

Toggle Switches, A Series, Part Number Matrix

"A" SERIES DESIGN FEATURES

- Toggle – Machined brass, heavy nickel plated.
- Bushing & Frame – Rigid one-piece die cast, copper flashed, heavy nickel plated.
- Fixed Contact – Welded construction.
- Terminal Seal – Epoxy sealing of terminals is standard.

MATERIAL SPECIFICATIONS:

ContactsGold/gold flash
 Silver/tin lead
 Case MaterialThermoset
 Terminal SealEpoxy

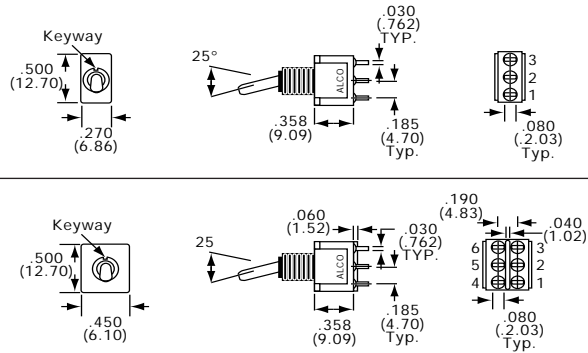
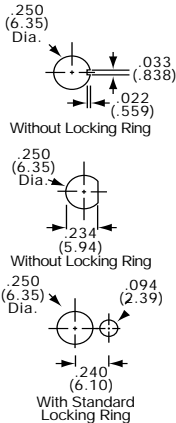
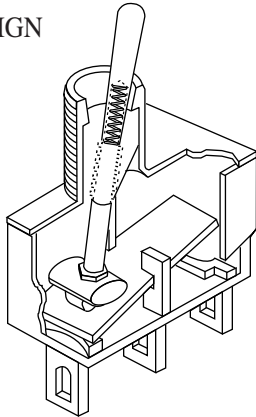
TYPICAL PERFORMANCE CHARACTERISTICS:

Contact RatingSilver: 2 A @ 250 VAC or 5 A @ 125 VAC
 Silver: 2 A @ 30 VDC
 Gold: 0.4 VA @ 20 VAC/DC max.
 Insulation Resistance1,000 Megohms min. @ 500 VDC.
 Dielectric Strength1,000 Volts RMS @ sea level initial
 Electrical LifeUp to 30,000 Cycles

ENVIRONMENTAL SPECIFICATIONS

Operating Temperature.....-4°F to + 185°F (-20°C to + 85°C)
 Storage Temperature.....-49°F to + 212°F (-45°C to + 100°C)
 Note: Hardware included with switch

DESIGN



PART NUMBERING

Model	Function	Toggle	Bushing	Terminal	Contact	K, K1: Cap Color	Option
A1 Single Pole	<p>S Bat. Long</p> <p>K Locking</p> <p>K1 Locking</p> <p>M Bat. Short</p> <p>P3 Flatted</p> <p>(with Y only)</p> <p>P4 Flatted</p> <p>(with Y only)</p> <p>T Large Toggle & Bushing (15/32)</p> <p>T1 Large Toggle & Bushing (15/32)</p> <p>T2P Large Flatted Toggle and Bushing (15/32)</p>	<p>Y 1/4-40 threaded, .35" long, slotted</p> <p>Y9 unthreaded, .35" long</p> <p>CW 1/4-40 threaded, .37" long, actuator & bushing flange environmental seals S & M Toggles only</p> <p>D 1/4-40 threaded, .28" long, slotted</p> <p>D9 Unthreaded, .28" long</p> <p>H 1/4-40 threaded, flanged, .30" long</p>	<p>Z Wire Lug</p> <p>A Right Angle</p> <p>AV2 Vertical Right Angle</p> <p>C Printed Circuit</p> <p>V30 V40 V90 Vertical Support</p> <p>W Wire Wrap</p> <p>Z3 Quick Connect</p>	<p>Q Silver</p> <p>B Gold</p> <p>G Gold over Silver</p>	<p>(Nickel Standard)</p> <p>0 Black</p> <p>2 Red</p>	<p>U.L.(Q or G contact only)</p>	
A2 Double Pole							
01 On-On							
03 On-Off-On							
05 (On)-Off-(On)							
07 On-Off-(On)							
08 On-(On)							
11 On-On-On							
13 On-On-(On)							
15 (On)-On-(On)							

Note: For surface mount termination, use the "TST" series, Page C7

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.

P Anti-Push-In/Anti rotate. Add letter after toggle S & M.

See page C23 for SP3T wiring diagram.

Gemini Series

Toggle Switches, A Series, Options

FUNCTIONS

The following functions available in SP or DP.



