The Gemini Series "A" Series Toggles 5 Amp Refer to Pages C32-C36 for Additional Options

"A" SERIES DESIGN FEATURES

- · Meets CSA Requirements
- Toggle Machined brass, heavy nickel plated.
- Bushing & Frame Rigid one-piece die cast, copper flashed, heavy
- Fixed Contact Welded construction, selective placement of precious metal. (Gold or silver.)
- Movable Contact "Captured" design eliminates possibility of displacement due to shock. (01 function.)
- Terminal Seal Epoxy sealing of terminals is standard.
- Termination Precious metal(or silver)/brass or copper strip with
- Case DAP for electrical performance and mechanical strength, UL94VO.

MATERIAL SPECIFICATIONS:

| Contacts | Gold/gold flash |
|---------------|-----------------|
| | Silver/tin lead |
| Case Material | Thermoset |
| Terminal Seal | Epoxy |

ENVIRONMENTAL SPECIFICATIONS

| Operating Temperature20°C to +85°C (-4°F to +185°F) |
|-----------------------------------------------------------------------------------------------|
| Storage Temperature 45° C to $+100^{\circ}$ C (-49° F to $+212^{\circ}$ F) |
| Solder Heat Resistance See page M6-7 |

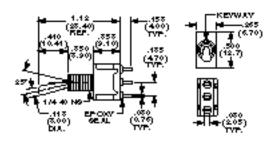
TYPICAL PERFORMANCE CHARACTERISTICS.

| I YPICAL PERFORMAN | NCE CHARACTERISTICS: |
|-----------------------------|--------------------------------------|
| Contact Rating | Gold: 0.4 VA @ 20 VAC/DC |
| S | Silver: 2 A @ 250 VAC: 5 A @ 125 VAC |
| Initial Contact Resistance3 | 0 Milliohms max. |
| Contact Timing | Break before make |
| Insulation Resistance1 | ,000 Megohms @ 500 VDC. |
| Dielectric Strength1 | ,000 Volts RMS @ sea level |
| Actuation Force | Momentary: 950 Grams max. |
| Plunger/Actuator TravelN | Maintained: 1750 Grams max. 25° |
| Life Expectancy3 | 30,000 Cycles |
| | |

SPDT



A101SYZQ

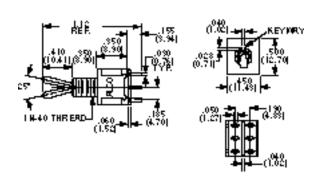


| Model | Type | Act. Code P.M8 | 714 |
|-----------------|------|----------------|---------------|
| Silver Contacts | | | |
| A101SYZQ | SPDT | 1 | On None On |
| A103SYZQ | SPDT | 5 | On Off On |
| A105SYZQ | SPDT | 5 | (On) Off (On) |
| A107SYZQ | SPDT | 5 | On Off (On) |
| A108SYZQ | SPDT | 1 | On None (On) |
| Gold Contacts | | | |
| A101SYZB | SPDT | 1 | On None On |
| A103SYZB | SPDT | 5 | On Off On |
| A105SYZB | SPDT | 5 | (On) Off (On) |
| A107SYZB | SPDT | 5 | On Off (On) |

DPDT



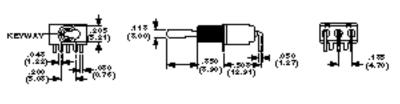
A201SYZQ

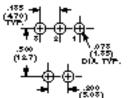


| Type | Act. Code P.M | 8 🏝 | 1 | 4 |
|------|--------------------------------------------------------------|-----------------------------------------------------------|-----------------------------------------------------------------------------------------------|----------|
| ets | | | | |
| DPDT | 2 | On | None | On |
| DPDT | 6 | On | Off | On |
| DPDT | 6 | (On) | Off | (On) |
| DPDT | 6 | On | Off | (On) |
| DPDT | 2 | On | None | (On) |
| DP3T | 11 | On | On | On |
| DP3T | 11 | On | On | (On) |
| DP3T | 11 | (On) | On | (On) |
| | DPDT DPDT DPDT DPDT DPDT DPDT DP3T DP3T | DPDT 2 DPDT 6 DPDT 6 DPDT 6 DPDT 6 DPDT 2 DPST 11 DP3T 11 | DPDT 2 On DPDT 6 On DPDT 6 (On) DPDT 6 On DPDT 6 On DPDT 6 On DPDT 2 On DPST 11 On DP3T 11 On | DPDT 2 |



