C



# 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:

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

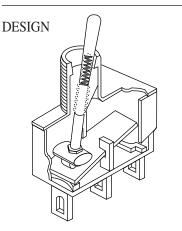
# TYPICAL PERFORMANCE CHARACTERISTICS:

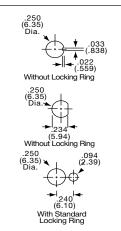
Contact Rating ......Silver: 2 A @ 250 VAC or 5 A @ 125 VAC Silver: 2 A @ 30 VDC Gold: 0.4 VA @ 20 VAC/DC max. Dielectric Strength ......1,000 Volts RMS @ sea level initial Electrical Life ......Up to 30,000 Cycles

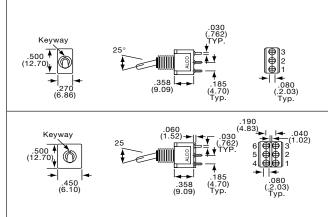
#### ENVIRONMENTAL SPECIFICATIONS

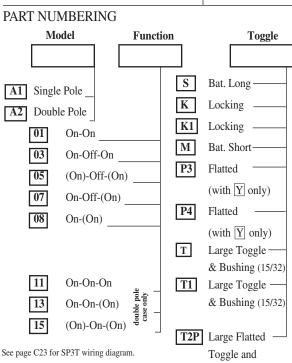
Operating Temperature.....- $4^{\circ}$ F to +  $185^{\circ}$ F ( $-20^{\circ}$ C to +  $85^{\circ}$ C) Storage Temperature.....49°F to +212°F (-45°C to +100°C)

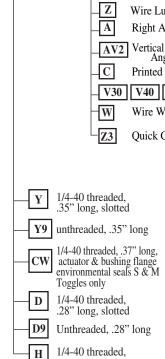
Note: Hardware included with switch





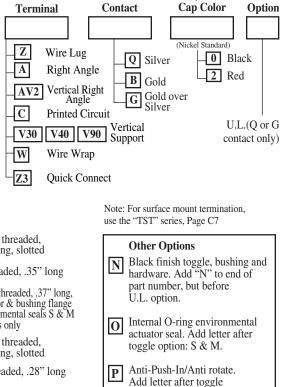






flanged, .30" long

Bushing



S & M.

Bushing (15/32)

K, K1:



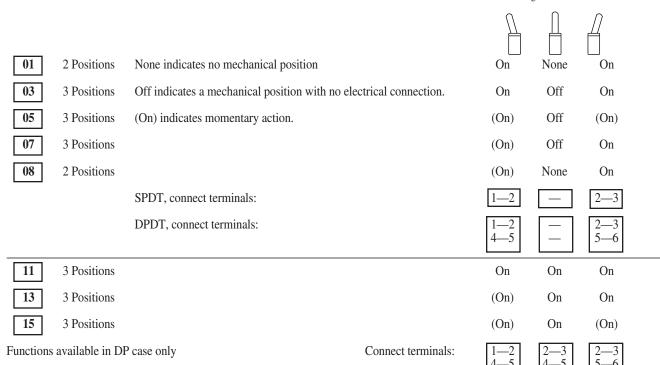
Gemini Series

# Toggle Switches, A Series, Options

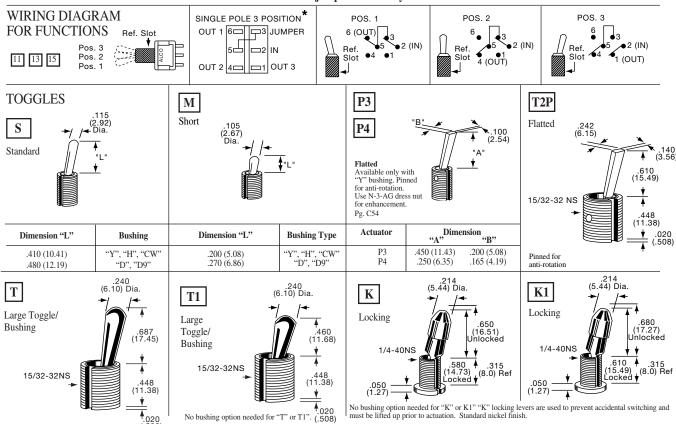
#### **FUNCTIONS**

Alcoswitch

The following functions available in SP or DP.