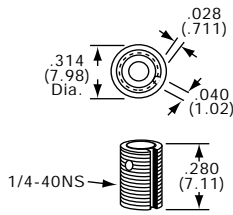
<p>TOGGLES</p> <p>S Standard</p>		<p>M Short</p>		<p>P3 P4</p>		<p>T2P Flatted</p>	
Dimension "L"	Bushing	Dimension "L"	Bushing Type	Actuator	Dimension "B"		
.410 (10.41)	"Y", "H", "CW"	.200 (5.08)	"Y", "H", "CW"	P3	.450 (11.43)	.200 (5.08)	
.480 (12.19)	"D", "D9"	.270 (6.86)	"D", "D9"	P4	.250 (6.35)	.165 (4.19)	
<p>T Large Toggle/ Bushing</p>		<p>T1 Large Toggle/ Bushing</p>		<p>K Locking</p>		<p>K1 Locking</p>	
<p>No bushing option needed for "T" or T1".</p>				<p>No bushing option needed for "K" or K1" "K" locking levers are used to prevent accidental switching and must be lifted up prior to actuation. Standard nickel finish.</p>			

Toggle Switches, A Series, Options

BUSHINGS

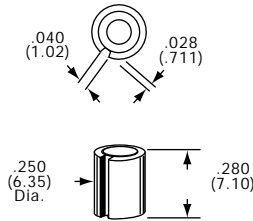
Y

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



D9

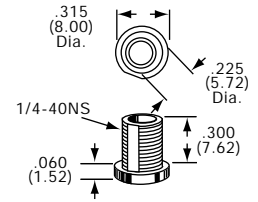
Unthreaded
.28" long



Used with
Z, C & W
terminations

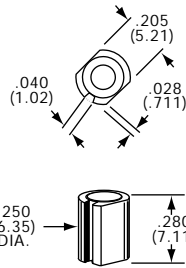
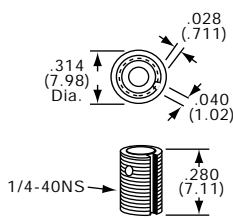
H

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



D

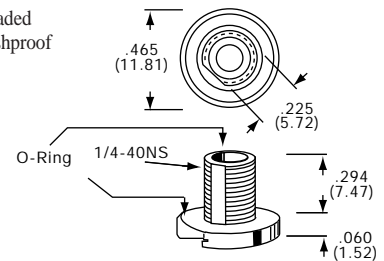
1/4-40 Thread
.28" long, slotted



Used with
A, AV2, V30
V80 & V90
terminations

CW

Threaded
Splashproof

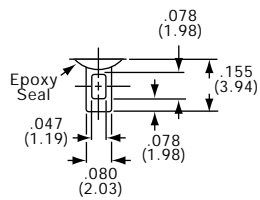


For S & M Toggles

TERMINALS

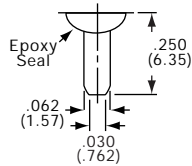
Z

Wire Lug



Z3

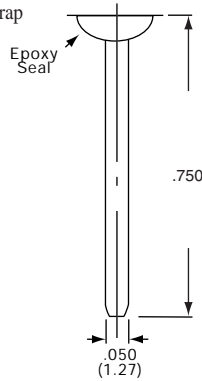
Quick Connect



Mates with Tyco
61454 or 60900.

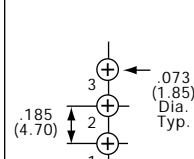
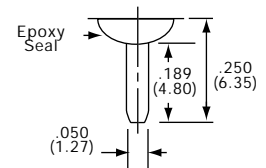
W

Wire Wrap

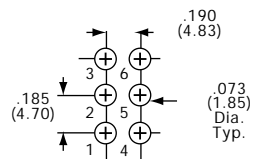


C

Printed Circuit



Single pole



Double pole

Toggle Switches, A Series, Options

TERMINALS

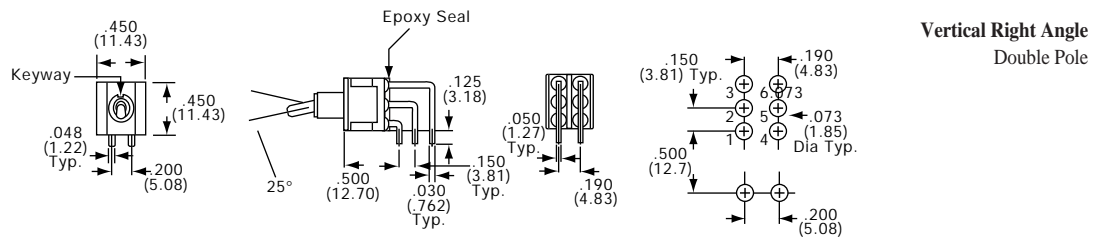


Right Angle
Single Pole



Gemini Series

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



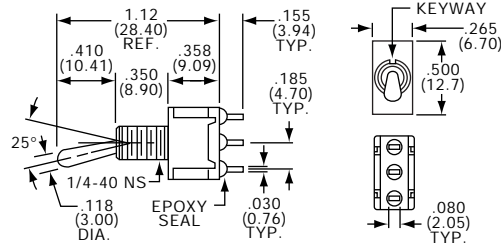
Vertical Right Angle
Double Pole

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

Toggle Switches, A Series, Vertical, Wire Lug, Long Bat Actuator

SPDT

Tyco Electronics	Alcoswitch	Type	Act. Code P.M5			
Silver Contacts						
5-1437554-0	A101SYZQ	SPDT	1	On	None	On
7-1437554-7	A103SYZQ	SPDT	5	On	Off	On
9-1437554-6	A105SYZQ	SPDT	5	(On)	Off	(On)
1437555-9	A107SYZQ	SPDT	5	On	Off	(On)
2-1437555-0	A108SYZQ	SPDT	1	On	None	(On)
Gold Contacts						
4-1437554-9	A101SYZB	SPDT	1	On	None	On
7-1437554-6	A103SYZB	SPDT	5	On	Off	On
9-1437554-5	A105SYZB	SPDT	5	(On)	Off	(On)
	A107SYZB	SPDT	5	On	Off	(On)

