

DIP Switches, Extended Actuator, Auto Insertable, Through Hole and Surface Mount

FEATURES:

- Available in PC or surface mount termination.
- High pressure wiping contact allows aqueous or solvent cleaning without tape seal.
- Auto-insertable
- Tape Seal version available for vacuum pick-n-place
- Unique design can withstand vapor phase reflow or wave soldering conditions.
- Gas tight contacts
- Shipped in the off position

ENVIRONMENTAL SPECIFICATIONS:

Operating Temperature-30°C to + 85°C
 Storage Temperature-45°C to + 100°C
 Solder Heat Resistance.....245°C ± 5°C with switch in "off" position 30 seconds when mounted on a .060" thick PCB per MIL-STD202, Method 210
 Cleaning.....Aqueous solution or solvent

MATERIAL SPECIFICATIONS:

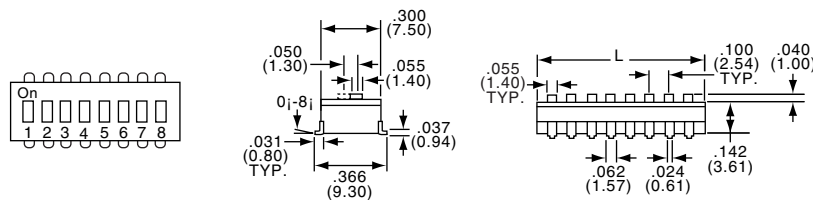
Base and CoverPPS-UL94V-0, (Black)
 Actuator.....PA6T-UL94V-0, (White)
 Fixed Contact/TerminalCopper alloy plate-solder/copper
 Moving ContactCopper alloy plate-gold/nickel

TYPICAL PERFORMANCE CHARACTERISTICS:

Contact Rating0.4 VA @ 20 VDC max.
 Max Rating Switching-100 Milliamp @ 24VDC
 Min Rating Switching-1 Microamp @ 1 Millivolt
 Max Rating Non Switching-1 Amp @ 5VDC
 Initial Contact Resistance50 Milliohms max.
 Insulation Resistance1,000 Megohms min. @ 100 VDC
 Dielectric Strength500 VAC
 Operating ForceLess than 800 grams
 Actuator TravelAD/R Series 1.30mm/.050" piano style 25°
 Life Expectancy1,000 Cycles

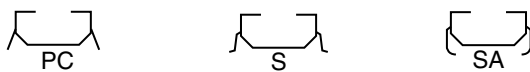


ADE



ADE08
Extended Actuator

S Termination Shown



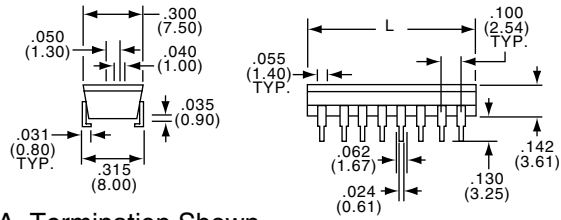
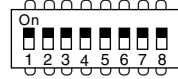
| PC Term. | | "S" Term. | | "SA" Term. | | No. of Positions | Actuator Style | Dim. L |
|------------------|------------|------------------|------------|------------------|------------|------------------|----------------|--------------|
| Tyco Electronics | Alcoswitch | Tyco Electronics | Alcoswitch | Tyco Electronics | Alcoswitch | | | |
| 1437586-2 | ADE02 | 1437586-4 | ADE02S | 1437586-5 | ADE02SA | 2 | Slide | .278(7.06) |
| 1437586-7 | ADE03 | 1437586-8 | ADE03S | — | ADE03SA | 3 | Slide | .378(9.60) |
| 1-1437586-0 | ADE04 | 1-1437586-2 | ADE04S | 1-1437586-3 | ADE04SA | 4 | Slide | .478(12.14) |
| 1-1437586-5 | ADE05 | 1-1437586-7 | ADE05S | — | ADE05SA | 5 | Slide | .578(14.68) |
| 1-1437586-8 | ADE06 | 2-1437586-0 | ADE06S | 2-1437586-1 | ADE06SA | 6 | Slide | .678(17.22) |
| 2-1437586-3 | ADE07 | 2-1437586-5 | ADE07S | — | ADE07SA | 7 | Slide | .778(19.76) |
| 2-1437586-6 | ADE08 | 2-1437586-8 | ADE08S | 2-1437586-9 | ADE08SA | 8 | Slide | .878(22.30) |
| 3-1437586-0 | ADE09 | — | ADE09S | — | ADE09SA | 9 | Slide | .978(24.84) |
| 3-1437586-2 | ADE10 | 3-1437586-7 | ADE10S | — | ADE10SA | 10 | Slide | 1.078(27.38) |
| 3-1437586-8 | ADE12 | 1571337-1 | ADE12S | — | ADE12SA | 12 | Slide | 1.278(32.51) |

