



Quick Reference Guide Gemini Series Switches

The TE Connectivity extensive Gemini A and Gemini AE Series offer one and two poles with multi-circuit configurations, including: momentary function, locking toggle to avoid unwanted switching as well as bat and flat toggles in different lengths. The Gemini AE Series meets IP67 requirements. Terminals are epoxy sealed to prevent the entry of flux, solvent and other contaminants. Gemini A & Gemini AE Switches are available with solder lug, PC, wire wrap, vertical, bracketed and angle-mount PC terminal choices.

The Gemini series offers engineers many different combinations of toggle or rocker switches for their applications.

FEATURES

Toggles

- Gold, gold over silver or silver contacts
- Epoxy sealed terminals
- Stainless steel frame with brass tin plated solder support
- Hardware included
- Boot seals available
- AE meets IP67 requirements

Rockers

- Multiple actuator colors available
- G and Q contacts UL recognition
- AE meets IP67 requirements

APPLICATIONS

These devices are well suited for designs requiring human interface via toggle or rocker-style switch, including:

- Industrial equipment
- Audio-visual equipment
- Outdoor concert and lighting equipment
- Medical
- Instrumentation
- Communication equipment

Typical Performance Characteristics

Contact Configuration : 1, 2, 3, and 4 pole
Contact Timing : Break before make
Contact Rating Max. :
Gold : 0.4VA @20V AC or DC
Gold over Silver : 5A @ 125VAC or 28VDC resistive
0.4VA @ 20V AC or DC or
2A @ 250VAC resistive
Silver : 5A @ 125VAC or 28VDC resistive
Electrical Life : 6000 cycles
Contact Resistance, Initial : 10 mOhms max. at 2-4 VDC 100 mA
Insulation Resistance : 1,000 MOhms
Dielectric Strength : 1,000 Vrms @ sea level
Actuator Travel : 22° for D and E function
18° for F and G function

Environmental Specification

Operating Temperature : -30 to +85°C
Storage Temperature : -30 to +85°C
Solder Heat Resistance : Wave solder capable to 265°C
Terminal Seal : Single pole: epoxy

Material Specifications

Contacts :
Contacts B : Copper alloy finish gold over nickel
Contacts G : Copper alloy finish gold over silver
Contacts Q : Copper alloy finish silver
Actuator : Brass alloy finish nickel
Terminals :
Contacts B : Copper alloy finish gold over nickel
Contacts G : Copper alloy finish gold over silver
Contacts Q : Copper alloy finish silver
Case : Thermoplastic
Bushing : Brass alloy finish nickel
Internal Actuator : Phenolic
Spring : Music wire
Support Bracket : Brass tin plated
Seal : Epoxy

Gemini A

Flat Toggle

Wire Lug

Vertical Right Angle

Standard Paddle

Snap-in

Beveled Frame

Gemini AE

Short Toggle

IP67

Printed Circuit

Standard Toggle

Right Angle

Large Rocker

Vertical Support

Color code:

Terminal Actuator Ingress Protection Other Features

Gemini A Toggle Product Key

Type				Typical Product Key				A	1	01	P3		Z	Q	04		
A Gemini A Series Toggles																	
Number of Poles																	
1	Single pole	2	Double pole														
Function																	
Single and double pole				Double pole only													
01	ON-ON	07	ON-OFF-(ON)	11	ON-ON-ON												
03	ON-OFF-ON	08	ON-(ON)	13	ON-ON-(ON)												
05	(ON)-OFF-(ON)			15	(ON)-ON-(ON)												
Toggles																	
S	Bat long	M	Bat short	T	Large toggle & bushing (15/32)	L1	Lever										
K	Locking	P3	Flatted (with bushing code Y only)	T1	Large toggle & bushing (15/32)	L2	Lever										
K1	Locking			L	Lever												
Bushing																	
blank	Toggles K1 &/ P3: 1/4-40 threaded .35 (8.9) long Toggles K, T, T1: unthreaded .28 (7.1) long			D	1/4-40 threaded .28 (7.1) long	Y	1/4-40 threaded .35 (8.9) long										
				D9	unthreaded .28 (7.1) long	Y9	unthreaded .35 (8.9) long										
CW	1/4-40 threaded .37 (9.4) long, environmental seals (toggles codes S & M only)			H	1/4-40 threaded .3 (7.6) long												
Terminations																	
A	Right angle	C	Printed circuit	V40	Vertical support	W4	Wire wrap										
AV2	Vertical right angle	V30	Vertical support	W	Wire wrap	Z	Wire lug										
Contacts																	
B	Gold	G	Gold over silver	Q	Silver												
Material																	
04	RoHS Compliant																

