
PT65	Rotary DIP switches, pulse generator, through-hole mounting	G23-G24

IK SERIES HIGH REL SPST SURFACE MOUNT DIP SWITCHES

FEATURES

Ultra-compact size with very low-profile. Self-cleaning wiping contacts.

Tin plated terminals.

IR & vapor phase reflow solderable. Washable.

Heavy gold plate.

GENERAL SPECIFICATIONS

ELECTRICALS

Electrical life 2000 cycles minimum Contact rating, non-switching 100 mA at 48 VDC Contact rating, switching 100 mA at 24 VDC Initial contact resistance 30 m Ω maximum

after 2000 cycles: 100 m Ω max.

Insulation resistance 1000 M Ω min. at 500 VDC Dielectric strength 500 VAC minimum

MECHANICALS, THERMALS

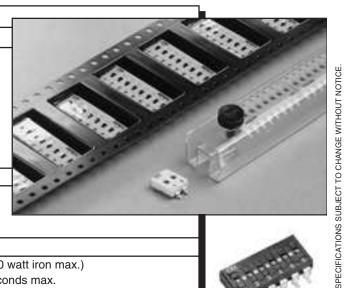
.026" (0.67mm) Travel -40°C to +100°C Operating temperature range Storage temperature range -40°C to +125°C



Hand soldering 330°C max. for 3 seconds max.(30 watt iron max.) Reflow soldering Set oven at 215°C max. for 90 seconds max.

Cleaning 1-1-1 Trichloroethane, Freon TE, Isopropyl alcohol or aqueous

(with standard tape seal) cleaner for 2 minutes max. at 20°C





MATERIALS

Case UL94-VO, thermoplastic, white Actuators UL94-VO, thermoplastic, black Stationary contact Gold over nickel over bronze Moving contact Gold over beryllium copper Tin plated over nickel barrier **Terminals** Tape seal Polyimide

ANTISTATIC PACKAGING

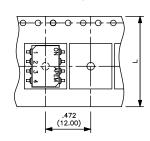
Standard packaging:

Reels of 1,000 units - Tape meeting IEC Standard - Publication 286-3 (EIA481A). Start leader: 15.7" (400mm) min.

End leader: 6.3" (160mm) - see illustration.

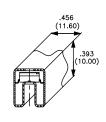
IC tubes - see illustration

TAPE & REEL



Pos.	Tape dim. 'L'
2	.629 (16mm)
4	.944 (24mm)
6	.944 (24mm)
8	1.259 (32mm)

IC TUBES

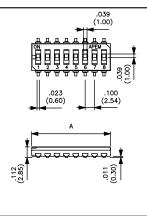


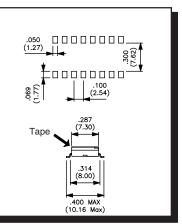
Pos.	Qty per tube
2	88
4	48
6	33
8	25

Tape & reel Model No.	IC tubes Model No.	No of pos.	Dimension 'A'
IKN0204000	IKN0203000	2	.236 (6mm)
IKN0404000	IKN0403000	4	.437 (11.1mm)
IKN0604000	IKN0603000	6	.637 (16.2mm)
IKN0804000	IKN0803000	8	.838 (21.3mm)

All switches are supplied in 'ON' position.

Dimensions shown in millimeters and inches (in parenthesis).





IK SERIES HIGH REL SPST THROUGH-HOLE DIP SWITCHES

FEATURES

Ultra-compact size with low-profile. Self-cleaning wiping contacts. Tin plated terminals. Wave solderable. Washable. Heavy gold plate.

GENERAL SPECIFICATIONS

ELECTRICALS

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

Electrical life 2000 cycles minimum Contact rating, non-switching 100 mA at 48 VDC Contact rating, switching 100 mA at 24 VDC Initial contact resistance 30 m Ω maximum

after 2000 cycles: 100 m Ω max.

Insulation resistance 1000 M Ω min. at 500 VDC Dielectric strength 500 VAC minimum

MECHANICALS, THERMALS

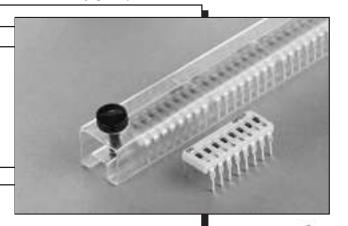
.026" (0.67mm) Travel Operating temperature range -40°C to +100°C -40°C to +125°C Storage temperature range



330°C max. for 3 seconds max.(30 watt iron max.) Hand soldering Reflow soldering Set oven at 215°C max. for 90 seconds max.

1-1-1 Trichloroethane, Freon TE, Isopropyl alcohol or aqueous Cleaning

(with standard tape seal) cleaner for 2 minutes max. at 20°C



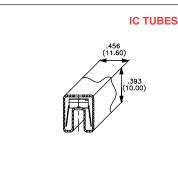
MATERIALS

Case UL94-VO, thermoplastic, white UL94-VO, thermoplastic, black Actuators Stationary contact Gold over nickel over bronze Moving contact Gold over beryllium copper **Terminals** Tin plated over nickel barrier

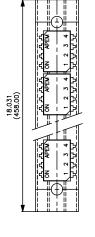
Polyimide Tape seal

ANTISTATIC PACKAGING

Standard packaging: IC tubes - see illustration

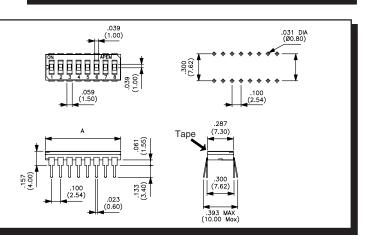


Pos.	Qty per tube
2	88
4	48
6	33
8	25



Model Number	No of pos.	Dimension 'A' Model No.
IKN0200000	2	.236 (6mm)
IKN0400000	4	.437 (11.1mm)
IKN0600000	6	.637 (16.2mm)
IKN0800000	8	.838 (21.3mm)

All switches are supplied in 'ON' position. General dimensional tolerances are \pm .012 (0.3mm) Dimensions shown in millimeters and inches (in parenthesis).



DS, DA & DP SERIES SPST STANDARD DIP SWITCHES

FEATURES

High reliability.
Self-cleaning contacts.
Multi- positions.
Process compatible with tape seal.
Dual in-line .100" x .300" term. spacing.

GENERAL SPECIFICATIONS

ELECTRICALS

Electrical life 2000 cycles min. per switch @ 24 VDC, 25 mA

Contact rating, non-switching 100 mA at 50 VDC Contact rating, switching 25 mA at 24 VDC

Contact resistance at current 100 mA $\,$ 50 m Ω max. initial - 100 m Ω max. after life test

Insulation resistance at 500 VDC 100 MΩ minimum Dielectric strength 500 VAC for 1 minute

Capacitance 5 pf. max. between adjacent terminals

MECHANICALS, THERMALS

Mechanical life 2000 cycles min. per switch

Operating force 1000 grams max. (DP Series only - 400 grams max.)

Vibration 10-55 Hz.per MIL-STD-202F METHOD 201A

Shock 50 G (peak value) for 11 msec. per MIL-STD-202F, METHOD 213B

Operating temperature range -40°C to 85°C

SOLDERING & CLEANING RECOMMENDATIONS*

Hand soldering 320°C max. for 2 seconds max.(30 watt iron max.)

Wave soldering 260°C max. for 5 seconds max. Cleaning (with tape seal) Spray wash from top side only.

* Note: keep switches in "OFF" position during soldering and cleaning for best results

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MATERIALS

Base UL94V-O, glass fiber filled PBT, black
Cover UL94V-O, glass fiber filled PBT, red
Actuators UL94V-O, glass fiber filled PBT, white
Contacts & Terms. Gold over nickel plated phosphor bronze

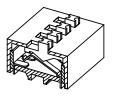
Sealing Epoxy
Tape seal Polyester film

PACKAGING

DIP switches are shipped in standard IC tubes with all actuators in the "OFF" position.