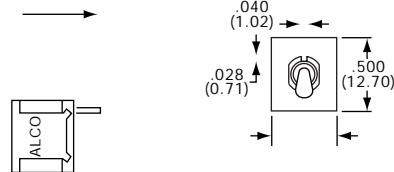


A101SYZQ

G
Gemini Series

DPDT

Tyco Electronics	Alcoswitch	Type	Act. Code P.M5			
Silver Contacts						
4-1437555-9	A201SYZQ	DPDT	2	On	None	On
6-1437555-2	A203SYZQ	DPDT	6	On	Off	On
7-1437555-0	A205SYZQ	DPDT	6	(On)	Off	(On)
7-1437555-6	A207SYZQ	DPDT	6	On	Off	(On)
8-1437555-5	A208SYZQ	DPDT	2	On	None	(On)
1437556-1	A211SYZQ	SP3T	11	On	On	On
1437556-4	A213SYZQ	SP3T	11	On	On	(On)
1437556-7	A215SYZQ	SP3T	11	(On)	On	(On)



A201SYZQ

Toggle Switches, A Series, PC Terminals, Long Bat Actuators

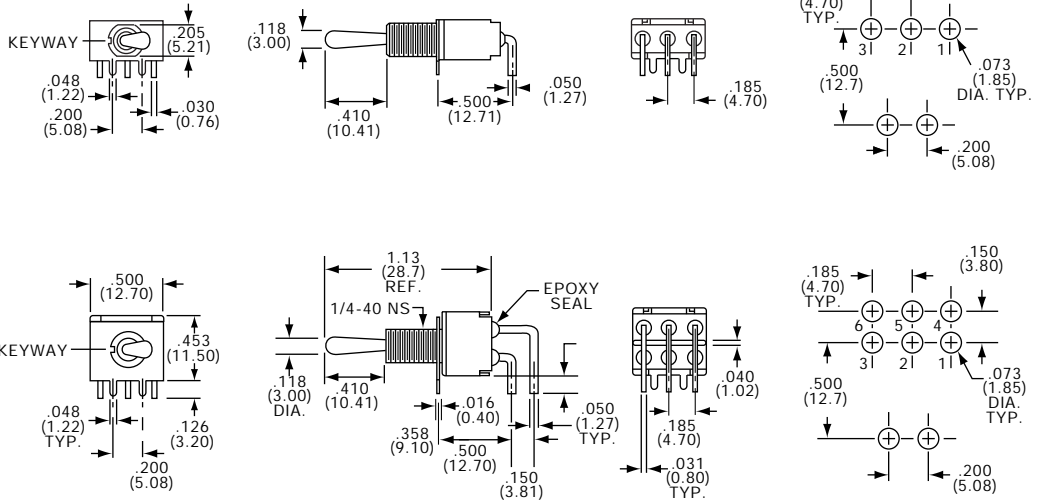
* Refer to Pages C22-C26 for Additional Options *

SEE PAGE C22 FOR PRODUCT SPECIFICATIONS

SPDT/DPDT



A101SYAB
Horizontal Actuation



Tyco Electronics	Alcoswitch	Type	Act. Code	P.M5	↘	↓	↙
Gold Contacts							
4-1437554-3	A101SYAB	SPDT	1		On	None	On
	A103SYAB	SPDT	5		On	Off	On
4-1437555-3	A201SYAB	DPDT	2		On	None	On
	A208SYAB	DPDT	2		On	None	(On)