GEMINI A SERIES TOGGLES								
Product Key	Poles	Function	Toggles	Bushing	Terminations	Contacts	Material	Part Number
A101KZQ04	1	ON-ON	Locking	Unthreaded .28 (7.1)	Wire Lug	Silver	RoHS Compliant	1825136-7
A101MD9AB04	1	ON-ON	Bat Short	Unthreaded .28 (7.1)	Right Angle	Gold	RoHS Compliant	1-1825136-2
A101MD9AQ04	1	ON-ON	Bat Short	Unthreaded .28 (7.1)	Right Angle	Silver	RoHS Compliant	1-1825136-4
A101MD9AV2B04	1	ON-ON	Bat Short	Unthreaded .28 (7.1)	Vertical Right Angle	Gold	RoHS Compliant	1-1825136-5
A101MDZQ04	1	ON-ON	Bat Short	1/4-40 Threaded .28 (7.1)	Wire Lug	Silver	RoHS Compliant	2-1825136-2
A101MYZQ04	1	ON-ON	Bat Short	1/4-40 Threaded .35 (8.9)	Wire Lug	Silver	RoHS Compliant	2-1825136-4
A101SCWZQ04	1	ON-ON	Bat Long	1/4-40 threaded .37 (9.4)	Wire Lug	Silver	RoHS Compliant	3-1825136-1
A101SD9AB04	1	ON-ON	Bat Long	Unthreaded .28 (7.1)	Right Angle	Gold	RoHS Compliant	3-1825136-2
A101SD9V30B04	1	ON-ON	Bat Long	Unthreaded .28 (7.1)	Vertical Support	Gold	RoHS Compliant	3-1825136-6
A101SHZQ04	1	ON-ON	Bat Long	1/4-40 threaded .3 (7.6)	Wire Lug	Silver	RoHS Compliant	4-1825136-0
A101SYCB04	1	ON-ON	Bat Long	1/4-40 Threaded .35 (8.9)	Printed Circuit	Gold	RoHS Compliant	4-1825136-4
A101SYCQ04	1	ON-ON	Bat Long	1/4-40 Threaded .35 (8.9)	Printed Circuit	Silver	RoHS Compliant	4-1825136-5
A101SYZB04	1	ON-ON	Bat Long	1/4-40 Threaded .35 (8.9)	Wire Lug	Gold	RoHS Compliant	4-1825136-8
A101SYZQ04	1	ON-ON	Bat Long	1/4-40 Threaded .35 (8.9)	Wire Lug	Silver	RoHS Compliant	4-1825136-9
A101TCQ04	1	ON-ON	Lg. Tgl. & Bushing	Unthreaded .28 (7.1)	Printed Circuit	Silver	RoHS Compliant	5-1825136-4
A101TZQ04	1	ON-ON	Lg. Tgl. & Bushing	Unthreaded .28 (7.1)	Wire Lug	Silver	RoHS Compliant	5-1825136-5
A103KZQ04	1	ON-OFF-ON	Locking	Unthreaded .28 (7.1)	Wire Lug	Silver	RoHS Compliant	1825137-1
A103MD9AV2B04	1	ON-OFF-ON	Bat Short	Unthreaded .28 (7.1)	Vertical Right Angle	Gold	RoHS Compliant	1825137-5
A103SYCQ04	1	ON-OFF-ON	Bat Long	1/4-40 Threaded .35 (8.9)	Printed Circuit	Silver	RoHS Compliant	1-1825137-6
A103SYWB04	1	ON-OFF-ON	Bat Long	1/4-40 Threaded .35 (8.9)	Wire Wrap	Gold	RoHS Compliant	1-1825137-7
A103SYWQ04	1	ON-OFF-ON	Bat Long	1/4-40 Threaded .35 (8.9)	Right Angle	Silver	RoHS Compliant	1-1825137-8
A103SYZB04	1	ON-OFF-ON	Bat Long	1/4-40 Threaded .35 (8.9)	Wire Lug	Gold	RoHS Compliant	1-1825137-9
A105MD9AB04	1	(ON)-OFF-(ON)	Bat Short	Unthreaded .28 (7.1)	Right Angle	Gold	RoHS Compliant	2-1825137-4
A105SYCQ04	1	(ON)-OFF-(ON)	Bat Long	1/4-40 Threaded .35 (8.9)	Printed Circuit	Silver	RoHS Compliant	3-1825137-7