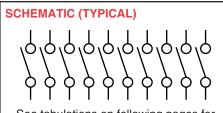
SWITCH CROSS SECTIONS

Normally open contact system

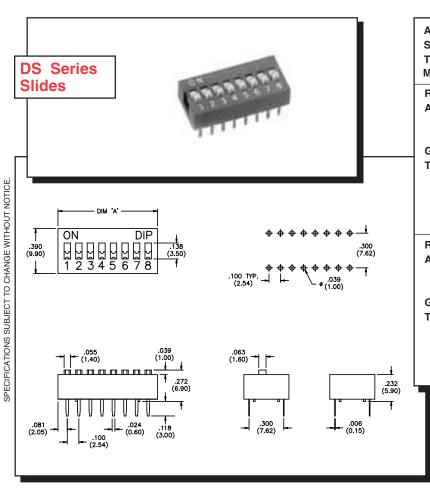


DS & DA

DP

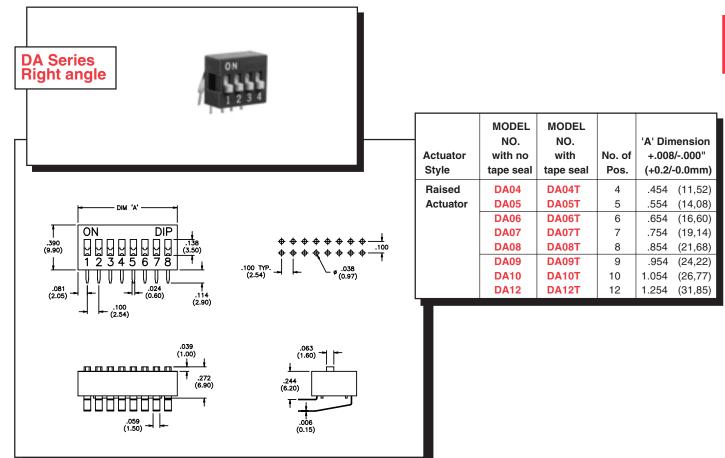


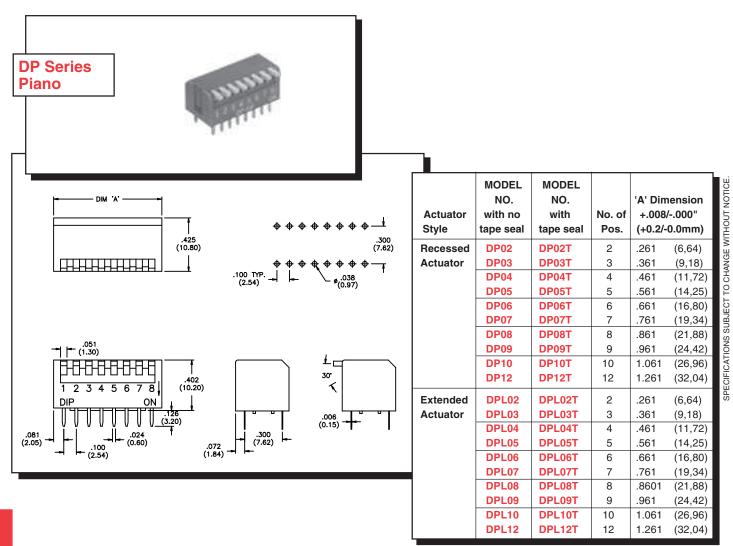
See tabulations on following pages for number of positions available (10 shown)



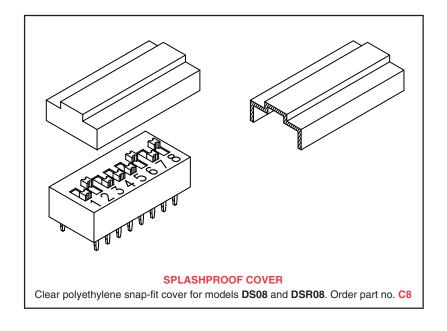
Actuator	MODEL	MODEL			_
Style &	NO.	NO.		'A' Dimension	
Terminal	with no	with	No. of		/000"
Mat'l.	tape seal	tape seal	Pos.	(+0.2/-	0.0mm)
Raised	DS02	DS02T	2	.254	(6,45)
Actuator	DS03	DS03T	3	.354	(8,98)
	DS04	DS04T	4	.454	(11,52)
	DS05	DS05T	5	.554	(14,08)
Gold	DS06	DS06T	6	.654	(16,60)
Terms.	DS07	DS07T	7	.754	(19,14)
	DS08	DS08T	8	.854	(21,68)
	DS09	DS09T	9	.954	(24,22)
	DS10	DS10T	10	1.054	(26,77)
	DS12	DS12T	12	1.254	(31,85)
Recessed	n/a	DSR02T	2	.254	(6,45)
Actuator	n/a	DSR03T	3	.354	(8,98)
	n/a	DSR04T	4	.454	(11,52)
	n/a	DSR05T	5	.554	(14,08)
Gold	n/a	DSR06T	6	.654	(16,60)
Terms.	n/a	DSR07T	7	.754	(19,14)
	n/a	DSR08T	8	.854	(21,68)
	n/a	DSR09T	9	.954	(24,22)
	n/a	DSR10T	10	1.054	(26,77)
	n/a	DSR12T	12	1.254	(31,85)

n/a = not available.





Note: Push up for ON position is also available on special order - consult factory.



DI & DM SERIES SPST STANDARD DIP SWITCHES

FEATURES

High reliability. Self-cleaning contacts. Multi-positions. Process compatible with tape seal. Dual in-line .100" x .300" term. spacing.

GENERAL SPECIFICATIONS

ELECTRICALS

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

Electrical life 2000 cycles min. per switch @ 24 VDC, 25 mA

Contact rating, non-switching 100 mA at 50 VDC Contact rating, switching 25 mA at 24 VDC

Contact resistance at current 100 mA 50 m Ω max. initial - 100 m Ω max. after life test

Insulation resistance at 100 VDC 100 $M\Omega$ minimum Dielectric strength 500 VAC for 1 minute

Capacitance 5 pf. max. between adjacent terminals

MECHANICALS, THERMALS

Mechanical life 2000 cycles min. per switch

Operating force 1000 grams max.

Vibration 10-55 Hz.per MIL-STD-202F METHOD 201A

Shock 50 G (peak value) for 11 msec. per MIL-STD-202F, METHOD 213B

-40°C to 85°C Operating temperature range

SOLDERING & CLEANING RECOMMENDATIONS*

Hand soldering 320°C max. for 2 seconds max.(30 watt iron max.)

260°C max. for 5 seconds max. Wave soldering Spray wash from top side only. Cleaning (with tape seal)

* Note: keep switches in "OFF" position during soldering and cleaning for best results

MATERIALS

Base & Cover DI: UL94V-O, glass fiber filled PBT, black

DM: UL94V-O, glass fiber filled PPS, black

Actuators UL94V-O, Nylon, white

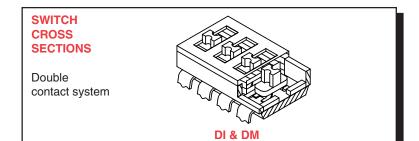
Gold over nickel plated copper alloy Contacts

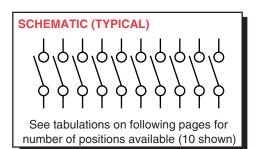
DI: Tin/lead plated brass. DM: Gold over nickel plated copper alloy. **Terminals**

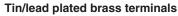
Term. Sealing Molded-in Tape seal Kapton

PACKAGING

DIP switches are shipped in standard IC tubes with all actuators in the "OFF" position. Tape & reel packaging per EIA available for DMR models (see next page).