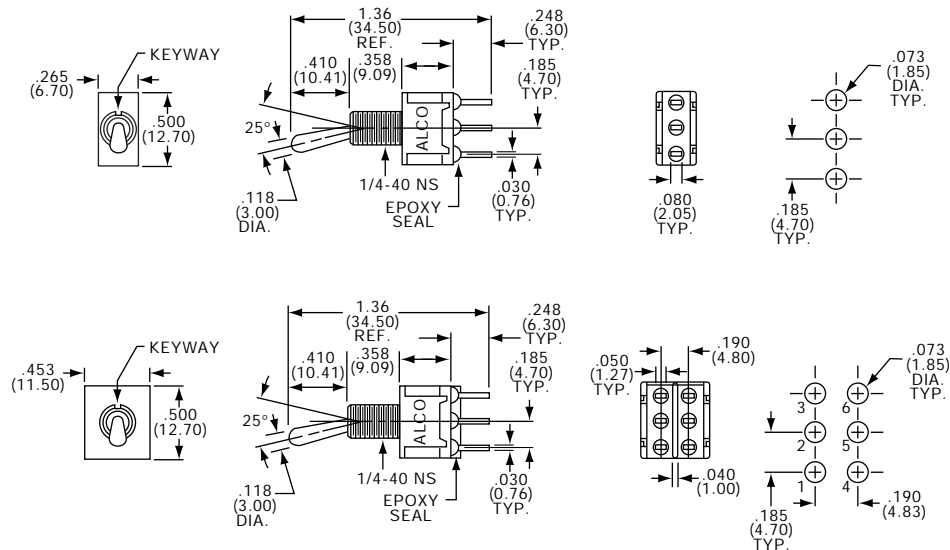
SPDT/DPDT



A101SYCB



A201SYCB

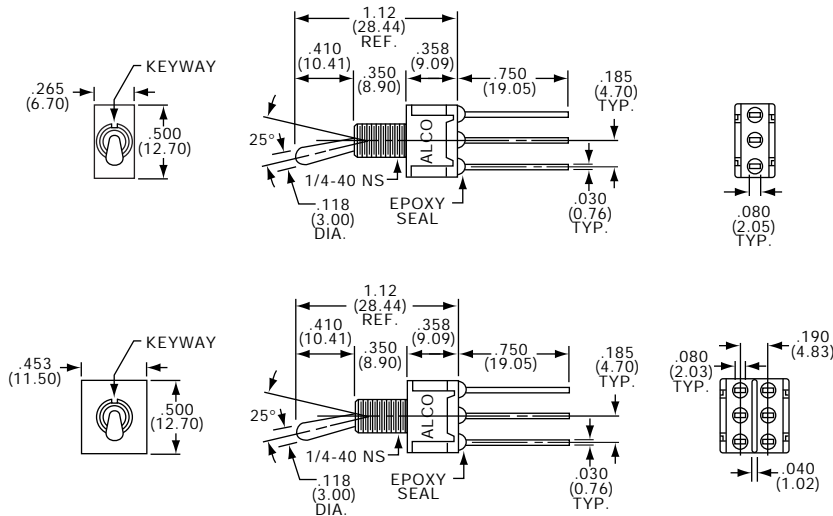


Tyco Electronics	Alcoswitch	Type	Act. Code	P.M5	↘	↓	↙
Gold Contacts							
4-1437554-5	A101SYCB	SPDT	1		On	None	On
7-1437554-2	A103SYCB	SPDT	5		On	Off	On
1-1437555-8	A108SYCB	SPDT	1		On	None	(On)
4-1437555-5	A201SYCB	DPDT	2		On	None	On
6-1437555-0	A203SYCB	DPDT	6		On	Off	On
8-1437555-3	A208SYCB	DPDT	2		On	None	(On)

Toggle Switches, A Series, Wire Wrap or Wire Lug, Long Bat Actuators

* Refer to Pages C22-C26 for Additional Options *

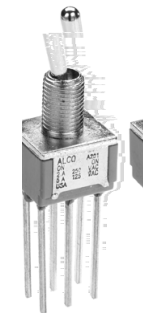
SEE PAGE C22 FOR PRODUCT SPECIFICATIONS



SPDT/DPDT

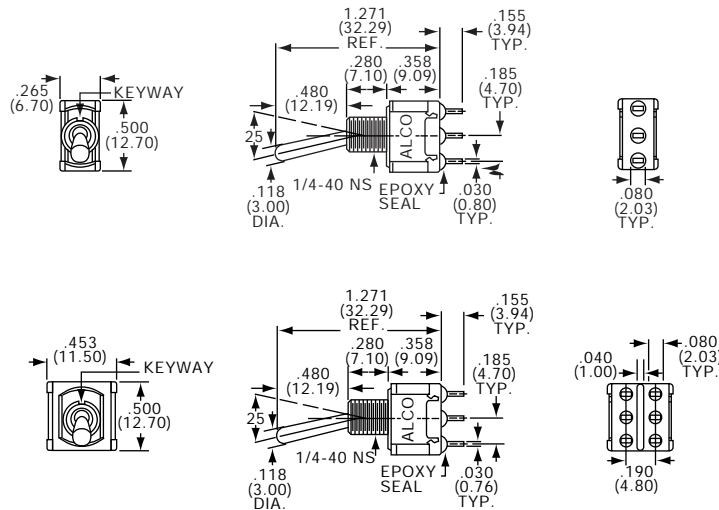


A101SYWQ



A201SYWQ

Tyco Electronics	Alcoswitch	Type	Act. Code	P.M5			
Silver Contacts							
4-1437554-8	A101SYWQ	SPDT	1	On	None	On	
7-1437554-5	A103SYWQ	SPDT	5	On	Off	On	
4-1437555-7	A201SYWQ	DPDT	2	On	None	On	
	A203SYWQ	DPDT	6	On	Off	On	



SPDT/DPDT



A101SDZQ



A201SDZQ

Tyco Electronics	Alcoswitch	Type	Act. Code	P.M5			
Silver Contacts							
4-1437554-0	A101SDZQ	SPDT	1	On	None	On	
6-1437554-9	A103SDZQ	SPDT	5	On	Off	On	
4-1437555-1	A201SDZQ	DPDT	2	On	None	On	
5-1437555-9	A203SDZQ	DPDT	6	On	Off	On	