A105SYZQ04	1	(ON)-OFF-(ON)	Bat Long	1/4-40 Threaded .35 (8.9)	Wire Lug	Silver	RoHS Compliant	3-1825137-9
A105TZQ04	1	(ON)-OFF-(ON)	Lg. Tgl. & Bushing	Unthreaded .28 (7.1)	Wire Lug	Silver	RoHS Compliant	4-1825137-2
A107SYCQ04	1	ON-OFF-(ON)	Bat Long	1/4-40 Threaded .35 (8.9)	Printed Circuit	Silver	RoHS Compliant	5-1825137-1
A107SYZQ04	1	ON-OFF-(ON)	Bat Long	1/4-40 Threaded .35 (8.9)	Wire Lug	Silver	RoHS Compliant	5-1825137-2
A108SYZQ04	1	ON-(ON)	Bat Long	1/4-40 Threaded .35 (8.9)	Wire Lug	Silver	RoHS Compliant	6-1825136-4
A201KAB04	2	ON-ON	Locking	Unthreaded .28 (7.1)	Right Angle	Gold	RoHS Compliant	1825138-1
A201KZQ04	2	ON-ON	Locking	Unthreaded .28 (7.1)	Wire Lug	Silver	RoHS Compliant	1825138-3
A201MD9AB04	2	ON-ON	Bat Short	Unthreaded .28 (7.1)	Right Angle	Gold	RoHS Compliant	1825138-6
A201MD9AQ04	2	ON-ON	Bat Short	Unthreaded .28 (7.1)	Right Angle	Silver	RoHS Compliant	1825138-7
A201MD9AV2Q04	2	ON-ON	Bat Short	Unthreaded .28 (7.1)	Vertical Right Angle	Silver	RoHS Compliant	1825138-9
A201SYCB04	2	ON-ON	Bat Long	1/4-40 Threaded .35 (8.9)	Printed Circuit	Gold	RoHS Compliant	2-1825138-4
A201SYCQ04	2	ON-ON	Bat Long	1/4-40 Threaded .35 (8.9)	Printed Circuit	Silver	RoHS Compliant	2-1825138-5
A201SYZB04	2	ON-ON	Bat Long	1/4-40 Threaded .35 (8.9)	Wire Lug	Gold	RoHS Compliant	2-1825138-7
A201SYZQ04	2	ON-ON	Bat Long	1/4-40 Threaded .35 (8.9)	Wire Lug	Silver	RoHS Compliant	2-1825138-8
A201TZQ04	2	ON-ON	Lg. Tgl. & Bushing	Unthreaded .28 (7.1)	Wire Lug	Silver	RoHS Compliant	3-1825138-1
A203KZQ04	2	ON-OFF-ON	Locking	Unthreaded .28 (7.1)	Wire Lug	Silver	RoHS Compliant	1825139-1
A203MD9AB04	2	ON-OFF-ON	Bat Short	Unthreaded .28 (7.1)	Right Angle	Gold	RoHS Compliant	1825139-2
A203SYCQ04	2	ON-OFF-ON	Bat Long	1/4-40 Threaded .35 (8.9)	Printed Circuit	Silver	RoHS Compliant	1825139-9
A203SYZQ04	2	ON-OFF-ON	Bat Long	1/4-40 Threaded .35 (8.9)	Wire Lug	Silver	RoHS Compliant	1-1825139-0
A203TZQ04	2	ON-OFF-ON	Lg. Tgl. & Bushing	Unthreaded .28 (7.1)	Wire Lug	Silver	RoHS Compliant	1-1825139-2
A205SYCQ04	2	(ON)-OFF-(ON)	Bat Long	1/4-40 Threaded .35 (8.9)	Printed Circuit	Silver	RoHS Compliant	1-1825139-7
A205SYZQ04	2	(ON)-OFF-(ON)	Bat Long	1/4-40 Threaded .35 (8.9)	Wire Lug	Silver	RoHS Compliant	1-1825139-8
A207SYZQ04	2	ON-OFF-(ON)	Bat Long	1/4-40 Threaded .35 (8.9)	Wire Lug	Silver	RoHS Compliant	2-1825139-4
A208SYZQ04	2	ON-(ON)	Bat Long	1/4-40 Threaded .35 (8.9)	Wire Lug	Silver	RoHS Compliant	3-1825138-8
A211SYZQ04	2	ON-ON-ON	Bat Long	1/4-40 Threaded .35 (8.9)	Wire Lug	Silver	RoHS Compliant	3-1825139-9