SEE PAGE C24 FOR PRODUCT SPECIFICATIONS

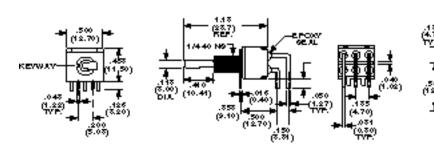




SPDT/DPDT



A101SYAB Horizontal Actuation



| Gold Contact | ts | | • | 1 / |
|--------------|------|----------------|----|-----------|
| Model | Type | Act. Code P.M8 | _ | |
| A101SYAB | SPDT | 1 | On | None On |
| A103SYAB | SPDT | 5 | On | Off On |
| A201SYAB | DPDT | 2 | On | None On |
| A208SYAB | DPDT | 2 | On | None (On) |

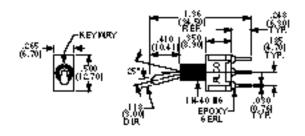
SPDT/DPDT

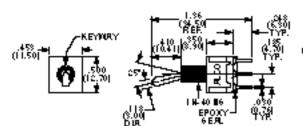


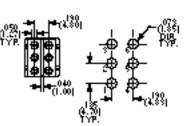
A101SYCB



A201SYCB





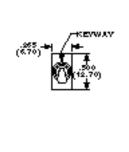


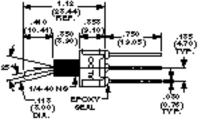
| Gold Contacts Model | Type | Act . Code P.M8 | r | 1 | 4 |
|------------------------|------|-----------------|----|------|------|
| A101SYCB | SPDT | 1 | On | None | On |
| A103SYCB | SPDT | 5 | On | Off | On |
| A108SYCB | SPDT | 1 | On | None | (On) |
| A201SYCB | DPDT | 2 | On | None | On |
| A203SYCB | DPDT | 6 | On | Off | On |
| A208SYCB | DPDT | 2 | On | None | (On) |

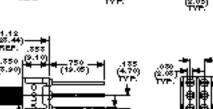
SEE PAGE C24 FOR PRODUCT SPECIFICATIONS

SPDT/DPDT









| (200 440 FE (0.44) .3 (0.44) . | 2.19 50 (2.19) 2.19 3 (3.19) 3 (3.19) 3 (3.19) 4 (3.19) 5 (3.19) 5 (3.19) 5 (3.19) 5 (3.19) 5 (3.19) | (4,75%) + (4,75%) (4,75%) | 040 (1.02) |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|---------------------------|---------------|
| bix" | | TVF. | |

| Silver Contacts Model | Туре | Act . Code P. M8 | r | 1 | 4 |
|--------------------------|------|------------------|----|------|----|
| A101SYWO | SPDT | 1 | On | None | On |
| A103SYWO | SPDT | 5 | On | Off | On |
| A201SYWQ | DPDT | 2 | On | None | On |
| A203SYWO | DPDT | 6 | On | Off | On |

SPDT/DPDT

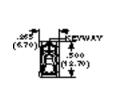
A201SYWQ



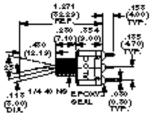
A101SDZQ

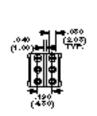


A201SDZQ







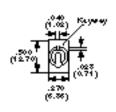


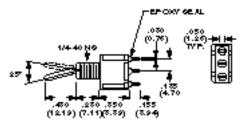
| Silver Contacts Model | Type | Act . Code P.M8 | Ł | 1 | 4 |
|----------------------------------|----------------------|-----------------|----|---------------------|----|
| A101SDZQ A103SDZQ A201SDZQ | SPDT SPDT DPDT | 1 5 2 | On | None Off None | On |
| A203SDZQ | DPDT | 6 | On | Off | On |



SEE PAGE C24 FOR PRODUCT SPECIFICATIONS

SPDT



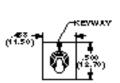




A101SDCQ



A201SDCQ



| Silver Contacts Model | Туре | Act. Code P. M8 | 714 |
|--------------------------|------|-----------------|--------------|
| A101SDCQ | SPDT | 1 | On None On |
| A103SDCQ | SPDT | 5 | On Off On |
| A201SDCQ | DPDT | 2 | On None On |
| A203SDCQ | DPDT | 6 | On Off On |
| A208SDCQ | DPDT | 2 | On None (On) |