See Page A9 for PC Pad Layout.

DIP Switches, Flush Acuator, Auto Insertable, Through Hole, and Surface Mount

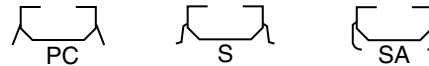
SEE PAGE A7 FOR PRODUCT SPECIFICATIONS

ADF



SA Termination Shown

See Page A9 for PC Pad Layout.



| PC Term. | | PC Term. w/Tape | | No. of Positions | Actuator Style | Dim. L |
|------------------|------------|------------------|------------|------------------|----------------|--------------|
| Tyco Electronics | Alcoswitch | Tyco Electronics | Alcoswitch | | | |
| 4-1437586-2 | ADF02 | 5-1437586-0 | ADF02T | 2 | Slide | .278(7.06) |
| 5-1437586-1 | ADF03 | 5-1437586-6 | ADF03T | 3 | Slide | .378(9.60) |
| 5-1437586-7 | ADF04 | 6-1437586-4 | ADF04T | 4 | Slide | .478(12.14) |
| 6-1437586-5 | ADF05 | 7-1437586-0 | ADF05T | 5 | Slide | .578(14.68) |
| 7-1437586-1 | ADF06 | 8-1437586-0 | ADF06T | 6 | Slide | .678(17.22) |
| 8-1437586-1 | ADF07 | 8-1437586-5 | ADF07T | 7 | Slide | .778(19.76) |
| 8-1437586-6 | ADF08 | 9-1437586-5 | ADF08T | 8 | Slide | .878(22.30) |
| 9-1437586-6 | ADF09 | — | ADF09T | 9 | Slide | .978(24.84) |
| 1437587-1 | ADF10 | 1437587-7 | ADF10T | 10 | Slide | 1.078(27.38) |
| — | ADF12 | 1571336-1 | ADF12T | 12 | Slide | 1.278(32.51) |

| "S" Term. | | "S" Term. w/Tape Seal | | Tape & Reel | | No. of Positions | Actuator Style | Dim. L |
|------------------|------------|-----------------------|------------|------------------|------------|------------------|----------------|--------------|
| Tyco Electronics | Alcoswitch | Tyco Electronics | Alcoswitch | Tyco Electronics | Alcoswitch | | | |
| 4-1437586-4 | ADF02S | 4-1437586-8 | ADF02ST | 4-1437586-9 | ADF02STTR | 2 | Slide | .278(7.06) |
| 5-1437586-2 | ADF03S | 5-1437586-4 | ADF03ST | 5-1437586-5 | ADF03STTR | 3 | Slide | .378(9.60) |
| 5-1437586-9 | ADF04S | 6-1437586-3 | ADF04ST | 1437583-6 | ADF04STTR | 4 | Slide | .478(12.14) |
| 6-1437586-6 | ADF05S | 6-1437586-8 | ADF05ST | 6-1437586-9 | ADF05STTR | 5 | Slide | .578(14.68) |
| 7-1437586-5 | ADF06S | 7-1437586-8 | ADF06ST | 7-1437586-9 | ADF06STTR | 6 | Slide | .678(17.22) |
| 8-1437586-2 | ADF07S | 8-1437586-3 | ADF07ST | 8-1437586-4 | ADF07STTR | 7 | Slide | .778(19.76) |
| 8-1437586-8 | ADF08S | 9-1437586-1 | ADF08ST | 9-1437586-2 | ADF08STTR | 8 | Slide | .878(22.30) |
| 9-1437586-7 | ADF09S | 9-1437586-8 | ADF09ST | 9-1437586-9 | ADF09STTR | 9 | Slide | .978(24.84) |
| 1437587-3 | ADF10S | 1437587-5 | ADF10ST | 1437587-6 | ADF10STTR | 10 | Slide | 1.078(27.38) |
| 1437587-8 | ADF12S | — | ADF12ST | 1437587-9 | ADF12STTR | 12 | Slide | 1.278(32.51) |

