

ALCOSWITCH ANTI-VANDAL SWITCH SERIES

TE Connectivity's (TE) new ALCOSWITCH Anti-Vandal switch series is designed for security and reliability in a variety of panel mount industrial and building applications. The large pushbutton and available LED indicators illuminate the switch and allow for an easy user interface. The Anti-Vandal series is available in panel sizes of 16, 19, 22 and 25 mm, and with various pushbutton symbols including Spot, Ring, and Power Logo. Switches are sealed to IP67 and available in single and double pole configurations.



Applications

- Industrial equipment
- Elevators/Escalators
- Instrumentation
- Communication equipment
- Control equipment

Electrical

- RoHS Directive 2002/95/E compliant
- REACH Compliant and Pb Free
- UL (E46765) for AV19, AV22 series

Mechanical

- Operating temperature: -20-+55° C

Materials

- Contacts: Copper with silver or gold plating
- Actuator: Stainless Steel
- Terminals: Copper, silver plated
- Terminal seal: Silicon
- Case: PBT
- Bushing: Stainless steel

Key Benefits

- Allow for an easy user interface with a large pushbutton and available LED indicators illuminate the switch
- Enable flexibility with various pushbutton symbols including Spot, Ring, and Power logo
- Achieve a vandal proof solution with a jam nut accessible for rear of the panel
- Ease of installation with available flying lead terminations.

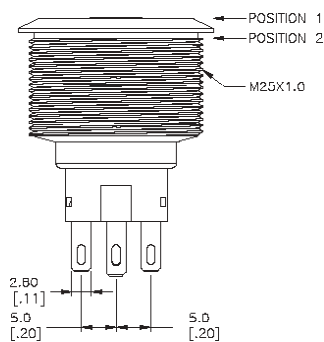
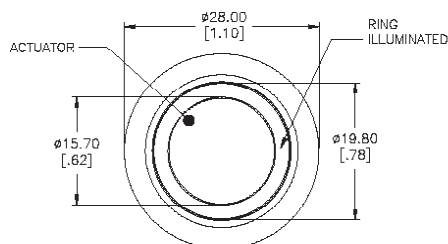
Typical Performance Characteristics

- **Number of poles:** 1 to 2
- **Switch Functions:** OFF-ON, OFF-(ON)
- **Contact Rating:** 2A @ 36VDC (16mm)
3A @ 250VAC (19, 22, 25mm)
- **Gold Contact:** 0.4 VA @ 20V max
- **Electrical life (pushbutton only):** 16mm: 200,000 cycles
19/22/25mm: 50,000 cycles
- **Contact resistance:** 50mOhms max. @ 1A, 12VDC (initial value)
- **Insulation resistance:** 1,000 MOhms min. @500VDC
- **Dielectric strength:** 2,000V for 1 minute
- **Actuator force:** 16mm: 4.5 +/- 1.5 N
19/22/25mm, Single Pole: 2.5 +/- 1.0 N
19/22/25mm, Double Pole: 3.5 +/- 1.0 N
- **Actuator travel:** 16mm: 2.0 mm
19/22/25mm: 3.2 mm
- **Life Expectancy:** Momentary: 1,000,000 actuations
Push On/Off: 500,000 actuation

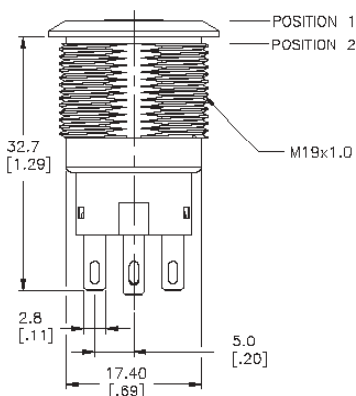
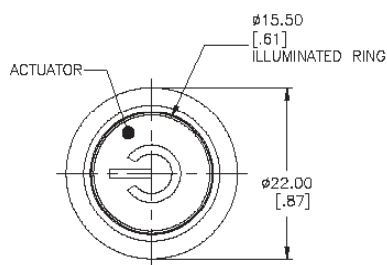


Dimensions

Part Number 2316365-1



Part Number 2316366-1



Product Key

		AV19	10	R	1	12	J	Q	04		
Series										Environmental	
AV16	Anti-Vandal Series, 16mm size									04	RoHs Compliant
AV19	Anti-Vandal Series, 19mm size										
AV22	Anti-Vandal Series, 22mm size										
AV25	Anti-Vandal Series, 25mm size									Plating	
										Q	Silver
										R	Gold
Body Style										Terminal Plating	
10	Single Pole - Momentary									J	Solder Terminal
11	Single Pole - ON/OFF									T5	Flying Leads (500mm)
20	Double Pole - Momentary										
21	Double Pole - ON/OFF									LED Voltage	
										0	No LED
										12	12 Volts
										24	24 Volts
LED Type										LED Color	
O	No LED									0	No LED
R	Fixed Ring									1	White
D	Spot									3	Red
P	Power Logo									5	Yellow
E	Moving Ring									6	Green
E1	Moving Ring w/Power Logo	7	Blue								
										A	Red & Green
										B	Red & Blue
										C	Red & Yellow