Toggle Switches, A Series, PC Tail, Straight or Right Angle, Long Bat Actuator

* Refer to Pages C22-C26 for Additional Options *

SEE PAGE C22 FOR PRODUCT SPECIFICATIONS

SPDT

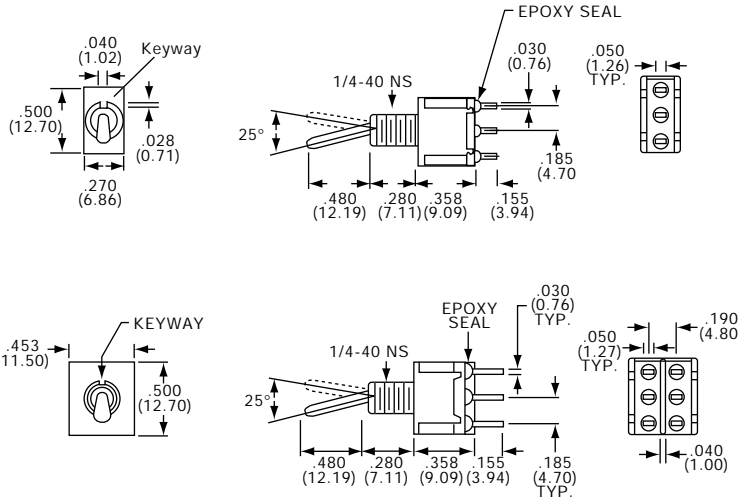


A101SDCQ

DPDT

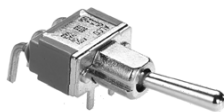


A201SDCQ



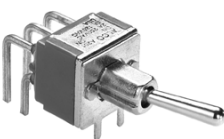
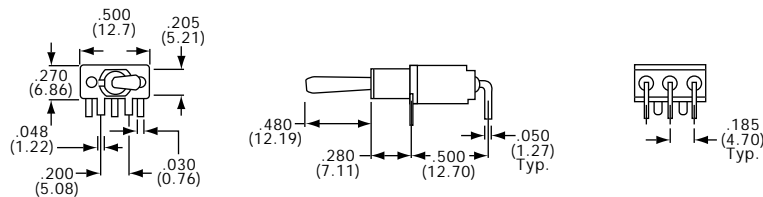
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Silver Contacts							
3-1437554-9	A101SDCQ	SPDT	1		On	None	On
6-1437554-8	A103SDCQ	SPDT	5		On	Off	On
1571670-1	A201SDCQ	DPDT	2		On	None	On
	A203SDCQ	DPDT	6		On	Off	On
	A208SDCQ	DPDT	2		On	None	(On)