| "SA" Term. | | "SA" Term. w/Tape Seal | | No. of Positions | Actuator Style | Dim. L |
|------------------|------------|------------------------|------------|------------------|----------------|--------------|
| Tyco Electronics | Alcoswitch | Tyco Electronics | Alcoswitch | | | |
| 4-1437586-5 | ADF02SA | 4-1437586-6 | ADF02SAT | 2 | Slide | .278(7.06) |
| 5-1437586-3 | ADF03SA | — | ADF03SAT | 3 | Slide | .378(9.60) |
| 6-1437586-0 | ADF04SA | 6-1437586-1 | ADF04SAT | 4 | Slide | .478(12.14) |
| — | ADF05SA | — | ADF05SAT | 5 | Slide | .578(14.68) |
| 7-1437586-6 | ADF06SA | 7-1437586-7 | ADF06SAT | 6 | Slide | .678(17.22) |
| — | ADF07SA | — | ADF07SAT | 7 | Slide | .778(19.76) |
| 8-1437586-9 | ADF08SA | 9-1437586-0 | ADF08SAT | 8 | Slide | .878(22.30) |
| — | ADF09SA | — | ADF09SAT | 9 | Slide | .978(24.84) |
| — | ADF10SA | 1437587-4 | ADF10SAT | 10 | Slide | 1.078(27.38) |
| — | ADF12SA | — | ADF12SAT | 12 | Slide | 1.278(32.51) |

