



## Quick Reference Guide AW Series Switches

The AW Series toggle switch features many circuit configurations, including SPST, SPDT, DPST, DPDT and 4PDT, with a choice of momentary or maintained circuits. The switch provides superior switching power through brass silver alloy contacts. This toggle is UL, CSA recognized for 20A at 30VDC and 20A at 250VAC. Electrical life is 20,000 cycles at full load. Other electrical parameters include contact resistance of 10 milliohms max., insulation resistance of 1,000 megohms and actuation force of 29.4 N max.

The AW Series switches have .250 quick connect terminals and all are panel mountable with 12 mm threaded bushing which is brass with chrome plating. The series mounting design conforms to standard panel cut outs, easing the task of installation.

### Features

- IP67 panel mounting seal
- Sleeve and Frame perfect sealed
- Fixed contact molded-inserting construction
- Wide range switch functions available
- Meets requirements of industrial and outdoor environments

### Applications

These devices are ideal for any design requiring human interface via toggle-style switch in harsh environments, including:

- Industrial equipment
- Heavy machinery
- Construction equipment
- Transportation vehicles
- Outdoor concert and lighting equipment
- Portable power tools

**Typical Performance Characteristics**

- Number of Poles** : 1, 2 and 4 pole
- Switch Functions** : ON-OFF, ON-ON, ON-(ON), ON-OFF-ON, ON-OFF-(ON), (ON)-OFF-(ON)
- Contact Rating** : 20 A @250 VAC, 20 A @125 VAC, 20 A @30 VDC
- Electrical Life** : 20,000 cycles
- Mechanical Life** : 40,000 cycles
- Contact Resistance** : Max. 10 mOhm at 2-4 VDC 1 A
- Insulation Resistance** : Min. 1,000 MOhm
- Dielectric Strength** : 1,500 VAC for 1 min.
- Actuation Force** : Max. 29.4 N
- Panel Cut-out** : D-cut, 12.5 mm
- Standards and Specs** : UL, CSA

**Environmental Specification**

- Operating Temperature** : -20 to +70°C
- Storage Temperature** : -20 to +70°C
- Vibration Resistance** : 1.5 mm 10-55 Hz
- Shock Resistance** : 50 g for 11±1 msec
- Terminal Strength** : 24.5 N

**Material Specifications**

- Contacts** : Brass silver alloy finish
- Toggle** : Brass chromium plated
- Terminals** : Brass plate
- Case** : Phenol resin
- Cover** : Steel zinc plated
- Seal** : Rubber "o" ring panel seal, insert molded internal toggle seal

**Other Characteristics**

- Contact Timing** : Break before Make
- Right Angle Versions** : No
- Standard Number of Positions** : 2 or 3
- Terminals / Mounting Style** : Quick connect
- Actuator Style** : Standard toggle
- Dimensions Case (LxWxH)** : 33 x 19.5 ... 36.5 x 24.5 mm
- Packaging** : Bulk
- Choice of momentary or maintained circuits**



1 Pole



2 Pole



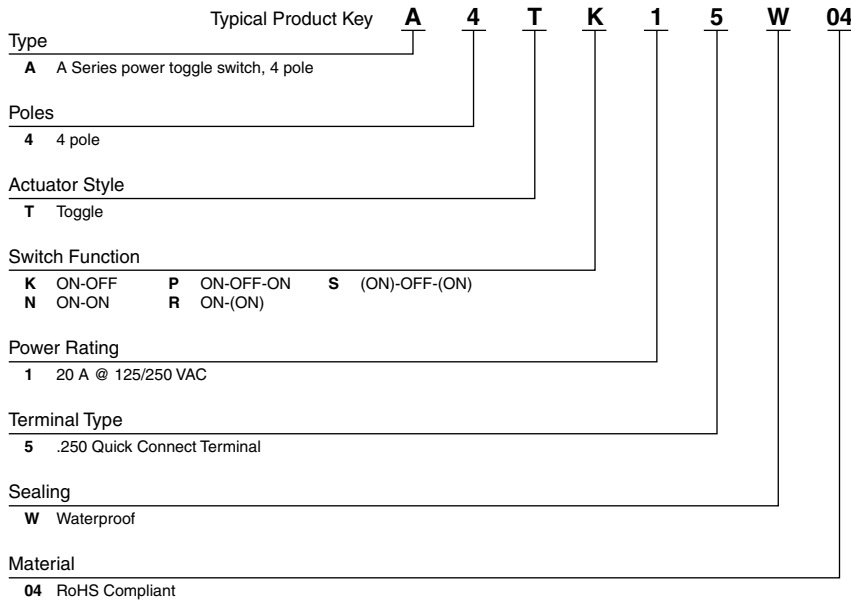
Panel Mounting Hole

**Product Key**



PART NUMBERS						
Product Key	Sealing	Poles	Switch Function	Terminal	Rating	Part Number
AWTA1504	Waterproof	1 pole	ON-OFF	0.250 Quick Connect Terminal	20 A at 125/250 VAC	7-6437630-3
AWTD1504	Waterproof	1 pole	ON-ON	0.250 Quick Connect Terminal	20 A at 125/250 VAC	7-6437630-0
AWTE1504	Waterproof	1 pole	ON-OFF-ON	0.250 Quick Connect Terminal	20 A at 125/250 VAC	7-6437630-1
AWTF1504	Waterproof	1 pole	ON-(ON)	0.250 Quick Connect Terminal	20 A at 125/250 VAC	7-6437630-4
AWTG1504	Waterproof	1 pole	(ON)-OFF-(ON)	0.250 Quick Connect Terminal	20 A at 125/250 VAC	7-6437630-5
AWTH1504	Waterproof	1 pole	ON-OFF-(ON)	0.250 Quick Connect Terminal	20 A at 125/250 VAC	7-6437630-6
AWTN1504	Waterproof	2 poles	ON-ON	0.250 Quick Connect Terminal	20 A at 125/250 VAC	7-6437630-2
AWTP1504	Waterproof	2 poles	ON-OFF-ON	0.250 Quick Connect Terminal	20 A at 125/250 VAC	3-6437592-9
AWTR1504	Waterproof	2 poles	ON-(ON)	0.250 Quick Connect Terminal	20 A at 125/250 VAC	5-6437630-0
AWTS1504	Waterproof	2 poles	(ON)-OFF-(ON)	0.250 Quick Connect Terminal	20 A at 125/250 VAC	1-6437630-1
AWTT1504	Waterproof	2 poles	ON-OFF-(ON)	0.250 Quick Connect Terminal	20 A at 125/250 VAC	1-6437630-0

Product Key



4 Pole

PART NUMBERS						
Product Key	Sealing	Poles	Switch Function	Terminal	Rating	Part Number
A4TK15W04	Waterproof	4 poles	ON-OFF	0.250 Quick Connect Terminal	20 A at 125/250 VAC	8-6437630-0
A4TN15W04	Waterproof	4 poles	ON-ON	0.250 Quick Connect Terminal	20 A at 125/250 VAC	8-6437630-1
A4TP15W04	Waterproof	4 poles	ON-OFF-ON	0.250 Quick Connect Terminal	20 A at 125/250 VAC	8-6437630-2
A4TR15W04	Waterproof	4 poles	ON-(ON)	0.250 Quick Connect Terminal	20 A at 125/250 VAC	8-6437630-3
A4TS15W04	Waterproof	4 poles	(ON)-OFF-(ON)	0.250 Quick Connect Terminal	20 A at 125/250 VAC	8-6437630-4

# How to Specify in 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

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

\*as defined [www.te.com/leadfree](http://www.te.com/leadfree)

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