SPDT/DPDT



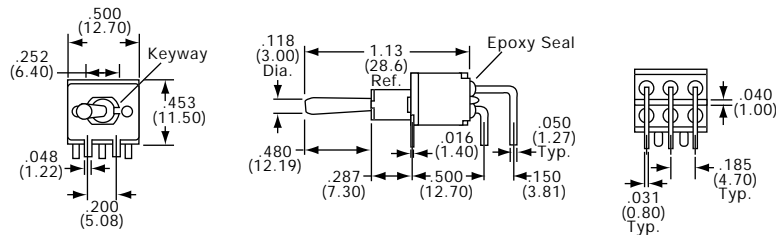
A101SD9AQ

Horizontal Actuation



A201SD9AQ

Horizontal Actuation

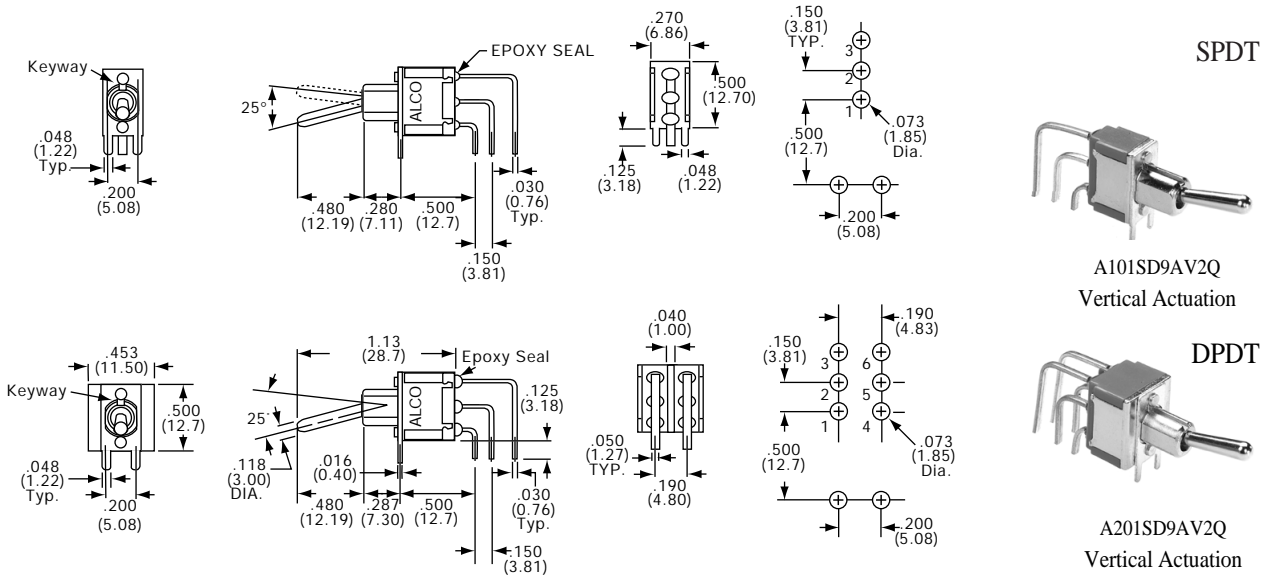


Tyco Electronics	Alcoswitch	Tyco Electronics	Alcoswitch	Type	Act. Code	P. M5	↖	↓	↗
Silver Contacts		Gold Contacts							
3-1437554-4	A101SD9AQ	3-1437554-3	A101SD9AB	SPDT	1		On	None	On
6-1437554-4	A103SD9AQ		A103SD9AB	SPDT	5		On	Off	On
1-1437555-6	A108SD9AQ			SPDT	1		On	None	(On)
3-1437555-8	A201SD9AQ		A201SD9AB	DPDT	2		On	None	On
8-1437555-1	A208SD9AQ		A208SD9AB	DPDT	2		On	None	(On)

Toggle Switches, A Series, Vertical, Right Angle, Long Bat Actuator

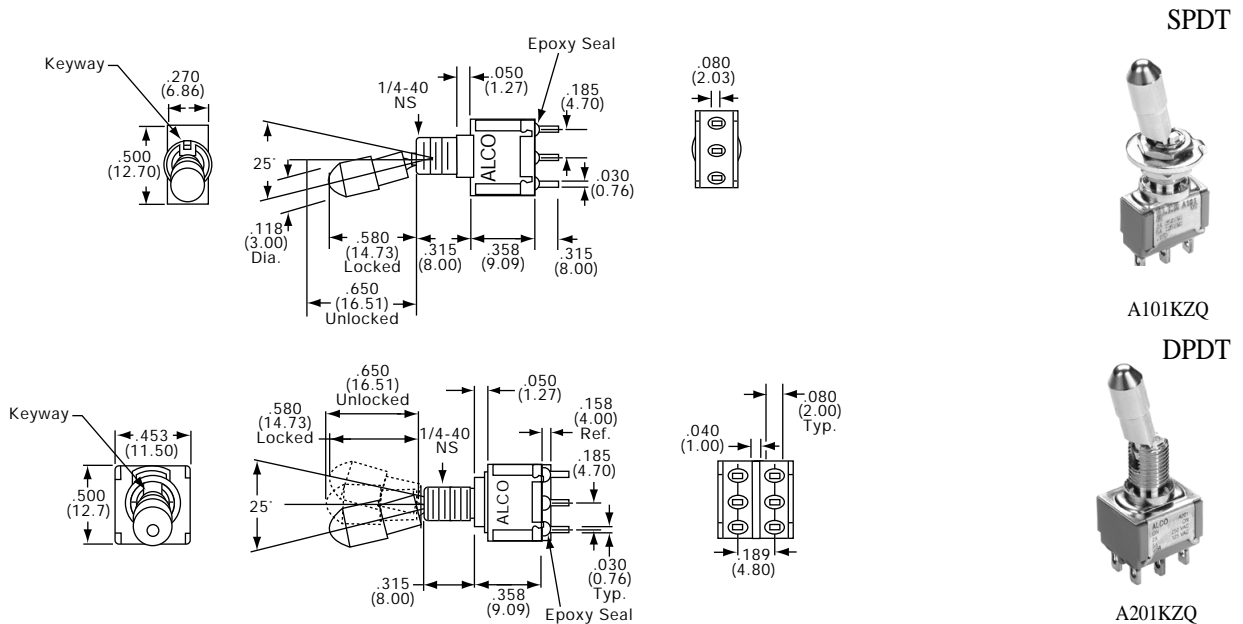
* Refer to Pages C22-C26 for Additional Options *

SEE PAGE C22 FOR PRODUCT SPECIFICATIONS



Tyco Electronics	Alcoswitch	Type	Act. Code	P.M5				Tyco Electronics	Alcoswitch	Type	Act. Code	P.M5			
Silver Contacts															
3-1437554-6	A101SD9AV2Q	SPDT	1		On	None	On	3-1437555-9	A201SD9AV2Q	DPDT	2		On	None	On
6-1437554-6	A103SD9AV2Q	SPDT	5		On	Off	On	5-1437555-8	A203SD9AV2Q	DPDT	6		On	Off	On
								8-1437555-2	A208SD9AV2Q	DPDT	2		On	None	(On)

Toggle Switches, A Series, Wire Lug, Locking Toggle



Tyco Electronics	Alcoswitch	Type	Act. Code	P.M5				Tyco Electronics	Alcoswitch	Tyco Electronics	Alcoswitch	Type	Act. Code	P.M5				
Silver Contacts																		
1437554-9	A101KZQ	SPDT	1		On	None	On	Gold Contacts		Silver Contacts		2-1437555-5	A201KZQ	DPDT	2	On	None	On
5-1437554-8	A103KZQ	SPDT	5		On	Off	On	A203KZB	A203KZB	5-1437555-3	A203KZQ	DPDT	6		On	Off	On	
								6-1437555-5	A205KZB		A205KZQ	DPDT	6		(On)	Off	(On)	
								8-1437555-8	A211KZB		A211KZQ	SP3T	11		On	On	On	