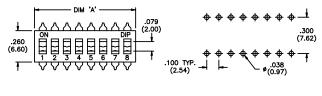


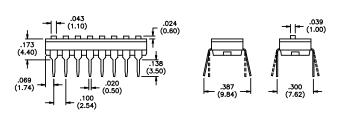


Gold plated terminals available on request

						1		
	\Box	Squared terminals Spread terminals						
	Actuator	MODEL NO. with no tape seal	MODEL NO. with tape seal	MODEL NO. with no tape seal	MODEL NO. with tape seal	No. of Pos.	+.008	Dim. 8/000" -0.0mm)
\dashv		DI01H	n/a	DI01S	n/a	1	.137	(3,48)
	_	DI02H	n/a	DI02S	n/a	2	.237	(6,02)
	Raised	DI04H	n/a	DI04S	n/a	4	.437	(11.10)
	Rai	DI06H	n/a	DI06S	n/a	6	.637	(16,18)
	_	H80ID	n/a	DI08S	n/a	8	.837	(21,26)
		DI10H	n/a	DI10S	n/a	10	1.037	(26,34)
2)		DIR01H	n/a	DIR01S	DIR01ST	1	.137	(3,48)
	ਰੂ	DIR02H	DIR02HT	DIR02S	DIR02ST	2	.237	(6,02)
	ssed	DIR04H	DIR04HT	DIR04S	DIR04ST	4	.437	(11,10)
	Š	DIR06H	DIR06HT	DIR06S	DIR06ST	6	.637	(16, 18)
	۳ ا	DIR08H	DIR08HT	DIR08S	DIR08ST	8	.837	(21,26)
		DIR10H	DIR10HT	DIR10S	DIR10ST	10	1.037	(26,34)

DI Series Machine Insertable *





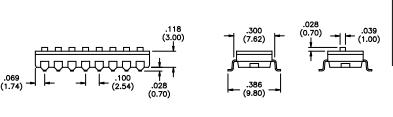
★ Auto-insertable using equipment from Amistar, Dynapert, Panasert, Northeastern Tool, Universal and others.

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

n/a = not available.

DM Series Surface Mount *	
	And the second s

DIM 'A' ON ON ON ON ON ON ON ON ON O	.291 (7.40) (10.40) .043 (1.10) (2.54)
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Actuator Style	MODEL NO. with no tape seal	MODEL NO. with tape seal	No. of Pos.	'A' Dimension +.008/000" (+0.2/-0.0mm)	
Raised	DM01	n/a	1	.137	(3,48)
Actuator	DM02	n/a	2	.237	(6,02)
	DM03	n/a	3	.337	(8,56)
	DM04	n/a	4	.437	(11,10)
	DM05	n/a	5	.537	(13,64)
	DM06	n/a	6	.637	(16,18)
	DM07	n/a	7	.737	(18,72)
	DM08	n/a	8	.837	(21,26)
	DM09	n/a	9	.937	(23,80)
	DM10	n/a	10	1.037	(26,34)
	DM12	n/a	12	1.237	(31.42)
Recessed	DMR01	n/a	1	.137	(3,48)
Actuator	DMR02	DMR02T	2	.237	(6,02)
	DMR03	DMR03T	3	.337	(8,56)
	DMR04	DMR04T	4	.437	(11,10)
	DMR05	DMR05T	5	.537	(13,64)
	DMR06	DMR06T	6	.637	(16,18)
	DMR07	DMR07T	7	.737	(18,72)
	DMR08	DMR08T	8	.837	(21,26)
	DMR09	DMR09T	9	.937	(23,80)
	DMR10	DMR10T	10	1.037	(26,34)
	DMR12	DMR12T	12	1.237	(31.42)

For tape & reel packaging on DMR models only, add 'TR' to model number - example: DMR08TTR. Note- tape & reel packaging is available only with tape seal models. 900 switches per reel.

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PI & PM SERIES SPST SEALED PIANO DIP SWITCHES

FEATURES

Built-in seal for process compatibility. High reliability. Splayed thru-hole or SMT terminals. 2, 4, 6, 8 & 10 positions.

Piano style actuators. Dual in-line .100" x .300" term. spacing.

GENERAL SPECIFICATIONS

ELECTRICALS

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

Electrical life 200 cycles min. per switch @ 24 VDC, 25 mA

Contact rating, non-switching 100 mA at 50 VDC Contact rating, switching 25 mA at 24 VDC

Contact resistance at current 100 mA $\,$ 50 m Ω max. initial - 100 m Ω max. after life test

Insulation resistance at 500 VDC 100 $M\Omega$ minimum Dielectric strength 300 VAC for 1 minute

Capacitance 5 pf. max. between adjacent terminals

MECHANICALS, THERMALS

Mechanical life 500 cycles min. per switch

Operating force 800 grams max.

Vibration 10-55 Hz.per MIL-STD-202F METHOD 201A

50 G (peak value) for 11 msec. per MIL-STD-202F, METHOD 213B Shock

Operating temperature range -40°C to 85°C

SOLDERING & CLEANING RECOMMENDATIONS*

320°C max. for 2 seconds max.(30 watt iron max.) Hand soldering

260°C max. for 5 seconds max. Note PM Series is vapor phase Wave soldering

or IR reflow solderable.

Force rinse, high agitation or Sealed construction permits washing with freons, alcohol, water triple bath cleaning method and steam. When vapor methods are used, do not subject switch

to solvents above 51°C.

* Note: keep switches in "ON" position during soldering and cleaning for best results

MATERIALS

UL94V-O, high temperature thermoplastic, color black Base & Cover UL94V-O, high temperature thermoplastic, color `.01*white Actuators

Gold over nickel plated copper alloy or brass Contacts **Terminals** Tin/lead (90/10 solder) plated copper alloy or brass

Term. Sealing Molded-in

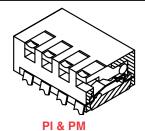
Tape seal High temperature modulus Teflon internal seal PI and PM models feature a uniquely designed internal seal!

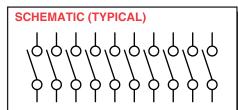
PACKAGING

DIP switches are shipped in standard IC tubes with all actuators in the "ON" position. Tape & reel packaging per EIA available for PM models - consult factory.

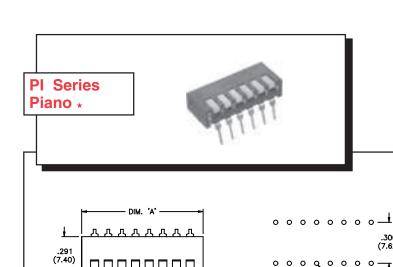
SWITCH CROSS SECTION

Double contact system





See tabulations on following page for number of positions available (10 shown)



<u>L</u>	.031 (0.80)	
.190	† .319 (8.10)	

Actuator Style	MODEL N0. (internally sealed)	No. of Pos.	'A' Dimension ±012 (0,30mm)	
Flush	PI02090	2	.290	(7,37)
	PI04090	4	.490	(12,45)
	PI06090	6	.690	(17,53)
	PI08090	8	.890	(22,61)
	PI10090	10	1.090	(27,69)
Extended	PI02190	2	.290	(7,37)
	PI04190	4	.490	(12,45)
	PI06190	6	.690	(17,53)
	PI08190	8	.890	(22,61)
	PI10190	10	1.090	(27,69)

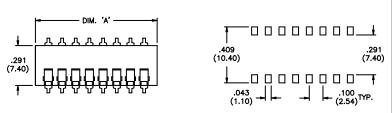
* Auto-insertable using equipment from Amistar, Dynapert, Panasert, Northeastern Tool, Universal and others

PI and PM models listed feature a uniquely designed internal seal!

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

Non-sealed versions are also available. To order the non-sealed model, replace the '0' at the end of the model number with '1'.