DIP Switches, Piano Acuator, Auto Insertable, Through Hole, and Surface Mount

A
AD Series

ADP

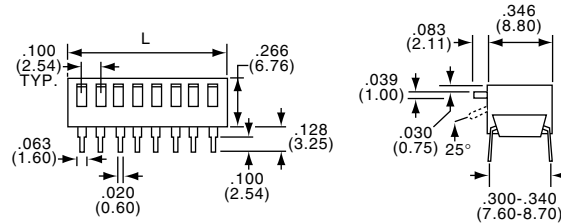


ADP04S

Piano Actuator

"PC" Termination Shown

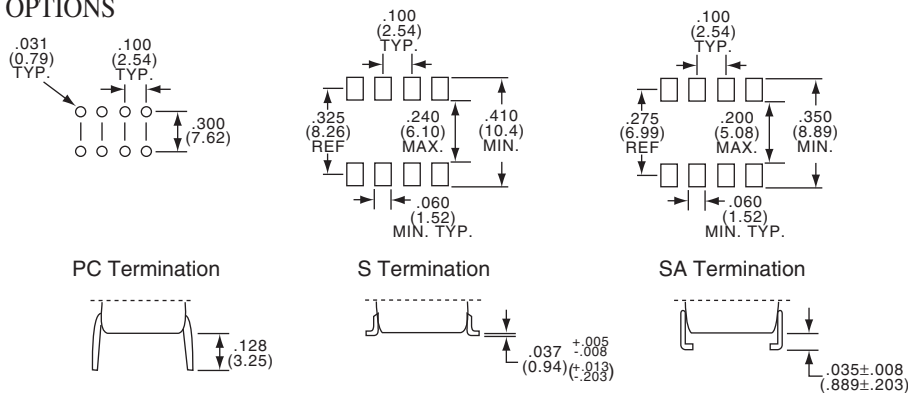
SEE PAGE A7 FOR PRODUCT SPECIFICATIONS



| Lever Down "On" | | "S" Term Lever Down "On" | | "SA" Term. Lever Down "On" | | No. of Positions | Actuator Style | Dim. L |
|------------------|------------|-----------------------------|------------|-------------------------------|------------|------------------|----------------|--------------|
| Tyco Electronics | Alcoswitch | Tyco Electronics | Alcoswitch | Tyco Electronics | Alcoswitch | | | |
| 1-1437587-1 | ADP02 | 1-1437587-2 | ADP02S | 1-1437587-3 | ADP02SA | 2 | Piano | .278(7.06) |
| 1-1437587-5 | ADP04 | 1-1437587-7 | ADP04S | 1-1437587-8 | ADP04SA | 4 | Piano | .478(12.14) |
| 2-1437587-0 | ADP05 | 2-1437587-1 | ADP05S | — | ADP05SA | 5 | Piano | .578(14.68) |
| 2-1437587-2 | ADP06 | 2-1437587-3 | ADP06S | 2-1437587-4 | ADP06SA | 6 | Piano | .678(17.22) |
| 2-1437587-5 | ADP07 | — | ADP07S | — | ADP07SA | 7 | Piano | .778(19.76) |
| 2-1437587-6 | ADP08 | 2-1437587-8 | ADP08S | 2-1437587-9 | ADP08SA | 8 | Piano | .878(22.30) |
| 3-1437587-0 | ADP09 | — | ADP09S | 3-1437587-1 | ADP09SA | 9 | Piano | .978(24.84) |
| 3-1437587-3 | ADP10 | 3-1437587-6 | ADP10S | — | ADP10SA | 10 | Piano | 1.078(27.38) |

| Lever Up "On" | | "S" Term Lever Up "On" | | "SA" Term. Lever Up "On" | | No. of Positions | Actuator Style | Dim. L |
|------------------|------------|---------------------------|------------|-----------------------------|------------|------------------|----------------|--------------|
| Tyco Electronics | Alcoswitch | Tyco Electronics | Alcoswitch | Tyco Electronics | Alcoswitch | | | |
| 4-1437587-7 | ADPA02 | — | ADPA02S | — | ADPA02SA | 2 | Piano | .278(7.06) |
| 4-1437587-8 | ADPA04 | 5-1437587-0 | ADPA04S | 5-1437587-1 | ADPA04SA | 4 | Piano | .478(12.14) |
| 5-1437587-2 | ADPA05 | 5-1437587-3 | ADPA05S | — | ADPA05SA | 5 | Piano | .578(14.68) |
| 5-1437587-4 | ADPA06 | 5-1437587-5 | ADPA06S | 5-1437587-6 | ADPA06SA | 6 | Piano | .678(17.22) |
| 5-1437587-7 | ADPA07 | — | ADPA07S | — | ADPA07SA | 7 | Piano | .778(19.76) |
| 5-1437587-8 | ADPA08 | 6-1437587-0 | ADPA08S | — | ADPA08SA | 8 | Piano | .878(22.30) |
| — | ADPA09 | — | ADPA09S | — | ADPA09SA | 9 | Piano | .978(24.84) |
| 6-1437587-1 | ADPA10 | — | ADPA10S | — | ADPA10SA | 10 | Piano | 1.078(27.38) |