# ${}^{*}$ SP3T functions achieved with external jumper installed by customer



Catalog 1308390 Issued 9-04

www.tycoelectronics.com

Dimensions are in inches and millimeters unless otherwise specified. Values in parentheses or brackets are metric equivalents.

Dimensions are shown for reference purposes only. Specifications subject to change.

USA: 1-800-522-6752 Canada: 1-905-470-4425 Mexico: 01-800-733-8926 C. America: 52-55-5-729-0425 South America: 55-11-3611-1514 Hong Kong: 852-2735-1628 Japan: 81-44-844-8013 UK: 44-141-810-8967 C

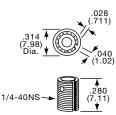


# Toggle Switches, A Series, Options

### **BUSHINGS**



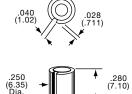
1/4-40 Thread .35" long, slotted (Standard)



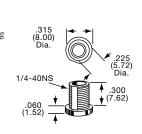


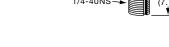
Unthreaded .28" long

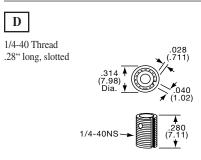
Used with **Z**, C & W



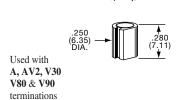
Н 1/4-40 Thread Flanged, .30" long

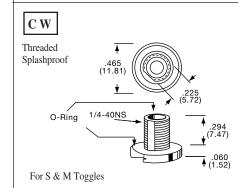






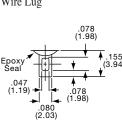


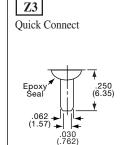




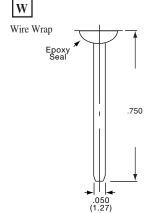
# **TERMINALS**

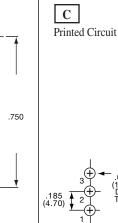




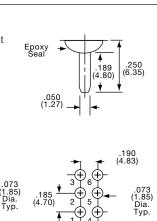


Mates with Tyco 61454 or 60900.





Single pole



Double pole

C24

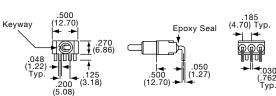
www.tycoelectronics.com

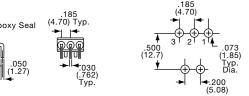
# **Toggle Switches, A Series, Options**

### **TERMINALS**



Right Angle Single Pole

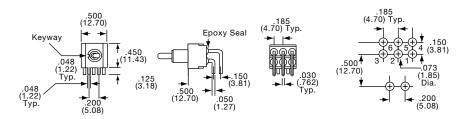




Note: Terminal numbers viewed from top of P.C. boards.



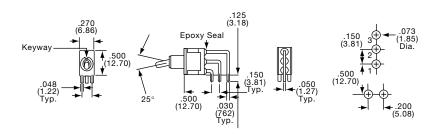
Right Angle Double Pole



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



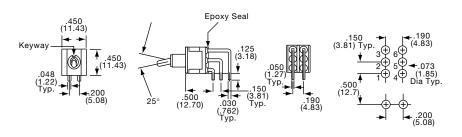
Vertical Right Angle Single Pole



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

AV2

Vertical Right Angle Double Pole



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

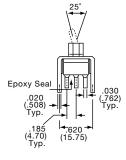


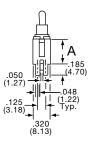
# Toggle Switches, A Series, Options

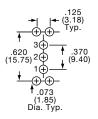
# TERMINALS NOTE: Terminal numbers viewed from top of P.C. board