.031 (0.80) (0.80) (0.80) (0.80) (0.80) (0.80) (0.70) (0.70)
--

Actuator Style	MODEL N0. (internally sealed)	No. of Pos.	'A' Dimension ±012 (0,30mm)	
Flush	PM02090	2	.290	(7,37)
	PM04090	4	.490	(12,45)
	PM06090	6	.690	(17,53)
	PM08090	8	.890	(22,61)
	PM10090	10	1.090	(27,69)
Extended	PM02190	2	.290	(7,37)
	PM04190	4	.490	(12,45)
	PM06190	6	.690	(17,53)
	PM08190	8	.890	(22,61)
	PM10190	10	1.090	(27,69)

DHS SERIES 1/2 PITCH SPST SURFACE MOUNT DIP SWITCHES

FEATURES

Ultra-compact low-profile size.
.050" (1.27mm) terminal spacing.
Self-cleaning twin point contacts.
Auto-insertable and reflow solderable.
Process compatible with std'd. tape seal.

GENERAL SPECIFICATIONS

ELECTRICALS

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

Electrical life 1000 cycles minimum Contact rating, non-switching 100 mA at 50 VDC Contact rating, switching 100 mA at 6 VDC Contact resistance 100 m Ω maximum Insulation resistance 100 M Ω minimum

Dielectric strength 250 VDC for 1 min. between adjacent or opposite terminals

Capacitance 5 pf. max. between adjacent or opposite terminals

MECHANICALS, THERMALS

Operating force 400 grams maximum

Vibration 10-55 Hz. per MIL-STD-202F, METHOD 201A

Shock 50 g (peak value) for 11 msec. per MIL-STD-202F, METHOD 213B

Operating temperature range -40°C to +80°C

SOLDERING & CLEANING RECOMMENDATIONS

Hand soldering 330°C max. for 3 seconds max.(30 watt iron max.)

Reflow soldering Set oven at 215°C max. for 90 seconds max.

Cleaning 1-1-1 Trichloroethane, Freon TE, Isopropyl alcohol or aqueous

(with standard tape seal in place) cleaner for 2 minutes max. at 20°C

MATERIALS

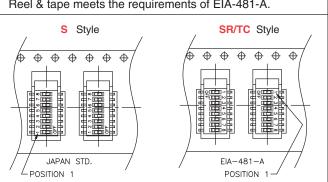
Base UL94V-O, glass fiber filled PPS, black Cover UL94V-O, glass fiber filled PPS, black Actuators UL94V-O, Polyamide, yellow

Contacts Gold plated beryllium copper Terminals Gold plated copper alloy

Terminal seal Epoxy
Tape seal Polyimide

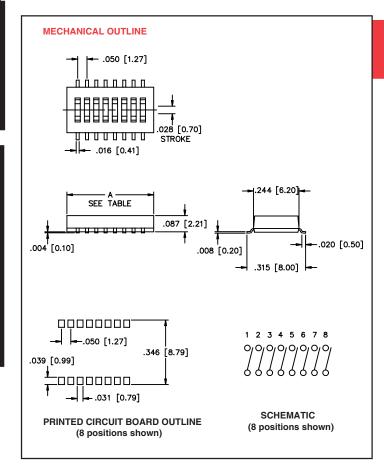
PACKAGING

Supplied in tape & reel packaging.
Reel & tape meets the requirements of EIA-481-A.



MODEL	NO. 0F	A DIMENSION		
NUMBER	POS.	IN(± .012)	MM(± 0.30)	
DHS4S	4	.268	6.81	
DHS6S	6	.368	9.35	
DHS8S	8	.468	11.89	
DHS10S	10	.568	14.43	

Note: S at end of model no. indicates S style packaging. Substitute SR/TC for S for SR/TC packaging.



FEATURES

Gold plated contacts.
Self-cleaning contacts.
UL94V-O materials used throughout.
Process compatible with tape seal.
Dual in-line .100" x .300" term. spacing.

GENERAL SPECIFICATIONS

ELECTRICALS

Electrical life 2000 cycles minimum

Contact rating, non-switching 100 mA at 50 VDC

Contact rating, switching 25 mA at 24 VDC

Contact resistance 50 m Ω max. initial - 100 m Ω max. after life test

Insulation resistance at 100 VDC $1000 \text{ M}\Omega$ minimum Dielectric strength 500 VDC for 1 minute

Capacitance 5 pf. max. between adjacent terminals

MECHANICALS, THERMALS

Mechanical life 3000 cycles minimum

Operating force MDG; 800 grmas max. per pole MPG; 400 grams max. per pole.

Vibration Per MIL-STD-202, METHOD 204B Humidity 95% relative humidity, 40°C for 96 hours

Temperature range Operating: -25°C to 70°C Storage: -40°C to 85°C

SOLDERING & CLEANING RECOMMENDATIONS

Hand soldering 320°C max. for 2 seconds max.(30 watt iron max.)

Wave soldering 230°C max. for 3 seconds max.

Cleaning (with tape seal) Spray wash from top side only

MATERIALS

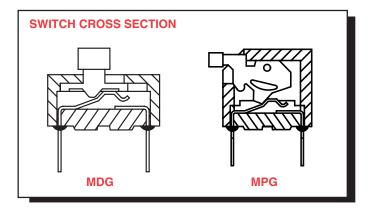
Cover UL94V-O, Polyamide Actuators UL94V-O, Polyamide

Contacts & Terminals Gold over nickel plate over brass

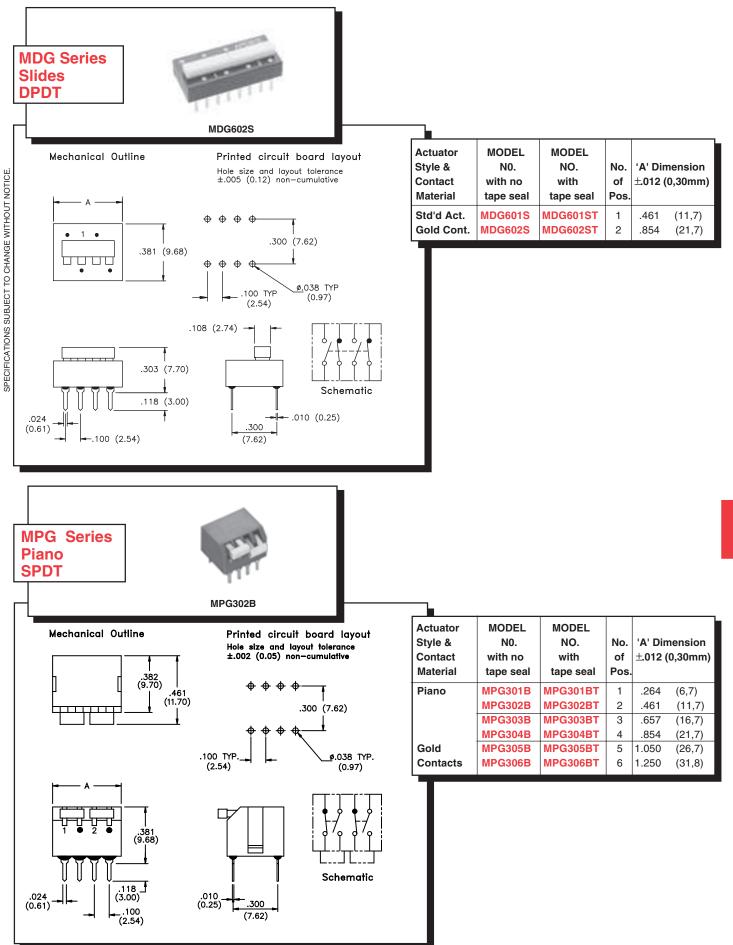
Sealing Epoxy
Tape seal Polyester film

PACKAGING

DIP switches are shipped in standard IC tubes with all actuators in the "OFF" position







TDS SERIES SP 3 POSITION 3 STATE (+,0,-) DIP SWITCHES

FEATURES

3 code functions per position (n). Self-cleaning twin point contacts. UL94V-O materials used throughout. Process compatible.

Crimped terminals for positive p.c. board retention during installation.