Product Selection Information

Product Key	Series	Body Style	LED color	LED voltage	Terminal Plating	TE PN
AV1610R112R04	16 mm	Single Pole - Momentary	White	12 Volts	Gold	2213774-1
AV1910D512Q04	19 mm	Single Pole - Momentary	Yellow	12 Volts	Silver	2213765-9
AV1910RAZ4Q04	19 mm	Single Pole - Momentary	Red / Green	24 Volts	Silver	2317404-2
AV1910EG24T5Q04	19 mm	Single Pole - Momentary	Red / Yellow	24 Volts	Silver	3-2316531-5
AV2210E324R04	22 mm	Single Pole - Momentary	Red	24 Volts	Gold	2213772-8
AV2211EB12Q04	22 mm	Single Pole - Locking	Red / Blue	12 Volts	Silver	2317570-9
AV2220EB12T5Q04	22 mm	Double Pole - Momentary	Red / Blue	12 Volts	Silver	4-2317570-4
AV2510E312Q04	25 mm	Single Pole - Momentary	Red	12 Volts	Silver	2317656-3
AV2521M124Q04	25 mm	Double Pole - Locking	White	24 Volts	Silver	2-2317658-6
AV2511MB12T5Q04	25 mm	Single Pole - Locking	Red / Blue	12 Volts	Silver	2317659-7

te.com

© 2017 TE Connectivity Ltd. Family of Companies. All Rights Reserved. ALCOSWITCH, TE, TE Connectivity, and the TE connectivity (logo) are trademarks of the TE Connectivity Ltd. family of companies. Other logos, product and Company names mentioned herein may be trademarks of their respective owners.

While TE has made every reasonable effort to ensure the accuracy of the information in this brochure, TE does not guarantee that it is error-free, nor does TE make any other representation, warranty or guarantee that the information is accurate, correct, reliable or current. TE reserves the right to make any adjustments to the information contained herein at any time without notice. TE expressly disclaims all implied warranties regarding the information contained herein, including, but not limited to, any implied warranties of merchantability or fitness for a particular purpose. The dimensions in this catalog are for reference purposes only and are subject to change without notice. Specifications are subject to change without notice. Consult TE for the latest dimensions and design specifications.

1-1773878-3 JN 5/2017

USA: +1 (800) 522-6752
Canada: +1 (905) 475-6222
Mexico: +52 (0) 55-1106-0800
Latin/S. America: +54 (0) 11-4733-2200
Germany: +49 (0) 6251-133-1999
UK: +44 (0) 800-267666
France: +33 (0) 1-3420-8686
The Netherlands: +31 (0) 73-6246-999
China: +86 (0) 400-820-6015

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

TE Connectivity:

[AV1610P612R04](#) [AV1610P712R04](#) [AV1610P512R04](#) [AV1610P312R04](#) [AV1610P112R04](#) [AV1910D712R04](#)
[AV1920P324R04](#) [AV1610R612R04](#) [AV1911R724Q04](#) [AV1610R124R04](#) [AV1911D712Q04](#) [AV1910E624R04](#)
[AV1910P624R04](#) [AV1911D724R04](#) [AV1911P724R04](#) [AV1921D312R04](#) [AV1921D712R04](#) [AV1921P324R04](#)
[AV1921R112R04](#) [AV1921R624Q04](#) [AV2221000R04](#) [AV2221E724R04](#) [AV1911R612R04](#) [AV1920E524R04](#)
[AV1920E724R04](#) [AV1920P124R04](#) [AV1920R112R04](#) [AV1921D124R04](#) [AV2221E512R04](#) [AV2221E524R04](#)
[AV1910D524R04](#) [AV1911D324R04](#) [AV1911P124R04](#) [AV1911R512R04](#) [AV1921R724Q04](#) [AV1910P312R04](#)
[AV1910P524R04](#) [AV1920D324R04](#) [AV1921D512Q04](#) [AV2221E312R04](#) [AV1910D312R04](#) [AV1910D524Q04](#)
[AV1911000R04](#) [AV1911E124R04](#) [AV1921E312R04](#) [AV1921R612Q04](#) [AV1911R712Q04](#) [AV1920D324Q04](#)
[AV1920E624R04](#) [AV1921E724R04](#) [AV2211E312R04](#) [AV2220000R04](#) [AV1921R324R04](#) [AV2221E112R04](#)
[AV1910000R04](#) [AV1911D312R04](#) [AV1911E112R04](#) [AV1911E712R04](#) [AV1911D624R04](#) [AV1920D124R04](#)
[AV1920P624R04](#) [AV1920R512R04](#) [AV1921E524R04](#) [AV1921E712R04](#) [AV1921D324Q04](#) [AV1921P524R04](#)
[AV1921R112Q04](#) [AV1921R712Q04](#) [AV2211E612R04](#) [AV1910R724R04](#) [AV1910R512R04](#) [AV1910R712R04](#)
[AV1911D512R04](#) [AV1911D712R04](#) [AV1911E724R04](#) [AV1911R324R04](#) [AV2211E512R04](#) [AV2211E624R04](#)
[AV1910E124R04](#) [AV1910E712R04](#) [AV1910E724R04](#) [AV1910R124R04](#) [AV1921R124Q04](#) [AV1911P712R04](#)
[AV1920000R04](#) [AV1920D612R04](#) [AV1920R712R04](#) [AV2210E724R04](#) [AV1910P324R04](#) [AV1920D624R04](#)
[AV1921D124Q04](#) [AV1921D612R04](#) [AV1921D624R04](#) [AV1921E624R04](#) [AV1921R312R04](#) [AV1921R712R04](#)
[AV2210E512R04](#) [AV2220E712R04](#) [AV1910D112R04](#) [AV1910D512R04](#)