V30 V40 V90

Vertical Support Bracket Single Pole

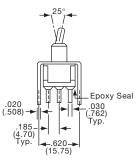


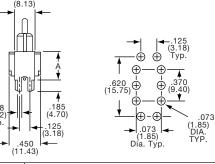




Option Code	Dim."A"
V30	.460 (11.68)
V40	.630 (16.00)
V90	1.150 (29.21)

Vertical Support Bracket Double Pole





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

#### **CONTACTS**

B 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, 2 A @ 30 VDC.

UL/CSA RATING: 5A @ 125 VAC, 3A@ 250 VAC. (Specify "UL" option code) G CONTACTS: Copper alloy with gold plate over silver, welded button.

TERMINALS: Brass alloy, with gold plate.

ELECTRICAL RATING: 0.4 VA @ 20 VAC/DC or 5 A @ 125 VAC, 2 A @ 250 VAC, 2 A @ 30 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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# Gemini Series

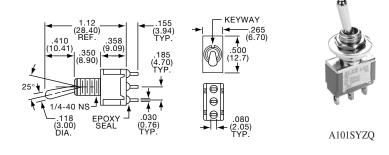
#### \* Refer to Pages C22-C26 for Additional Options \*

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

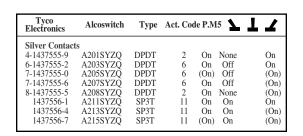
### SEE PAGE C22 FOR PRODUCT SPECIFICATIONS

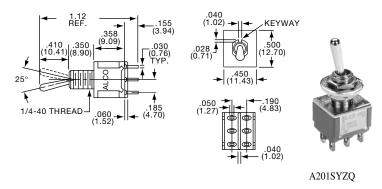
**SPDT** 

Tyco Electronics	Alcoswitch	Туре	Act. Code P.M5	717
Silver Contacts	S			
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)



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

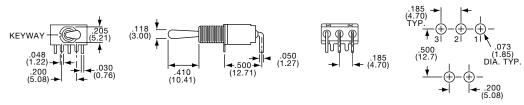
\* Refer to Pages C22-C26 for Additional Options \*

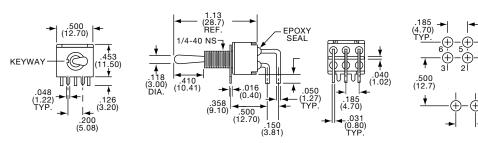
# SEE PAGE C22 FOR PRODUCT SPECIFICATIONS

### SPDT/DPDT



A101SYAB Horizontal Actuation



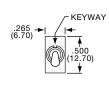


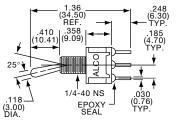
Tyco Electronics	Alcoswitch	Type	Act. Code P.M5	717
<b>Gold Contacts</b>				
4-1437554-3	A101SYAB	SPDT	1	On None On
	A103SYAB	SPDT	5	On Off On
4-1437555-3	A201SYAB	DPDT	2	On None On
	A208SYAB	DPDT	2	On None (On)

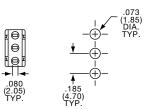
# SPDT/DPDT





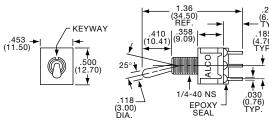






A101SYCB





.050 (1.27) TYP. (4.80 TYP. (4.80 TYP. (4.80 TYP. (4.80 TYP. (4.80 TYP. (4.80		073 (1.85) DIA. TYP. 6 + 5 4 
	IIF.	