GENERAL SPECIFICATIONS

ELECTRICALS

Electrical life 2000 operations minimum per switch

Contact rating, non-switching 100 mA at 50 VDC Contact rating, switching 25 mA at 24 VDC

Contact resistance Initial:50 m Ω max. After 2000 operations: 100 m Ω max. Insulation resistance 100 M Ω minimum between adjacent terms.at 500 VDC

Dielectric strength 500 VDC for 1 minute

Capacitance 5 pf. maximum

MECHANICALS, THERMALS

Mechanical life 2000 operations minimum per switch

Operating force 1000 grams maximum

Vibration 10-55-10 Hz./1 min. (3 planes) per MIL-STD-202F, METHOD 201A Shock 50 G (peak value) for 11 msec. per MIL-STD-202F, METHOD 213B

Temperature range Operating and storage: -40°C to +85°C

SOLDERING RECOMMENDATIONS*

320°C max. for 2 seconds max.(30 watt iron max.) Hand soldering

Wave soldering 260°C max. for 5 seconds

*For best results, keep actuator in 'O' position during soldering.

MATERIALS

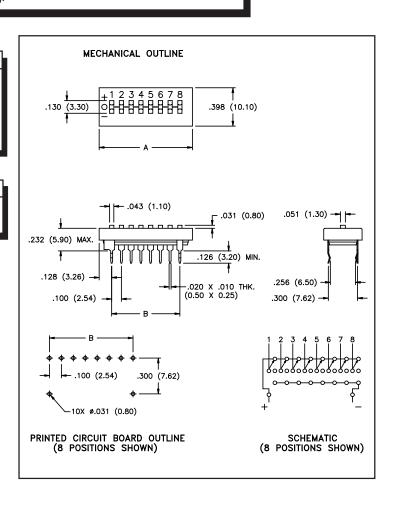
Base UL94V-O, glass fiber filled PBT, black UL94V-O, glass fiber filled PBT, black Cover Actuators UL94V-O, glass fiber filled Nylon, white Contacts Gold over nickel over brass

Terminals 90/10 Solder plate over brass

PACKAGING

Normally supplied in standard IC tubes with all actuators in the 'O' position

MODEL	NO. 0F	A DIM. (MAX)		A DIM. (MAX)		B DIMEN	ISION
NUMBER	POS. (n)	INCHES	ММ	INCHES	MM		
TDS04	4	.557	14.14	.300	7.62		
TDS08	8	.957	24.3	.700	17.78		
TDS09	9	1.057	26.84	.800	20.32		
TDS10	10	1.157	29.39	.900	22.86		



P36 & P36S SERIES ROTARY DIP SWITCHES

FEATURES

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE.

- 3 + 3 terminal layout.
- Completely sealed for process compatibility.
- Ultra-compact size with 10 or 16 positions.
- Precision designed detent action.
- Thru-hole (P36 Series) & SMT (P36S Series) models.
- High reliability & long life.
- Clockwise or counterclockwise settable.
- Solder coated terminals.

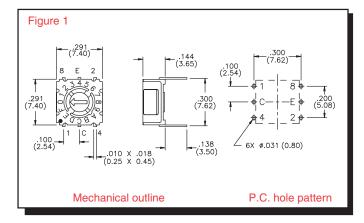
GENERAL SPECIFICATIONS	
ELECTRICALS	
Operating voltage Contact rating, static Contact rating, dynamic Test voltage Initial contact resistance Insulation resistance	24 VDC max. 400 mA max. 100 mA max. 250V 50Hz/1 min. < 100 milliohms > 100 megohms
MECHANICALS, THERMALS	
Torque Expected life Contact force Operating temperature range	0.98 inch-oz. min. (0.7 Ncm min.) 10,000 switching operations 15 grams min. -30°C to 90°C
SOLDERING RECOMMENDATIONS	
Hand soldering Wave soldering Reflow soldering (SMT) Solvent washing Aqueous cleaning	340°C max. for 2 seconds max. (40 watt iron max.) 260°C max. for 10 seconds max. 215°C max. for 40 seconds max. Freons or alcohol. (Do not use chlorinated solvents) Deionized water preferred

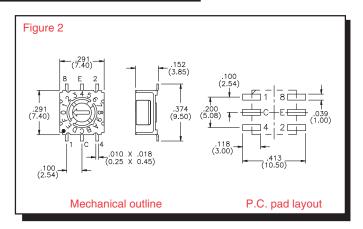




MATERIALS	
Base	UL94V-O,
	high temperature thermoplastic
Cover	Stainless steel
Actuator	UL94V-O,
	high temperature thermoplastic
Contacts	Gold over nickel plated
	stainless steel
Terminals	Solder coated brass
Terminal sealing	Molded-in
Actuator seal	'O'-ring

Thru-hole and SMT Printed Circuit Models	Model No. Thru-hole Mounting	Model No. Surface Mounting	
Code (see truth tables pg. G16)	Positions	(see fig. 1)	(see fig. 2)
Binary Coded Decimal	10	P36101	P36S101
Complement of BCD	10	P36102	P36S102
Binary Coded Hexadecimal	16	P36103	P36S103
Complement of BCH	16	P36106	P36S106





STANDARD OPTIONS BY SERIES: P36S Series Actuators Arrow shaped slot X X 1 3 X X Spindle X X 8 Slotted spindle BCD X X 01 X X 02 BCD complement Χ X 03 Hexadecimal Hexadecimal Comp. Χ **Terminals** None Straight Χ Crimped Χ L254 Rt. angle 2.54 (.100") Χ

ORDER GUIDE:

None

Make selections from the above table in sequence to specify a complete model number.

Note that 'None' indicates that no option suffix is required.

Example;



Χ

CODES

NOTE: For each dial position in tables, Common terminals (C) are connected to terminal number(s) indicated - i.e. - none or combinations of 1, 2, 4 or 8. Each model in this series has 2 Common terminals.

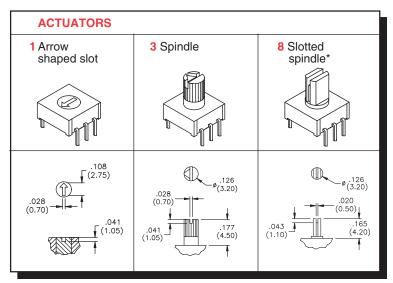
BINARY CODED DECIMAL (01) 10 Positions								
Dial No.	1	2	4	8				
0	0							
1	1 •							
2		•						
3	•	•						
4			•					
5	•		•					
6		•	•					
7	•	•	•					
8				•				
9	•			•				

	COMP. OF BINARY						
CODED	DEC	AMIC	L (0)2)			
10 Posit	ions	6					
Dial No.	1	2	4	8			
0	•	•	•	•			
1		•	•	•			
2	•		•	•			
3			•	•			
4	•	•		•			
5		•		•			
6	•			•			
7				•			
8	8 • • •						
9		•	•				

BINARY CODED							
HEXADECIMAL (03)							
16 Posit	ions	;					
Dial No.	1	2	4	8			
0							
1	•						
3		•					
3	•	•					
4			•				
5	•		•				
6		•	•				
7	•	•	•				
8							
9	•						
Α		•		•			
В	•	•					
С			•				
D	•		•				
Е		•	•				
F	•	•	•				

COMP. OF BINARY					
CODED	HEX	ADE	EC. (06)	
16 Positi	ons				
Dial No.	1	2	4	8	
0	•	•	•	•	
1		•	•	•	
2	•		•	•	
3			•	•	
4	•	•		•	
5		•		•	
6	•			•	
7				•	
8		•	•		
9		•	•		
Α	•		•		
В			•		
С	•				
D		•			
Е	•				
F					

P36 & P36S SERIES



SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE.

* Slotted spindle actuator is color coded to truth table code selection as follows: BCD - red, BCD complement - Orange, Hexadecimal - gray, Hexadecimal complement - white.

Tape and reel packaging available for SMT models - consult factory.