SPDT/DPDT



A101SD9AQ Horizontal Actuation



A201SD9AQ Horizontal Actuation

| Silver Contacts Model | Gold Contacts Model | Туре | Act. Code P. M8 | 714 |
|--------------------------|------------------------|------|-----------------|--------------|
| A101SD9AQ | A101SD9AB | SPDT | 1 | On None On |
| A103SD9AQ | A103SD9AB | SPDT | 5 | On Off On |
| A108SD9AQ | | SPDT | 1 | On None (On) |
| A201SD9AQ | A201SD9AB | DPDT | 2 | On None On |
| A208SD9AQ | A208SD9AB | DPDT | 2 | On None (On) |

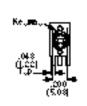
The Gemini Series "A" Series Toggles 5 Amp "Locking Actuator" Refer to Pages C32-C36 for Additional Options

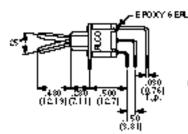
SEE PAGE C24 FOR PRODUCT SPECIFICATIONS

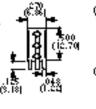
SPDT

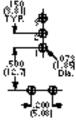


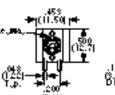
A101SD9AV2Q Vertical Actuation

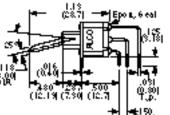


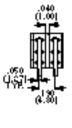


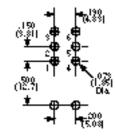












DPDT



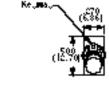
A201SD9AV2Q Vertical Actuation

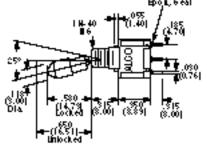
| Silver Contacts Model | Type | Act. Code P. M8 | r | 1 | 4 | Silver Contacts Model | Type | Act. Code P.M8 | 7.1 | 4 |
|----------------------------|--------------|-----------------|---|-------------|---|-------------------------------------------|----------------------|----------------|------------------------------|----|
| A101SD9AV2Q A103SD9AV2Q | SPDT SPDT | 1 5 | | None Off | | A201SD9AV2Q A203SD9AV2Q A208SD9AV2Q | DPDT DPDT DPDT | 2 6 2 | On None On Off On None | On |

SPDT



A101KZQ

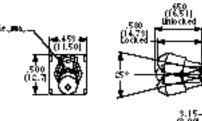


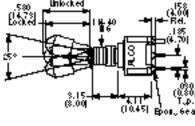


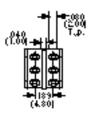




A201KZQ







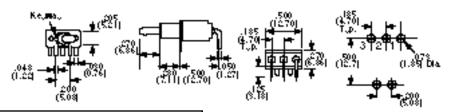
| Silver Contacts Model | Туре | Act. Code P. M8 | r | 1 | 4 |
|--------------------------|------|-----------------|----|------|----|
| A101KZQ | SPDT | 1 | On | None | On |
| A103KZQ | SPDT | 5 | On | Off | On |

| Gold Contacts Model | Silver Contacts Model | Type | Act. Code P. M8 | L | 1 | 4 |
|------------------------|--------------------------|------|-----------------|------|------|------|
| A201KZB | A201KZQ | DPDT | 2 | On | None | On |
| A203KZB | A203KZQ | DPDT | 6 | On | Off | On |
| A205KZB | A205KZQ | DPDT | 6 | (On) | Off | (On) |
| A211KZB | A211KZQ | SP3T | 11 | On | On | On |



"A" Series Toggles Right Angle The Gemini Series Refer to Pages C32-C36 for Additional Options

RODUCT SPECIFICATIONS





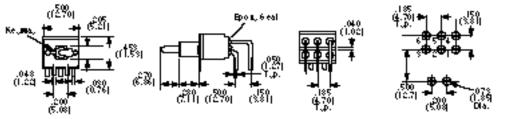
SPDT

DPDT

 Silver Contacts Model
 Gold Contacts Model
 Type
 Act. Code P. M8
 L
 L

 A101MD9AQ
 A101MD9AB
 SPDT
 1
 On None On Off On A108MD9AQ
 On Off On A108MD9AB
 SPDT
 5
 On Off On None (On)