Gemini AE Toggle Product Key

Typical Product Key				AE	1	01	S	D1	C	Q	04
Type											
AE Gemini AE Series Toggle											
Number of Poles											
1 Single pole		2 Double pole									
Function											
Single and double pole				Double pole only							
01 ON-ON		07 ON-OFF-(ON)		11 ON-ON-ON							
03 ON-OFF-ON		08 ON-(ON)		13 ON-ON-(ON)							
05 (ON)-OFF-(ON)				15 (ON)-ON-(ON)							
Toggles											
S Bat long		M Bat short									
Bushing											
D1 Unthreaded											
Terminations											
A Right angle		C Printed circuit		V40 Vertical support		W4 Wire wrap					
AV2 Vertical right angle		V30 Vertical support		W Wire wrap		Z Wire lug					
Contacts											
B Gold		G Gold over silver		Q silver							
Material											
04 RoHS Compliant											

GEMINI AE SERIES TOGGLES

Product Key	Poles	Function	Toggles	Bushing	Terminations	Contacts	Material	Part Number
AE101MD1AB04	1	ON-ON	Bat Short	Unthreaded	Right Angle	Gold	RoHS Compliant	1825142-1
AE101MD1AQ04	1	ON-ON	Bat Short	Unthreaded	Right Angle	Gold over Silver	RoHS Compliant	1825142-4
AE101MD1AV2B04	1	ON-ON	Bat Short	Unthreaded	Vertical Right Angle	Gold	RoHS Compliant	1825142-5
AE101MD1CB04	1	ON-ON	Bat Short	Unthreaded	Printed Circuit	Gold	RoHS Compliant	1825142-8
AE101SD1AB04	1	ON-ON	Bat Long	Unthreaded	Right Angle	Gold	RoHS Compliant	1-1825142-5
AE101SD1CB04	1	ON-ON	Bat Long	Unthreaded	Printed Circuit	Gold	RoHS Compliant	2-1825142-0
AE103MD1AV2B04	1	ON-OFF-ON	Bat Short	Unthreaded	Vertical Right Angle	Gold	RoHS Compliant	2-1825142-5
AE103SD1CB04	1	ON-OFF-ON	Bat Long	Unthreaded	Printed Circuit	Gold	RoHS Compliant	3-1825142-0
AE105SD1CB04	1	ON-OFF-ON	Bat Long	Unthreaded	Printed Circuit	Gold	RoHS Compliant	3-1825142-9
AE201SD1AV2B04	2	ON-ON	Bat Long	Unthreaded	Vertical Right Angle	Gold	RoHS Compliant	1825143-9
AE201SD1CB04	2	ON-ON	Bat Long	Unthreaded	Printed Circuit	Gold	RoHS Compliant	1-1825143-0
AE201SD1CQ04	2	ON-ON	Bat Long	Unthreaded	Printed Circuit	Silver	RoHS Compliant	1-1825143-1
AE203SD1AV2B04	2	ON-OFF-ON	Bat Long	Unthreaded	Vertical Right Angle	Gold	RoHS Compliant	1-1825143-7
AE203SD1AV2Q04	2	ON-OFF-ON	Bat Long	Unthreaded	Vertical Right Angle	Silver	RoHS Compliant	1-1825143-8
AE203SD1CB04	2	ON-OFF-ON	Bat Long	Unthreaded	Printed Circuit	Gold	RoHS Compliant	1-1825143-9