MECHANICAL OUTLINES					
Terminal option suffix*:	Mtg. hole pattern:				
(7.40) (7.40) (7.40) (7.40) (7.40) (7.40) (7.40) (7.40) (7.62) (7.62) (7.62) (7.62) (7.62) (7.62) (7.62) (7.62) (7.63) (7.64) (7.65) (7.65)	300 (7.62)				
300 (7.62)					
.106 (2.70) + .100 (2.54)	.100 (2.54)				
(291 (7.40) (7.40) (7.40) (7.40) (7.40) (7.40) (9.50) (9.50) (100 (2.45) (100 (2.45)	.118 (3.00) .200 (5.08) .100 (2.54) .413 (10.50)				

^{* &#}x27;None' indicates no option suffix is required.

4 8

PT65 SERIES ROTARY DIP SWITCHES

FEATURES

- 3 + 3 terminal layout.
- Completely sealed for process compatibility.
- 4, 6, 8, 10 or 16 positions w/extensive codings.
- Precision designed detent action.
- Compact size.
- High reliability & long life.
- Clockwise or counterclockwise settable.

Solder coated terminals.



GENERAL SPECIFICATIONS

ELECTRICALS

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE.

24 VDC max. Operating voltage 400 mA max. Contact rating, static 150 mA max. Contact rating, dynamic Switching capacity 1.5 VA max. Initial contact resistance < 80 milliohms Insulation resistance > 100 megohms

MATERIALS

Base UL94V-O, high temperature thermoplastic Cover UL94V-O, high temperature thermoplastic

Actuator POM

Contacts Gold over nickel plated bronze Gold over nickel plated bronze **Terminals**

Terminal sealing Molded-in 'O'-ring Actuator seal

MECHANICALS, THERMALS

Torque 7.0 inch-oz. min. (0.7 Ncm min.) Expected life 10,000 switching operations

Contact force 15 grams min. Operating temperature range -20°C to 70°C

SOLDERING RECOMMENDATIONS

340°C max. for 2 seconds max. (40 watt iron max.) Hand soldering

Wave soldering 260°C max. for 10 seconds max.

Solvent washing Freons or alcohol. (Do not use chlorinated solvents)

Aqueous cleaning Deionized water preferred

CODE 05	5						
GRAY C	GRAY CODE						
16 Positi	ons	;					
Dial No.	1	2					
0							
1	•						

2	•	•		
3		•		
4		•	•	
5	•	•	•	
6	•		•	
7			•	
8			•	•
9	•		•	•
Α	•	•	•	•
A B		•	•	•

D

E

CODES

NOTE: For each dial position in tables, Common terminal(s) (C) are connected to terminal number(s) indicated - i.e. none or combinations of 1, 2, 3, 4 or 8. Each model in this series has 2 Common terminals except codes 11 and 24 which have one.

CODE 11			
ON/0FF			
4 Positi	ons		
Dial No.	1		
0			
1	•		
0			
1	•		

CODE 12	2	
BCD		
4 Positio	ns	
Dial No.	1	2
0		
1	•	
2		•
3	•	•

CODE 21				
DECIMAL	_			
4 Positio	ns			
Dial No.	1	2	3	4
1				
2		•		
3			•	
0				•
				_

CODES 24 & 25 BCD				
6 Positio	ns			
Dial No.	1	2	4	
0				
1	•			
2		•		
3	•	•		
4			•	
5	•		•	

CODE 26					
OCTAL					
8 Positio	ns				
Dial No.	1	2	4		
0					
1	•				
2		•			
3	•	•			
4			•		
5	•		•		
6		•	•		
7	•	•	•		

CODE 27	7			
OCTAL	CON	IPLE	ME	NT
8 Positio	ons			
Dial No.	1	2	4	8
0	•	•	•	•
1		•	•	•
2	•			•
3			•	•
4	•	•		•
5		•		•
6	•			•
7				•

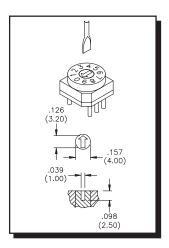
BINARY	COI	DED		
DECIMA	L (01)		
10 Posit	ions	i		
Dial No.	1	2	4	8
0				
1	•			
2		•		
3	•	•		
4			•	
5	•		•	
6		•	•	
7	•	•	•	
8				•
9	•			•

COMP.				
CODED	DEC	MIC	L ()2)
10 Positi	ions	•		
Dial No.	1	2	4	8
0	•	•	•	•
1		•	•	•
2	•		•	•
3			•	•
4	•	•		•
5		•		•
6	•			•
7				•
8	•	•	•	
9		•	•	

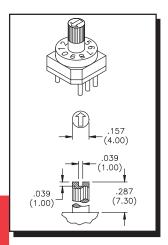
BINARY	BINARY CODED				
HEXAD	ECII	VIAL	(03)	
16 Posit	ions	;			
Dial No.	1	2	4	8	
0					
1	•				
2		•			
3	•	•			
4			•		
5	•		•		
6		•	•		
7	•	•	•		
8				•	
9	•			•	
Α		•		•	
В	•	•			
С			•		
D	•		•		
Е		•	•		
F	•	•	•	•	

	COMP. OF BINARY			
CODED HEXADEC. (06)				
16 Positi	ons			
Dial No.	1	2	4	8
0			•	•
1		•	•	•
2	•			•
			•	•
4	•	•		•
5		•		•
6	•			•
7				•
8	•	•	•	
9		•	•	
Α			•	
В			•	
С	•	•		
D		•		
Е	•			
F				

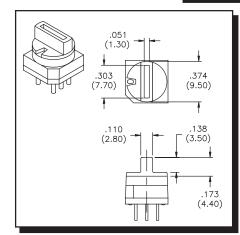
PT65 SERIES



Arrow shaped slot		Complete Model No. by Terminal Style			
Actuator Models			Right A	Right Angle	
		Straight	Pito	h	
Code (see truth tables)	Positions		.100" (2,54)	.200"(5,08)	
Binary Coded Decimal	10	PT65101	PT65101L254	PT65101L508	
Comp. of Binary Coded Dec.	10	PT65102	PT65102L254	PT65102L508	
Binary Coded Hexadecimal	16	PT65103	PT65103L254	PT65103L508	
Code 05, Gray Code	16	PT65105	PT65105L254	PT65105L508	
Comp. of Binary Coded Hex.	16	PT65106	PT65106L254	PT65106L508	
Code 11, ON/OFF	4	PT65111	PT65111L254	PT65111L508	
Code 12, Binary Coded Dec.	4	PT65112	PT65112L254	PT65112L508	
Code 21, Decimal	4	PT65121	PT65121L254	PT65121L508	
Code 24, Binary Coded Dec.	6	PT65124	PT65124L254	PT65124L508	
Code 25, Binary Coded Dec.	6	PT65125	PT65125L254	PT65125L508	
Code 26, Octal	8	PT65126	PT65126L254	PT65126L508	
Code 27, Octal complement	8	PT65127	PT65127L254	PT65127L508	



Spindle		Complete	e Model No. by 1	Terminal Style
Actuator Models			Right /	Angle
		Straight	Pito	h
Code (see truth tables)	Positions		.100" (2,54)	.200"(5,08)
Binary Coded Decimal	10	PT65301	PT65301L254	PT65301L508
Comp. of Binary Coded Dec.	10	PT65302	PT65302L254	PT65302L508
Binary Coded Hexadecimal	16	PT65303	PT65303L254	PT65303L508
Code 05, Gray Code	16	PT65305	PT65305L254	PT65305L508
Comp. of Binary Coded Hex.	16	PT65306	PT65306L254	PT65306L508
Code 11, ON/OFF	4	PT65311	PT65311L254	PT65311L508
Code 12, Binary Coded Dec.	4	PT65312	PT65312L254	PT65312L508
Code 21, Decimal	4	PT65321	PT65321L254	PT65321L508
Code 24, Binary Coded Dec.	6	PT65324	PT65324L254	PT65324L508
Code 25, Binary Coded Dec.	6	PT65325	PT65325L254	PT65325L508
Code 26, Octal	8	PT65326	PT65326L254	PT65326L508
Code 27, Octal complement	8	PT65327	PT65327L254	PT65327L508

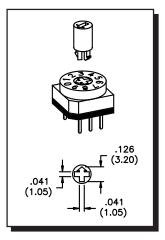


All models listed on this page	have 2
Common terminals except Code	e 11 and
Code 24 which have one.	