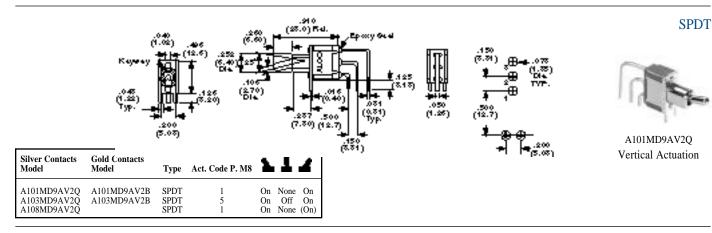
A101MD9AQ Horizontal Actuation

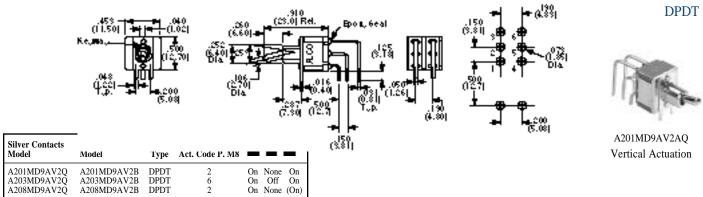




A201MD9AQ Horizontal Actuation

| Silver Contacts Model | Gold Contacts Model | Туре | Act. Code P. M8 | 773 |
|--------------------------|------------------------|------|-----------------|------------|
| A201MD9AQ | A201MD9AB | DPDT | 2 | On None On |
| | A203MD9AB | DPDT | 6 | On Off On |





Need more technical information?

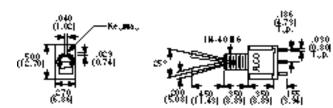
The Gemini Series "A" Series Toggles Flat Actuators/Wire Lug Refer to Pages C32-C36 for Additional Options

SEE PAGE C24 FOR PRODUCT SPECIFICATIONS

SPDT







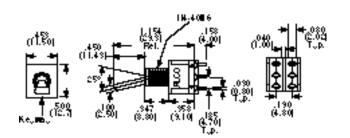


| ı | er Contacts | Type | Act. Code P.M8 | L | 1 | 4 |
|---|--------------------------------------------------|------------------------------|----------------|------------------------|---------------------------|--------------------------|
| | A101P3YZQ A103P3YZQ A105P3YZQ A107P3YZQ | SPDT SPDT SPDT SPDT | 1 5 5 | On On (On) On | None Off Off Off | On On (On) (On) |
| ı | A108P3YZQ | SPDT | 1 | On | None | (On) |

DPDT



A201P3YZQ

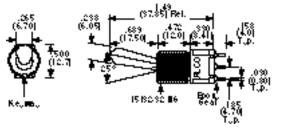


| Silver Contacts Model | Type | Act. Code P.M8 | 1 | 1 | 4 |
|--------------------------|------|----------------|------|------|------|
| A201P3YZQ | DPDT | 2 | On | None | On |
| A203P3YZQ | DPDT | 6 | On | Off | On |
| A205P3YZQ | DPDT | 6 | (On) | Off | (On) |
| A207P3YZQ | DPDT | 6 | On | Off | (On) |
| A208P3YZQ | DPDT | 2 | On | None | (On) |
| A211P3YZQ | SP3T | 11 | On | On | On |
| A215P3YZQ | SP3T | 11 | (On) | On | (On) |

SPDT



A101TZQ



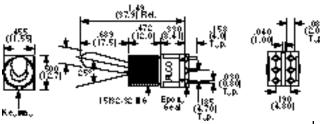


| Silver Contacts Model | Type | Act. Code P.M8 | 1 | . 1 | 1 |
|--------------------------|------|----------------|----|------|----|
| A101TZQ | SPDT | 1 | On | None | On |
| A103TZQ | SPDT | 5 | On | Off | On |

DPDT



A201TZQ



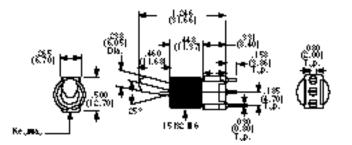
| Silver Contacts Model | Type | Act. Code P.M8 | 714 |
|--------------------------|------|----------------|------------|
| A201TZQ | DPDT | 2 | On None On |
| A203TZQ | DPDT | 6 | On Off On |
| A211TZQ | SP3T | 11 | On On On |