Gemini A Rocker Paddle Product Key

Type		Typical Product Key										A	1	01	J1	A	Q	0		04			
A		Rocker/Paddle Switch																					
Number of Poles																							
1		Single pole				2		Double pole															
Function																							
01		ON-ON				05		(ON)-OFF-(ON)				08		ON-(ON)				13		ON-ON-(ON)			
03		ON-OFF-ON				07		ON-OFF-(ON)				11		ON-ON-ON									
Actuator																							
Rocker		Rocker																		Paddle		Paddle	
J1		Small				J51		Snap-in w/beveled frame				J2		Small				J61		Snap-in w/beveled frame			
J3		Large				J52		Snap-in w/beveled frame & LED				J4		Large				J62		Snap-in w/beveled frame & LED			
J50		Snap-in										J60		Snap-in									
Terminals																							
A		Right angle				C		Printed circuit				Z		Wire lug									
AV2		Vertical right angle				V3		Vertical with support bracket .620 (15.75)				Z3		Quick connect									
Contacts																							
B		Gold				G		Gold over silver				Q		silver									
Actuator color																							
0		Black (std.)				2		Red				4		Yellow				6		Blue			
1		Brown				3		Orange				5		Green				8		Gray			
Beveled frame color																							
0		Black (std.)				2		Red				4		Yellow				6		Blue			
1		Brown				3		Orange				5		Green				8		Gray			
Material																							
04		RoHS Compliant																					

GEMINI A SERIES ROCKER/PADDLE									
Product Key	Poles	Function	Actuator	Terminals	Contacts	Act. Color	Fr. Color	Material	Part Number
A101J1AV2Q004	1	ON-ON	Small	Vertical Right Angle	Silver	Black	N/A	RoHS Compliant	1-1571986-1
A101J1ZQ004	1	ON-ON	Small	Wire Lug	Silver	Black	N/A	RoHS Compliant	1-1571986-7
A101J51ZQ004	1	ON-ON	Snap-in	Wire Lug	Silver	Black	Black	RoHS Compliant	3-1571986-4
A103J51ZQ004	1	ON-OFF-ON	Snap-in, Frame	Wire Lug	Silver	Black	Black	RoHS Compliant	4-1571986-5
A105J1ZQ004	1	(ON)-OFF-(ON)	Small	Wire Lug	Silver	Black	N/A	RoHS Compliant	5-1571986-3
A105J3ZQ004	1	(ON)-OFF-(ON)	Large	Wire Lug	Silver	Black	N/A	RoHS Compliant	5-1571986-9
A105J51ZQ004	1	(ON)-OFF-(ON)	Snap-in, Frame	Wire Lug	Silver	Black	Black	RoHS Compliant	6-1571986-1
A107J51ZQ004	1	ON-OFF-(ON)	Snap-in, Frame	Wire Lug	Silver	Black	Black	RoHS Compliant	6-1571986-5
A108J51ZQ004	1	ON-(ON)	Snap-in, Frame	Wire Lug	Silver	Black	Black	RoHS Compliant	6-1571986-9
A201J1AQ004	2	ON-ON	Small	Right Angle	Silver	Black	N/A	RoHS Compliant	1571987-2
A201J1AV2Q004	2	ON-ON	Small	Vertical Right Angle	Silver	Black	N/A	RoHS Compliant	1571987-4
A201J50ZQ004	2	ON-ON	Snap-in	Wire Lug	Silver	Black	N/A	RoHS Compliant	1-1571987-4
A201J51ZQ004	2	ON-ON	Snap-in, Frame	Wire Lug	Silver	Black	Black	RoHS Compliant	1-1571987-5
A201J61ZQ004	2	ON-ON	Snap-in, Frame	Wire Lug	Silver	Black	Black	RoHS Compliant	1-1571987-9
A203J51ZQ004	2	ON-OFF-ON	Snap-in, Frame	Wire Lug	Silver	Black	Black	RoHS Compliant	2-1571987-6
A203J61ZQ004	2	ON-OFF-ON	Snap-in, Frame	Wire Lug	Silver	Black	Black	RoHS Compliant	2-1571987-7
A205J51ZQ004	2	(ON)-OFF-(ON)	Snap-in, Frame	Wire Lug	Silver	Black	Black	RoHS Compliant	3-1571987-3
A205J61ZQ004	2	(ON)-OFF-(ON)	Snap-in, Frame	Wire Lug	Silver	Black	Black	RoHS Compliant	3-1571987-4