Other codes are available - consult factory.

Segment Wheel		Complete Model No. by Terminal Style		
Actuator Models			Right i	Angle
		Straight	Pito	:h
Code (see truth tables)	Positions		.100" (2,54)	.200"(5,08)
Binary Coded Decimal	10	PT65501	PT65501L254	PT65501L508
Comp. of Binary Coded Dec.	10	PT65502	PT65502L254	PT65502L508
Binary Coded Hexadecimal	16	PT65503	PT65503L254	PT65503L508
Code 05, Gray Code	16	PT65505	PT65505L254	PT65505L508
Comp. of Binary Coded Hex.	16	PT65506	PT65506L254	PT65506L508
Code 11, ON/OFF	4	PT65511	PT65511L254	PT65511L508
Code 12, Binary Coded Dec.	4	PT65512	PT65512L254	PT65512L508
Code 21, Decimal	4	PT65521	PT65521L254	PT65521L508
Code 24, Binary Coded Dec.	6	PT65524	PT65524L254	PT65524L508
Code 25, Binary Coded Dec.	6	PT65525	PT65525L254	PT65525L508
Code 26, Octal	8	PT65526	PT65526L254	PT65526L508
Code 27, Octal complement	8	PT65527	PT65527L254	PT65527L508

PT65 SERIES



Cross shaped slot		Complete Model No. by Terminal Style		
Actuator Models			Right Angle	
		Straight	Pito	ch
Code (see truth tables)	Positions		.100" (2,54)	.200"(5,08)
Binary Coded Decimal	10	PT65701	PT65701L254	PT65701L508
Comp. of Binary Coded Dec.	10	PT65702	PT65702L254	PT65702L508
Binary Coded Hexadecimal	16	PT65703	PT65703L254	PT65703L508
Code 05, Gray Code	16	PT65705	PT65705L254	PT65705L508
Comp. of Binary Coded Hex.	16	PT65706	PT65706L254	PT65706L508
Code 11, ON/OFF	4	PT65711	PT65711L254	PT65711L508
Code 12, Hexadecimal	4	PT65712	PT65712L254	PT65712L508
Code 21, Decimal	4	PT65721	PT65721L254	PT65721L508
Code 24, Binary Coded Dec.	6	PT65724	PT65724L254	PT65724L508
Code 25, Binary Coded Dec.	6	PT65725	PT65725L254	PT65725L508
Code 26, Octal	8	PT65726	PT65726L254	PT65726L508
Code 27, Octal complement	8	PT65727	PT65727L254	PT65727L508

Operating Elements snap-fit securely into PT65 (& P60A) Series switch models with cross shaped slot actuators. Order separately by Model number shown below and indicate color.



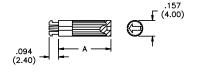


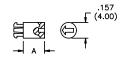




Spindle colors: red, gray or black

Model No.	Dim. A
SAPT65473	.287
SAPT654116	.457
SAPT654133	.524





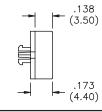
Short spindle above applies to model SAPT65473 only

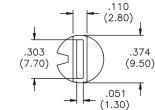
Segment wheel

colors: yellow, red, green, blue, gray or black

Model No.

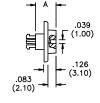
SRPT659544

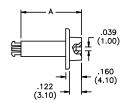




Knob color: red

Model No.	Dim. A
DKPT6510553	.209
DKPT65105157	.618
DKPT65105291	1.146
DKPT65105344	1.354





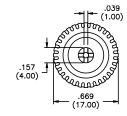


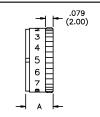
Short knob above applies to model DKPT6510553 only

Wheel color: white

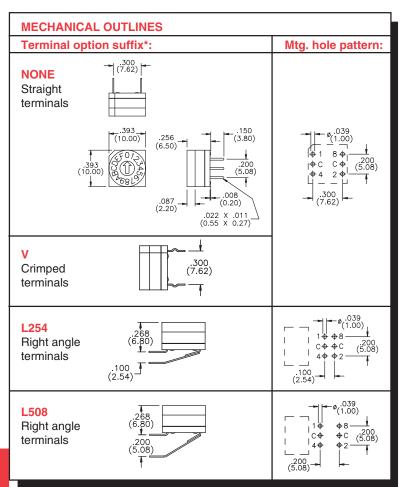
Model No.	Dim. A
DRPT651772	.283

consult factory for printing (fits PT65 models only)





PT65 SERIES



^{* &#}x27;None' indicates no option suffix is required.

PT65 SERIES STANDARD OPTIONS:

Actuators

- 1 Arrow shaped slot
- 3 Spindle
- 5 Segment wheel
- 7 Cross shaped slot

Codes

- 01 BCD
- 02 BCD complement
- 03 Hexadecimal
- 06 Hexadecimal Comp.

See other available codes on page G17

Terminals

None Straight V Crimped

L254 Rt. angle 2.54 (.100") L508 Rt. angle 5.08 (,200")

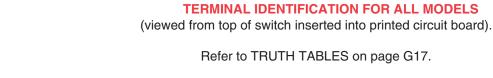
ORDER GUIDE:

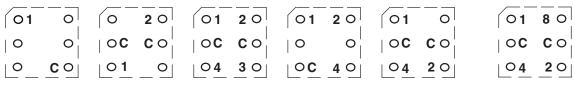
Make selections from the above table in sequence to specify a complete model number.

Note that 'None' indicates that no option suffix is required.

Example:

PT65101V
Series Terminals
Actuator Code





Code 11

Code 12

Code 21

Code 24

Codes 25 & 26

Code 27 and

10& 16 pos. models

P60A & P60AS SERIES **ROTARY DIP SWITCHES**

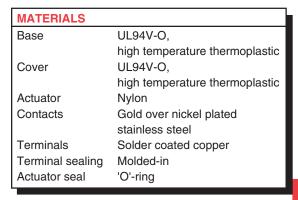
FEATURES

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE.

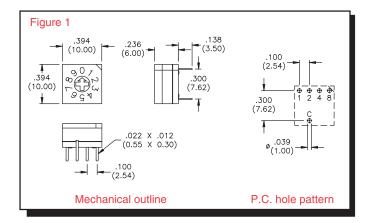
- New 4 + 1 terminal layout.
- Completely sealed for process compatibility.
- Ultra-compact size with 10 or 16 positions.
- Precision designed detent action.
- Thru-hole (P60A Series) & SMT (P60AS Series) models.
- High reliability & long life.
- Clockwise or counterclockwise settable.
- Solder coated terminals.

