



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

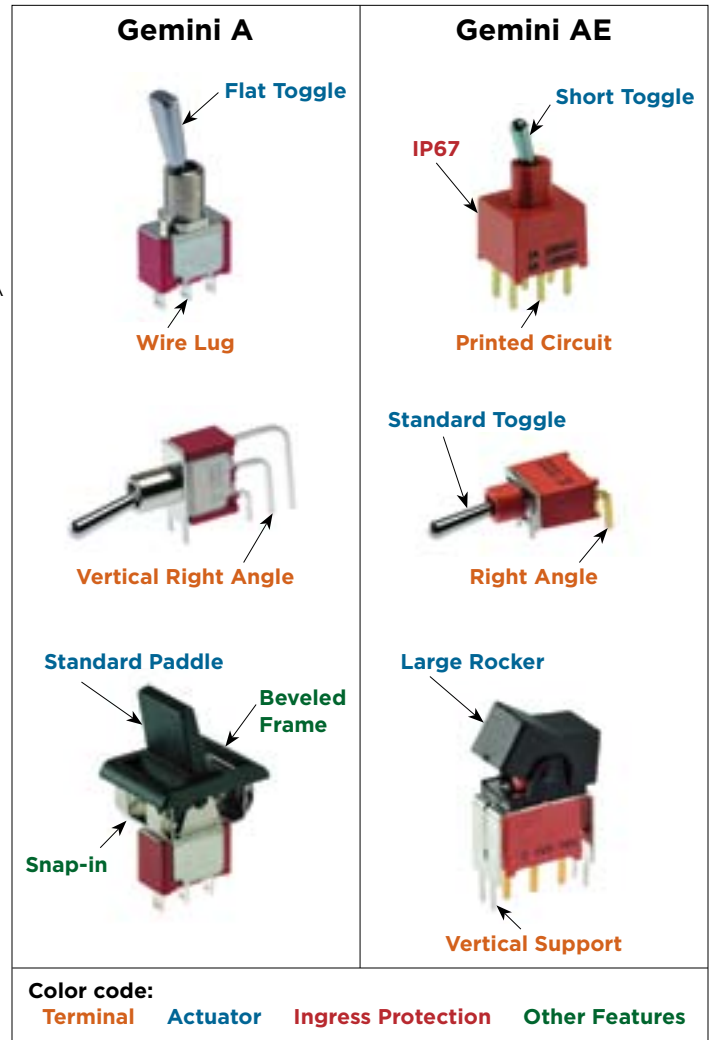
- Contact Configuration** : 1, 2, 3, and 4 pole
- Contact Timing** : Break before make
- Contact Rating Max. :**
 - Gold : 0.4VA @20V AC or DC
 - Gold over Silver : 5A @ 125VAC or 28VDC resistive
0.4VA @ 20V AC or DC or
2A @ 250VAC resistive
 - Silver : 5A @ 125VAC or 28VDC resistive
- Electrical Life** : 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 Toggle Product Key

		Typical Product Key		A	1	01	P3	Z	Q	04	
Type	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		D	1/4-40 threaded .28 (7.1) long	Y	1/4-40 threaded .35 (8.9) long				
	CW	1/4-40 threaded .37 (9.4) long, environmental seals (toggles codes S & M only)		D9	unthreaded .28 (7.1) long	Y9	unthreaded .35 (8.9) long				
				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



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



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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2-1773458-5 CIS LUG FP 1M 04/2011

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Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



Как с нами связаться

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