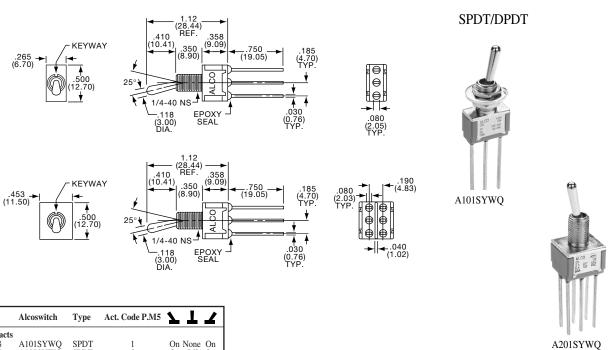
Tyco Electronics	Alcoswitch	Type	Act. Code P.M5	<b>7 T 7</b>
Gold Contacts				
4-1437554-5	A101SYCB	SPDT	1	On None On
7-1437554-2	A103SYCB	SPDT	5	On Off On
1-1437555-8	A108SYCB	SPDT	1	On None (On)
4-1437555-5	A201SYCB	DPDT	2	On None On
6-1437555-0	A203SYCB	DPDT	6	On Off On
8-1437555-3	A208SYCB	DPDT	2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

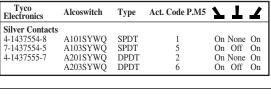


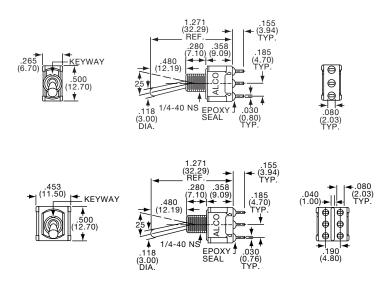
# Toggle Switches, A Series, Wire Wrap or Wire Lug, Long Bat Actuators

\* Refer to Pages C22-C26 for Additional Options \*

# SEE PAGE C22 FOR PRODUCT SPECIFICATIONS







Tyco Electronics	Alcoswitch	Type	Act. Code P.M5	<b>7</b> T	_
Silver Contacts 4-1437554-0 6-1437554-9 4-1437555-1 5-1437555-9	A101SDZQ A103SDZQ A201SDZQ A203SDZQ	SPDT SPDT DPDT DPDT	1 5 2 6	On None On Off On None On Off	On

### SPDT/DPDT



A101SDZQ



A201SDZQ

tyco

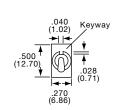
\* Refer to Pages C22-C26 for Additional Options \*

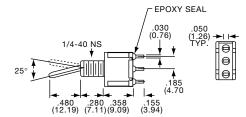
# Toggle Switches, A Series, PC Tail, Straight or Right Angle, Long Bat Actuator

### SEE PAGE C22 FOR PRODUCT SPECIFICATIONS

### **SPDT**







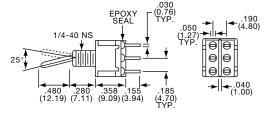
A101SDCQ

**DPDT** 



A201SDCQ

KEYWAY .453 (11.50)



Tyco Electronics	Alcoswitch	Type	Act. Code P.M5	7 T 7
Silver Contacts	1			
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)

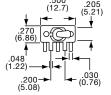
## SPDT/DPDT



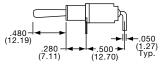
A101SD9AQ Horizontal Actuation

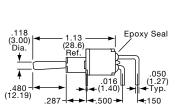


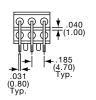
A201SD9AQ Horizontal Actuation



.453 (11.50)