TERMINATION OPTIONS



Hybrid DIP Switches, Through Hole and Surface Mount

A
AR Series

AUTO-INSERTABLE* DIP SWITCH WITH INTEGRAL RESISTORS

SEE PAGE A7 FOR PRODUCT SPECIFICATIONS

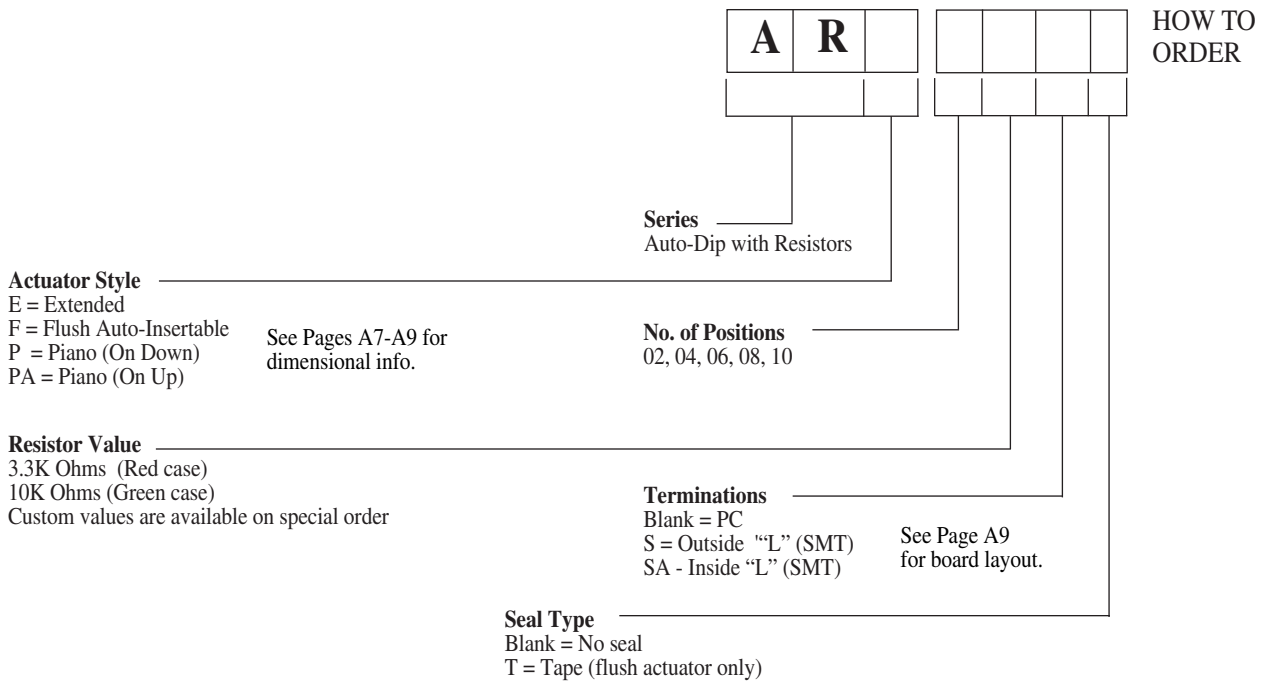
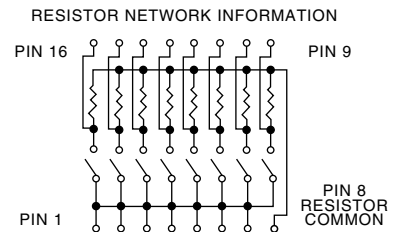
* Flush actuator versions are auto-insertable

FEATURES:

All the features of the AD SERIES - PLUS

- Thick film pull-up resistors molded into the base of the switch.
- Replaces discrete resistor network plus DIP Switch with one component.
- Available with 3.3K ohms or 10K ohms resistors.
- Ceramic substrate allows wave soldering temperatures of 245°C for up to 30 seconds per MIL-STD 202, Method 210.
- Custom resistor values available.
- Shipped in off position.

| Rated Pwr. | Resistance | Tolerance | Max. Voltage |
|------------|------------------|-------------|--------------|
| 125 mW | 3.3K Ohms (red) | ±5% at 85°C | 24V |
| 125 mW | 10K Ohms (green) | ±5% at 85°C | 24V |



Example: ARF 06 10KST = Auto-Dip
 Flush actuator
 06 positions
 10K ohms resistors
 Outside "L" terminations & tape seal