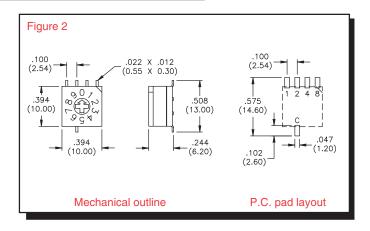
GENERAL SPECIFICATIONS	
ELECTRICALS	
Operating voltage Contact rating, static Contact rating, dynamic Test voltage Initial contact resistance Insulation resistance	24 VDC max. 400 mA max. 150 mA max. 250V 50Hz/1 min. < 100 milliohms > 100 megohms
MECHANICALS, THERMALS	
Torque Expected life Contact force Operating temperature range	0.98 inch-oz. min. (0.7 Ncm min.) 10,000 switching operations 15 grams min. -20°C to 85°C
SOLDERING RECOMMENDATIONS	
Hand soldering Wave soldering Reflow soldering (SMT) Solvent washing Aqueous cleaning	340°C max. for 2 seconds max. (40 watt iron max.) 260°C max. for 10 seconds max. 215°C max. for 40 seconds max. Freons or alcohol. (Do not use chlorinated solvents) Deionized water preferred





Thru-hole and SMT Printed Circuit Models		Model No. Thru-hole Mounting	Model No. Surface Mounting
Code (see truth tables pg. G22)	Positions	(see fig. 1)	(see fig. 2)
Binary Coded Decimal	10	P60A701	P60AS701
Complement of BCD	10	P60A702	P60AS702
Binary Coded Hexadecimal	16	P60A703	P60AS703
Complement of BCH	16	P60A706	P60AS706





STANDARD OPTIONS BY SERIES: P60AS **P60A Series Actuators** 3 Spindle X X* X 5 Segment wheel **X*** Χ 7 Cross shaped slot X Codes 01 BCD X X BCD complement Χ Χ 02 03 Hexadecimal Χ Χ Χ Hexadecimal Comp. **Terminals** X Straight None Crimped X X L508 Rt. angle 5.08 (.200") X None * - Assemble after soldering process.

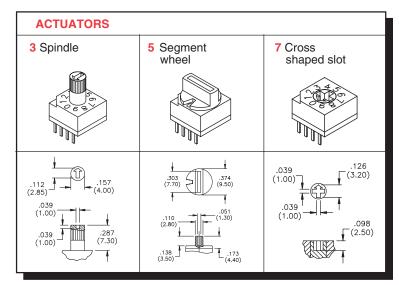
ORDER GUIDE:

Make selections from the above table in sequence to specify a complete model number.

Note that 'None' indicates that no option suffix is required.

Example; Series Terminals

New! P60A & P60AS SERIES



SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE.

See page G19 for optional Operating Elements.

CODES

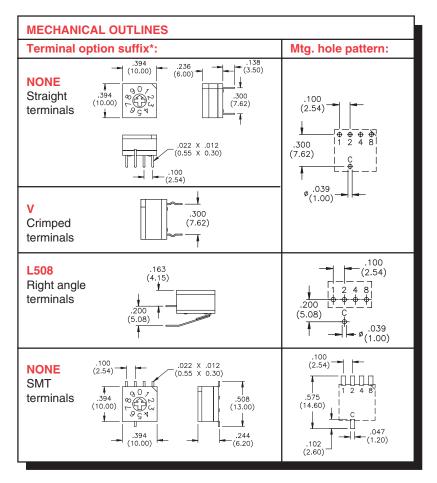
NOTE: For each dial position in tables, Common terminals (C) are connected to terminal number(s) indicated - i.e. - none or combinations of 1, 2, 4 or 8. Each model in this series has 2 Common terminals.

BINARY CODED				
DECIMA				
10 Posit	ions	;		
Dial No.	1	2	4	8
0				
1	•			
2		•		
3	•	•		
4			•	
5	•		•	
6		•	•	
7	•	•	•	
8				•
9	•			•

COMP.	COMP. OF BINARY				
CODED	CODED DECIMAL (02)				
10 Posit	ions	•			
Dial No.	1	2	4	8	
0	•	•	•	•	
1		•	•	•	
2	•		•	•	
3			•	•	
4	•	•		•	
5		•		•	
6	•			•	
7				•	
8	•	•	•		
9		•	•		

BINARY	CC	DE)	
HEXADECIMAL (03)				
16 Posit	ions	;		
Dial No.	1	2	4	8
0				
1	•			
2		•		
3	•	•		
4			•	
5	•		•	
6		•	•	
7	•	•	•	
8				•
9	•			•
Α		•		•
В	•	•		•
С			•	•
D	•		•	•
Е		•	•	
F	•	•	•	•

COMP. OF BINARY				
CODED HEXADEC. (06)				
16 Positi	ons	;		
Dial No.	1	2	4	8
0	•	•	•	
1		•	•	•
2	•		•	
3			•	
4	•	•		
5		•		
6	•			
7				
8	•	•	•	
9		•	•	
Α	•		•	
В			•	
С	•	•		
D		•		
E	•			
F				



^{* &#}x27;None' indicates no option suffix is required.

G

PT65 SERIES PULSE GENERATORS

FEATURES

- 3 + 3 terminal layout.
- 10 positions.
- Completely sealed for process compatibility.
- Precision designed detent action.
- Compact size.

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE.

- High reliability & long life.
- Clockwise or counterclockwise settable.
- Solder coated terminals.





The pulse generator is a mechanical rotary switch connecting input C to outputs 1 and 2 in a time delayed sequence. Typical applications include dimmer and volume control, where adding or subtracting instructions are read into digital electronics.

Code 31: The connections between input C and terminals 1 and 2 occur only for the duration of the pulses, after which they are disconnected (set back to 0).

Contact bounce pulse duration (at 15 rpm):

C+Pin 1 > 50 msC+Pin 1+Pin 2 > 100 ms C+Pin 2 > 50 ms

Solvent washing

Aqueous cleaning

MATERIALS	
Base	UL94V-O, high temperature thermoplastic
Cover	UL94V-O, high temperature thermoplastic
Actuator	POM
Contacts	Gold over nickel plated bronze
Terminals	Gold over nickel plated bronze
Terminal sealing	Molded-in
Actuator seal	'O'-ring

Straight

PT65131

PT65331

Complete Model No. by Terminal Style

.100" (2,54)

PT65131L254

PT65331L254

Right Angle

Pitch

.200"(5,08)

PT65131L508

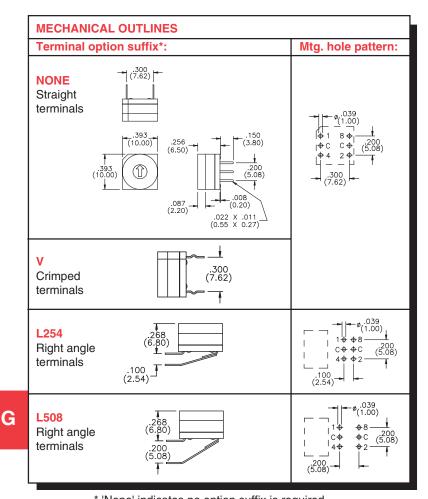
PT65331L508

GENERAL SPECIFICATION	NS			
ELECTRICALS				
Operating voltage Contact rating, static Contact rating, dynamic Test voltage Initial contact resistance Contact bounce	12 VDC max. 400 mA max. 150 mA max. 250 V for 1 minute < 80 milliohms < 10 milliseconds		r to Actuator vings shown	
Pulse durations	See graphs below	Code	Actuator	
MECHANICALS, THERMALS		Code 31	Arrow shpd. slot	
Torque	0.98 inch-oz. min.	Code 31	Spindle	
Expected life	(0.7 Ncm min.) 10,000 switching operations	Т		
Contact force Positions per rotation Rotation speed Vibration resistance Operating temperature range	15 grams min. 10 50 rpm (Max.) 10g			
SOLDERING RECOMMENDA	TIONS			
Hand soldering Wave soldering	340°C max. for 2 seconds max. (40 watt iron max.) 260°C max. for 10 seconds max.			

Freons or alcohol. (Do not use chlorinated solvents)

Deionized water preferred

PT65 SERIES PULSE GENERATORS



* 'None' indicates no option suffix is required.

PT65 SERIES STANDARD OPTIONS:

Actuators

- 1 Arrow shaped slot
- 3 Spindle
- 5 Segment wheel
- 7 Cross shaped slot

Codes

31 10 position pulse generator

Terminals

None Straight V Crimped

L254 Rt. angle 2.54 (.100") **L508** Rt. angle 5.08 (,200")

ORDER GUIDE:

Make selections from the above table in sequence to specify a complete model number.

Note that 'None' indicates that no option suffix is required.

Example;

PT65131V
Series Terminals
Actuator Code

ACTUATORS