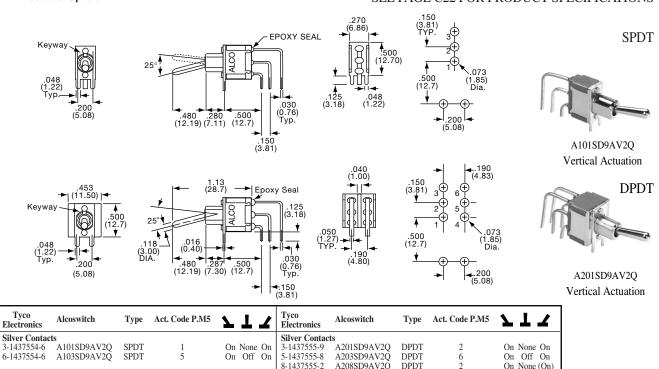
Tyco Electronics	Alcoswitch	Tyco Electronics	Alcoswitch	Type	Act. Code P. M5	7 T 7
Silver Contacts		Gold Contacts				
3-1437554-4	A101SD9AQ	3-1437554-3	A101SD9AB	SPDT	1	On None On
6-1437554-4	A103SD9AQ		A103SD9AB	SPDT	5	On Off On
1-1437555-6	A108SD9AQ			SPDT	1	On None (On)
3-1437555-8	A201SD9AQ		A201SD9AB	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

On None (On)

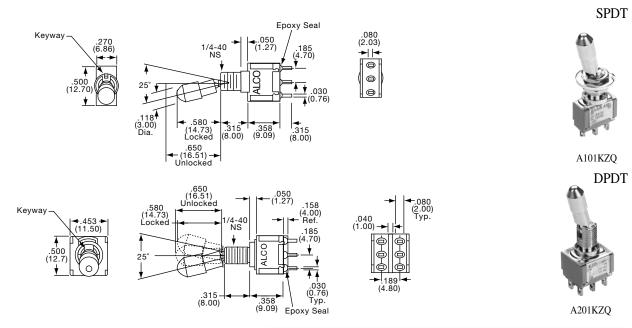


# Toggle Switches, A Series, Wire Lug, Locking Toggle

A208SD9AV2Q

DPDT

8-1437555-2



Tyco Electronics	Alcoswitch	Type	Act. Code P. M5	7 T 7	Tyco Electronics	Alcoswitch	Tyco Electronics	Alcoswitch	Type	Act. Code P. M5	<b>L</b> L .
Silver Contacts 1437554-9 5-1437554-8	A101KZQ A103KZQ	SPDT SPDT	1 5	On None On On Off On		A201KZB A203KZB A205KZB A211KZB	Silver Contact 2-1437555-5 5-1437555-3	A201KZQ A203KZQ A205KZQ A211KZQ	DPDT DPDT DPDT SP3T	2 6 6 11	On None On Off (On) Off ( On On

Catalog 1308390 Issued 9-04

On On (On)



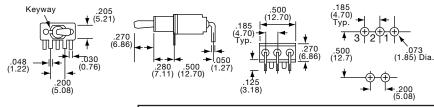
\* Refer to Pages C22-C26 for Additional Options \*

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

# SEE PAGE C22 FOR PRODUCT SPECIFICATIONS



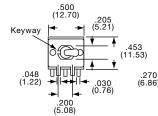


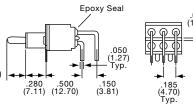


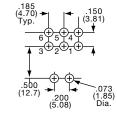
A101MD9AQ Horizontal Actuation

Tyco Electronics	Alcoswitch	Tyco Electronics	Alcoswitch	Type	Act. Code P. M5	712
Silver Contac	ets	Gold Contac	ts			
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)









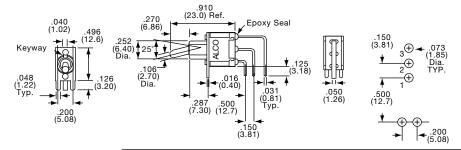
A201MD9AQ Horizontal Actuation

Tyco Electronics	Alcoswitch	Tyco Electronics	Alcoswitch	Type	Act. Code P. M5	714
Silver Contac		Gold Contac		DDDM	2	
2-1437555-8	A201MD9AQ	2-1437555-7 5-1437555-4	A201MD9AB A203MD9AB	DPDT DPDT	6	On None On On Off On