Gemini AE Rocker Paddle Product Key



GEMINI AE SERIES ROCKER/PADDLE								
Product Key	Poles	Function	Actuator	Terminals	Contacts	Act. Color	Material	Part Number
AE101J1AQ004	1	ON-ON	Standard	Right Angle	Silver	Black	RoHS Compliant	1571988-2
AE101J1AV2Q004	1	ON-ON	Standard	Vertical Right Angle	Silver	Black	RoHS Compliant	1571988-4
AE101J1V3B004	1	ON-ON	Standard	Br. .620 (15.75)	Gold	Black	RoHS Compliant	1571988-5
AE105J1V3B004	1	(ON)-OFF-(ON)	Standard	Br. .620 (15.75)	Gold	Black	RoHS Compliant	1-1571988-0
AE201J1AV2Q004	2	ON-ON	Standard	Vertical Right Angle	Silver	Black	RoHS Compliant	1571989-2
AE201J1V3B004	2	ON-ON	Standard	Br. .620 (15.75)	Gold	Black	RoHS Compliant	1571989-3

How to Specify a Switch

Electrical Considerations

Voltage of Applications: _____ Current of Application: _____

Circuitry Configuration: Number of Poles: _____ Number of Throws: _____

Number of Operations anticipated: _____

Agency Approvals or Listings Desired: _____

Mechanical Considerations

Type of Switch (Actuator Type): _____ Toggle _____ Pushbutton _____ Rotary _____ Rocker _____ Other

Switch Function (On/Off/On): _____ On/Off: _____ Momentary: _____

Termination: _____ Thru-Hole (PC) _____ Surface Mount _____ Wire Lug _____ Quick Connect _____ Other

Sealing Contamination Requirements: _____

Product Processing Considerations

Anticipated Soldering Process: _____ Hand _____ Wave _____ SMT _____ Other

FOR MORE INFORMATION

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Part numbers in this brochure are RoHS Compliant*, unless marked otherwise.

*as defined www.te.com/leadfree

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[A101J51Z3G0004](#) [A101J51Z3Q0004](#) [A101J51ZQ2004](#) [A103J1AV2B004](#) [A103J1V3Q004](#) [A103J2CB004](#)
[A103J2ZQ004](#) [A105J2AQ004](#) [A105J2ZQ004](#) [A105J3CQ004](#) [A105J3CQ2004](#) [A105J4ZQ004](#) [A105J52ZQ2004](#)
[A107J61ZQ0004](#) [A108J1V3Q004](#) [A108J1ZQ004](#) [A201J1AQ204](#) [A201J1CQ004](#) [A201J1V3Q004](#) [A201J1ZQ004](#)
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