The Gemini Series

SEE PAGE C24 FOR PRODUCT SPECIFICATIONS

SPDT

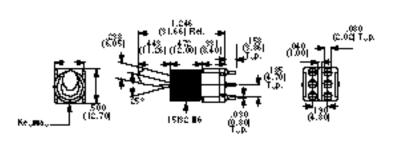




A103T1ZQ

| Silver Contacts Model | Туре | Act. Code P. M8 | 714 |
|--------------------------|------|-----------------|---------------|
| A101T1ZQ | SPDT | 1 | On None On |
| A103T1ZQ | SPDT | 5 | On Off On |
| A105T1ZQ | SPDT | 5 | (On) Off (On) |
| A108T1ZQ | SPDT | 1 | On None (On) |

DPDT





A201T1ZQ

| Silver Contacts Model | Туре | Act. Code P. M8 | 7 | 14 |
|--------------------------|------|-----------------|------|----------|
| A201T1ZQ | DPDT | 2 | On | None On |
| A203T1ZQ | DPDT | 6 | On | Off On |
| A205T1ZQ | DPDT | 6 | (On) | Off (On) |
| A207T1ZQ | DPDT | 6 | On | Off (On) |
| A208T1ZQ | DPDT | 2 | On | None(On) |
| A211T1ZQ | SP3T | 11 | On | On On |

The Gemini Series "A" Series Miniature Toggles

FEATURES

Hardware supplied with threaded bushings: two hex nuts, one internal tooth lockwasher and one locking ring. (See Hardware Section for: dress nuts, plastic caps and environment boot seals.)

TYPICAL PERFORMANCE CHARACTERISTICS:

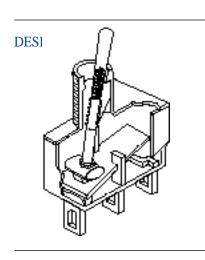
Contact RatingSilver: 2 A @ 250 VAC or 5 A @ 125 VAC Gold: 0.4 VA @ 20 VAC/DC max.

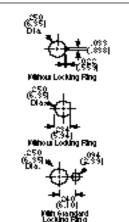
Insulation Resistance1,000 Megohms min. @ 500 VDC.

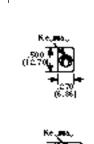
Dielectric Strength1,000 Volts RMS @ sea level initial Electrical Life30,000 Cycles

ENVIRONMENTAL SPECIFICATIONS

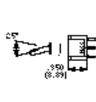
Operating Temperature........ -20° C to $+85^{\circ}$ C (-4° F to $+185^{\circ}$ F) Storage Temperature............45°C to $+100^{\circ}$ C (-49° F to $+212^{\circ}$ F)





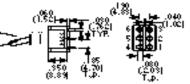


Bushing

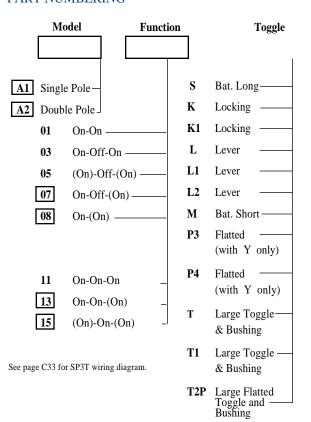


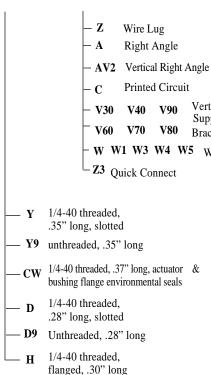


K. K1:



PART NUMBERING





Terminal Contact Cap Color Option (Nickel Standard) Black Q Silver Red **B** Gold Gold over Silver U.L.(Q or G Vertical contact only) Support Bracket w W1 W3 W4 W5 Wire Wrap Note: For surface mount termination, use the "TST" series, Page C8

Other Options

- N Black finish toggle, bushing and hardware. Add "N" to end of part number, but before U.L. option.
- O Internal O-ring environmental actuator seal. Add letter after toggle option: S,M,L,L1 & L2.
- P Anti-Push-In/Anti rotate. Add letter after toggle S,M,L,L1 & L2