* Refer to Pages C22-C26 for Additional Options *

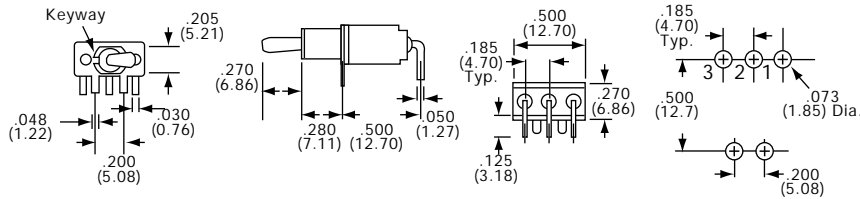
Toggle Switches, A Series, Right Angle, Short Bat Actuators

SEE PAGE C22 FOR PRODUCT SPECIFICATIONS

SPDT



A101MD9AQ
Horizontal Actuation

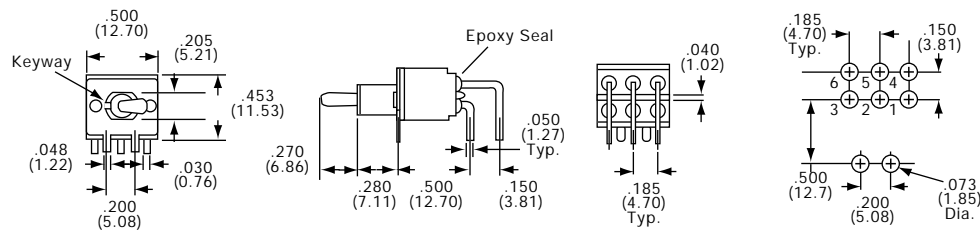


Tyco Electronics	Alcoswitch	Tyco Electronics	Alcoswitch	Type	Act. Code	P. M5	↖	↓	↗
Silver Contacts		Gold Contacts							
1-1437554-6	A101MD9AQ	1-1437554-4	A101MD9AB	SPDT	1		On	None	On
6-1437554-1	A103MD9AQ	5-1437554-9	A103MD9AB	SPDT	5		On	Off	On
	A108MD9AQ	1-1437555-2	A108MD9AB	SPDT	1		On	None	(On)

DPDT



A201MD9AQ
Horizontal Actuation

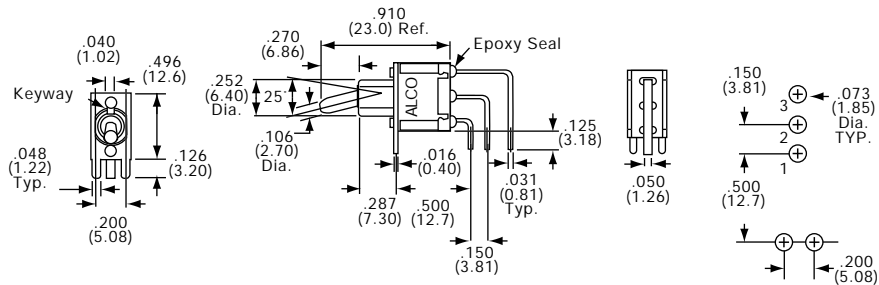


Tyco Electronics	Alcoswitch	Tyco Electronics	Alcoswitch	Type	Act. Code	P. M5	↖	↓	↗
Silver Contacts		Gold Contacts							
2-1437555-8	A201MD9AQ	2-1437555-7	A201MD9AB	DPDT	2		On	None	On
		5-1437555-4	A203MD9AB	DPDT	6		On	Off	On

SPDT

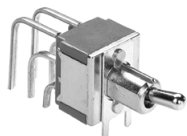


A101MD9AV2Q
Vertical Actuation

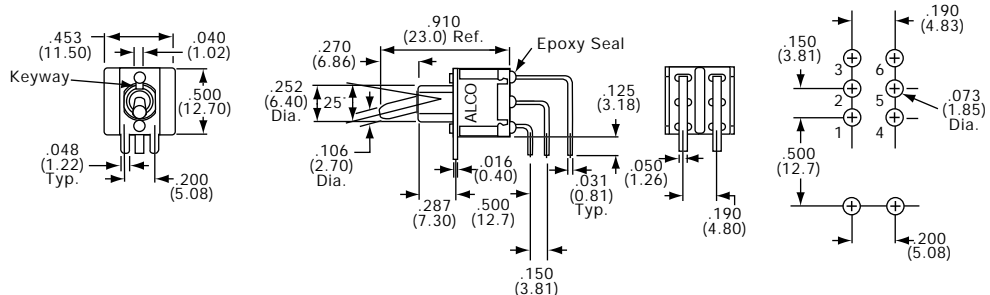


Tyco Electronics	Alcoswitch	Tyco Electronics	Alcoswitch	Type	Act. Code	P. M5	↖	↓	↗
Silver Contacts		Gold Contacts							
1-1437554-9	A101MD9AV2Q	1-1437554-7	A101MD9AV2B	SPDT	1		On	None	On
	A103MD9AV2Q	6-1437554-2	A103MD9AV2B	SPDT	5		On	Off	On
	A108MD9AV2Q			SPDT	1		On	None	(On)