# **SPDT**



A101MD9AV2Q Vertical Actuation

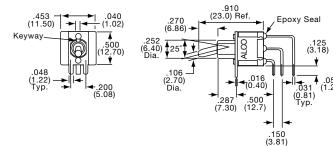


ronics	Alcoswitch	Tyco Electronics	Alcoswitch	Type	Act. Code P. M5	717
	A101MD9AV2Q	6-1437554-2	A101MD9AV2B A103MD9AV2B		1 5 1	On None On On Off On On None(On)

#### **DPDT**



A201MD9AV2AQ Vertical Actuation



Tyco Electronics Alcosy	vitch Tyco Electronics	Alcoswitch	Type	Act. Code P. M5	7 T 7
A203N	Gold Contac MD9AV2Q 2-1437555-9 MD9AV2Q MD9AV2Q		DPDT	2 6 2	On None On On Off On On None(On)

.190 (4.80) .190 (4.83)

4.200 (5.08)

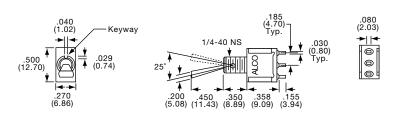
**Gemini Series** 

Gemini Series

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

\* Refer to Pages C22-C26 for Additional Options \*

# SEE PAGE C22 FOR PRODUCT SPECIFICATIONS



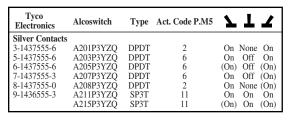


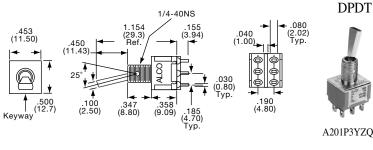
**SPDT** 

Alcoswitch

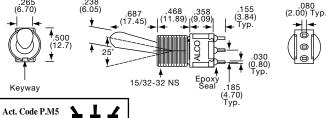
A101P3YZQ

Tyco Electronics	Alcoswitch	Type	Act. Code P.M5	<b>71</b>
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)



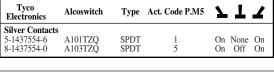


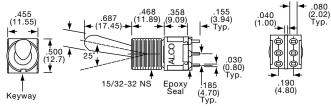






A101TZQ





Tyco Electronics	Alcoswitch	Type	Act. Code P.M5	717
Silver Contacts	A201TZQ	DPDT	2	On None On
5-1437555-2	A203TZQ	DPDT	6	On Off On
6-1437555-4	A211TZQ	SP3T	11	On On On

DPDT



A201TZQ

South America: 55-11-3611-1514 Hong Kong: 852-2735-1628 Japan: 81-44-844-8013 UK: 44-141-810-8967

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

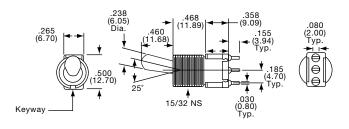
\* Refer to Pages C22-C26 for Additional Options \*

### SEE PAGE C22 FOR PRODUCT SPECIFICATIONS

### **SPDT**



A103T1ZQ

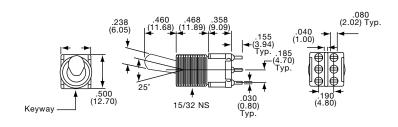


Tyco Electronics	Alcoswitch	Type	Act. Code P.M5	714
Silver Contacts	A101T1ZQ	SPDT	1	On None On
5-1437554-4	A103T1ZQ	SPDT	5	On Off On
7-1437554-9	A105T1ZQ	SPDT	5	(On) Off (On)
9-1437554-8	A108T1ZQ	SPDT	1	On None (On)

# **DPDT**



A201T1ZQ



Tyco Electronics	Alcoswitch	Type	Act. Code P.M5	717
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

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