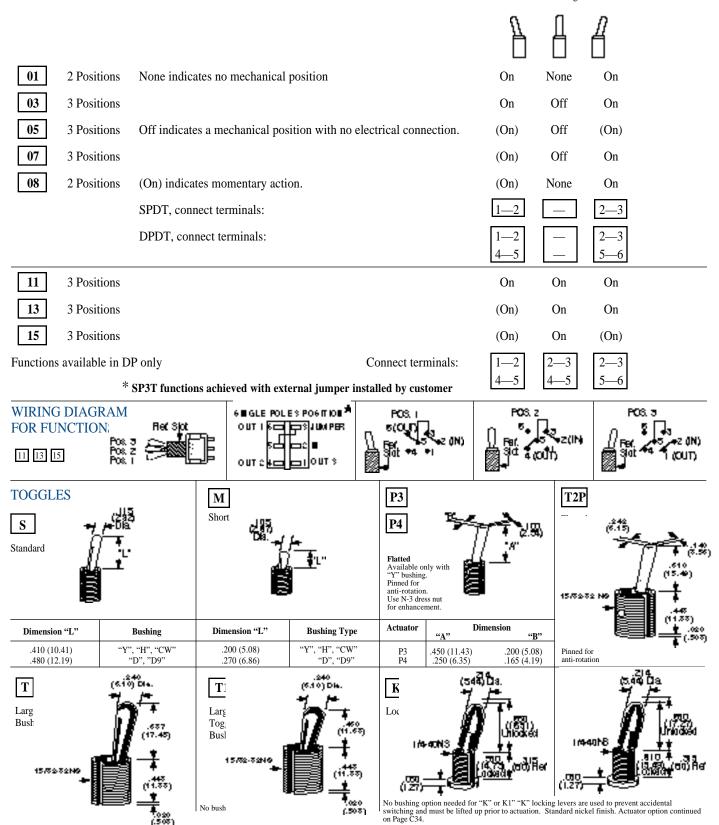
See pages M2-M4 for application specific indexing.



"A" Series Miniature Toggles The Gemini Series

FUNCTIONS

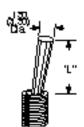
The following functions available in SP or DP.



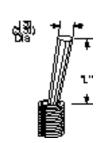
The Gemini Series "A" Series Miniature Toggles "Bushing /Terminal Options"

TOGGLES

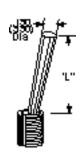












| Dimension "L" Bushing | Dimension "L" | Bushing Type | Dimension "L" | Bushing Type |
|---------------------------|---------------|---------------|---------------|---------------------|
| .840 (21.34) "Y", "H" "CW | .640 (16.26) | "Y", "H" "CW" | .550 (13.97) | "Y", "H", |
| .910 (23.4) "D", "D9" | .710 (18.03) | "D", "D9" | .620 (15.75) | "D", "D9" |

BUSHINGS



1/4-40 Thread .35" long, slotted (Standard)





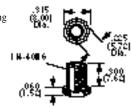






H

1/4-40 Thread Flanged, .30" long





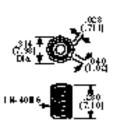


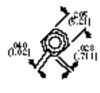
Used with A, AV2, V30 V80 & V90

terminations



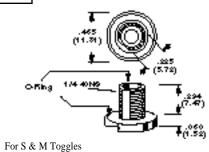
1/4-40 Thread .28" long, slotted







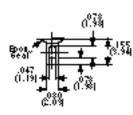




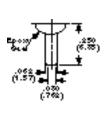
TERMINALS



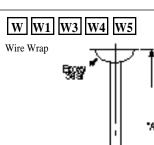
Wire Lug



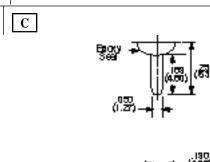


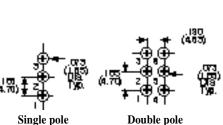


Mates with AMP 61454 or 60900.



| "A" |
|-------|
| .750 |
| .964 |
| .425 |
| 1.062 |
| 1.305 |
| |





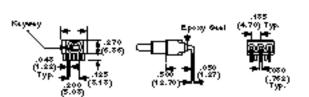


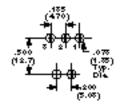
"A" Series Miniature Toggles The Gemini Series

TERMINALS



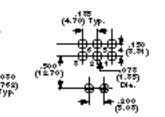
Right Angle Single Pole





Note: Terminal numbers viewed from top of P.C. boards.