DPDT



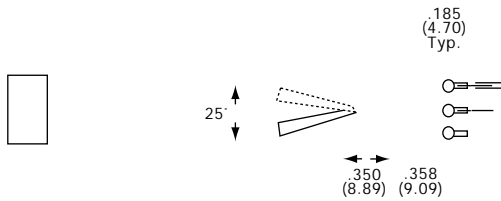
A201MD9AV2AQ
Vertical Actuation



Tyco Electronics	Alcoswitch	Tyco Electronics	Alcoswitch	Type	Act. Code	P. M5	↖	↓	↗
Silver Contacts		Gold Contacts							
3-1437555-0	A201MD9AV2Q	2-1437555-9	A201MD9AV2B	DPDT	2		On	None	On
	A203MD9AV2Q		A203MD9AV2B	DPDT	6		On	Off	On
	A208MD9AV2Q		A208MD9AV2B	DPDT	2		On	None	(On)

Toggle Switches, A Series, Vertical, Wire Lug, Flat or Long Bat Actuator

SEE PAGE C22 FOR PRODUCT SPECIFICATIONS

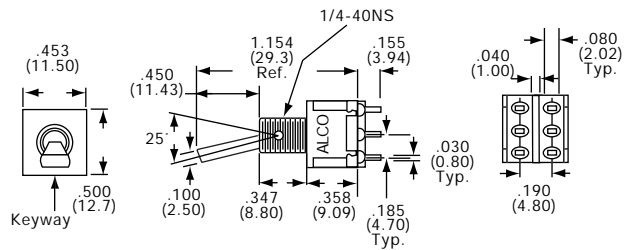


SPDT



A101P3YZQ

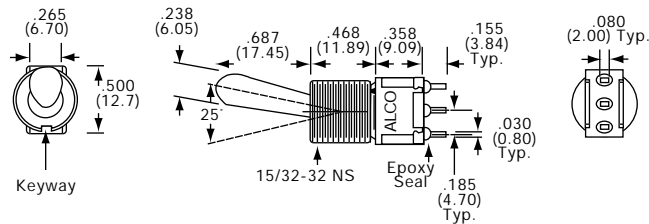
Tyco Electronics	Alcoswitch	Type	Act. Code	P.M5
Silver Contacts				
2-1437554-9	A101P3YZQ	SPDT	1	On None On
6-1437554-3	A103P3YZQ	SPDT	5	On Off On
8-1437554-7	A105P3YZQ	SPDT	5	(On) Off (On)
1437555-5	A107P3YZQ	SPDT	5	On Off (On)
1-1437555-5	A108P3YZQ	SPDT	1	On None (On)



DPDT



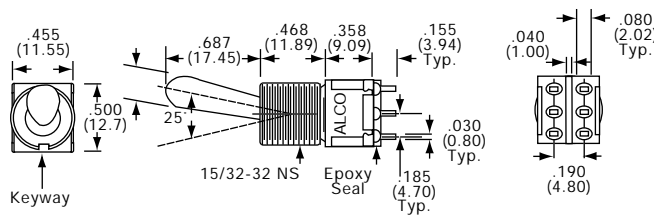
A201P3YZQ



SPDT



A101TZQ



DPDT



A201TZQ

C
Gemini Series

Toggle Switches, A Series, Wire Lug, 15/32 Bushing, Short Bat Actuator

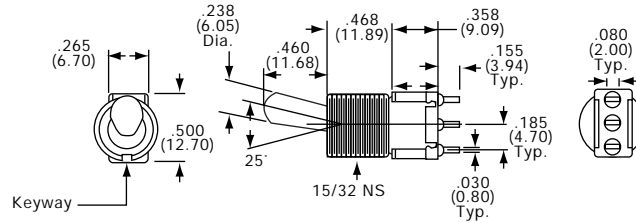
* Refer to Pages C22-C26 for Additional Options *

SEE PAGE C22 FOR PRODUCT SPECIFICATIONS

SPDT



A103T1ZQ

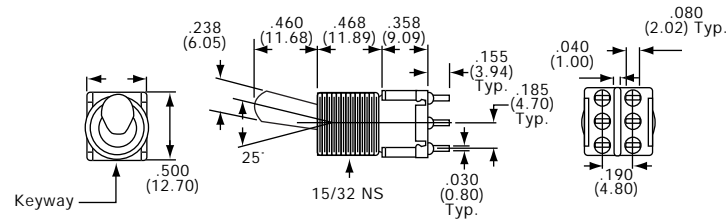


Tyco Electronics	Alcoswitch	Type	Act. Code	P.M5	↘	↓	↙
Silver Contacts							
5-1437554-4	A101T1ZQ	SPDT	1		On	None	On
7-1437554-9	A103T1ZQ	SPDT	5		On	Off	On
9-1437554-8	A105T1ZQ	SPDT	5		(On)	Off	(On)
	A108T1ZQ	SPDT	1		On	None	(On)

DPDT



A201T1ZQ



Tyco Electronics	Alcoswitch	Type	Act. Code	P.M5	↘	↓	↙
Silver Contacts							
5-1437555-0	A201T1ZQ	DPDT	2		On	None	On
6-1437555-3	A203T1ZQ	DPDT	6		On	Off	On
7-1437555-1	A205T1ZQ	DPDT	6		(On)	Off	(On)
7-1437555-7	A207T1ZQ	DPDT	6		On	Off	(On)
8-1437555-6	A208T1ZQ	DPDT	2		On	None	(On)
1437556-2	A211T1ZQ	SP3T	11		On	On	On