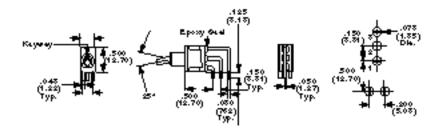


Right Angle Double Pole

Note: Terminal numbers viewed from top of P.C. boards.



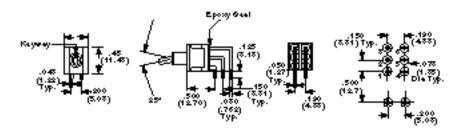
Vertical Right Angle Single Pole



Note: Terminal numbers viewed from top of P.C. boards.







Note: Terminal numbers viewed from top of P.C. boards.

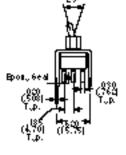
The Gemini Series "A" Series Miniature Toggles "5 Amp" Terminal Options

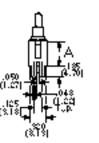
TERMINALS NOTE: Terminal numbers viewed from top of P.C. board

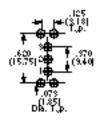




Vertical Support Bracket Single Pole

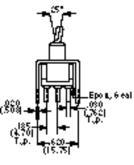


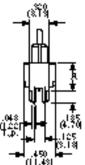


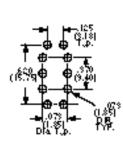


| Option Code | Dim."A" |
|-------------|---------------|
| V30 | .460 (11.68) |
| V40 | .630 (16.00) |
| V90 | 1.150 (29.21) |

Vertical Support Bracket **Double Pole**



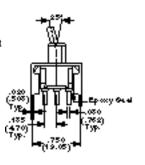


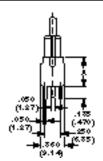


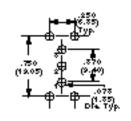
| Option Code | Dim."A" |
|--------------------|---------------|
| V30 | .460 (11.68) |
| V40 | .630 (16.00) |
| V90 | 1.150 (29.21) |

V60 V70 V80

Vertical Support Bracket Single Pole

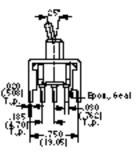


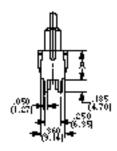


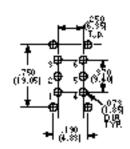


| Option Code | Dim."A" |
|-------------|--------------|
| V60 | .460 (11.68) |
| V70 | .630 (16.00) |
| V80 | .953 (24.71) |

Vertical Support Bracket **Double Pole**







| Option Code | Dim."A" |
|-------------|--------------|
| V60 | .460 (11.68) |
| V70 | .630 (16.00) |
| V80 | .953 (24.71) |

CONTACTS



CONTACTS: Copper alloy with gold plate, welded button.

TERMINALS: Brass with gold plate.

ELECTRICAL RATING: 0.4 VA @ 20 VAC/DC.

CONTACTS: Copper alloy with silver, welded button.

TERMINALS: Brass with tin/lead plate. ELECTRICAL RATING: 5 A @ 125 VAC, 2 A @ 250 VAC, 5 A @ 28 VDC.

UL/CSA RATING: 5A @ 125 VAC, 3A@ 250 VAC. (Specify "UL" option code)

CONTACTS: Copper alloy with gold plate over silver, welded button.

TERMINALS: Brass alloy, with gold plate.

ELECTRICAL RATING: O.4 VA @ 20 VAC/DC or 5 A @ 125 VAC, 2 A @ 250 VAC, 5 A @ 28 VDC.

Note: This contact option can be used for low-level or power switching. If level is above 0.4 VA @ 20 VAC/DC, the switch is rendered usable only for power switching due to arcremoval of gold plate.

UL/CSA RATING: 5A @ 125 VAC, 3A @ 250 VAC (Specify "UL" option code)



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G2VX G3VX PS83-121G A101MD9AB04 A101SD9AB04 A101SDCQ04 A103SD9AQ04 A107TZB04 A123P32YZQ A123S1YZG

A127S1YCQ 1-1825192-0 A131S1YZQ A201SCWZB04 A207SYCB04 A208J61ZQ0004 A221K12KAG A221S1YZQ A221T1TCQ

A232K12KZQ A232M1YCQ A323S1CWZQ A423S1CWZG-M8 A423S1YZQ 12149A-3V 12156AX408 12147AGKX679