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# ALCOSWITCH
# ANTI-VANDAL SWITCH SERIES

## INTRODUCTION

TE Connectivity (TE)'s 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 12 mm, 16 mm, 19 mm, 22 mm 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.



## FEATURES

- Allows 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 resistant solution with a jam nut accessible at rear of the panel
- Ease of installation with available flying lead terminations.

## APPLICATIONS

- Industrial equipment
- Elevators/escalators
- Instrumentation
- Communication equipment
- Control equipment
- Medical equipment
- Parking systems
- Emergency communication

## ELECTRICAL

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

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# ALCOSWITCH ANTI-VANDAL SWITCH SERIES

## TYPICAL PERFORMANCE CHARACTERISTICS

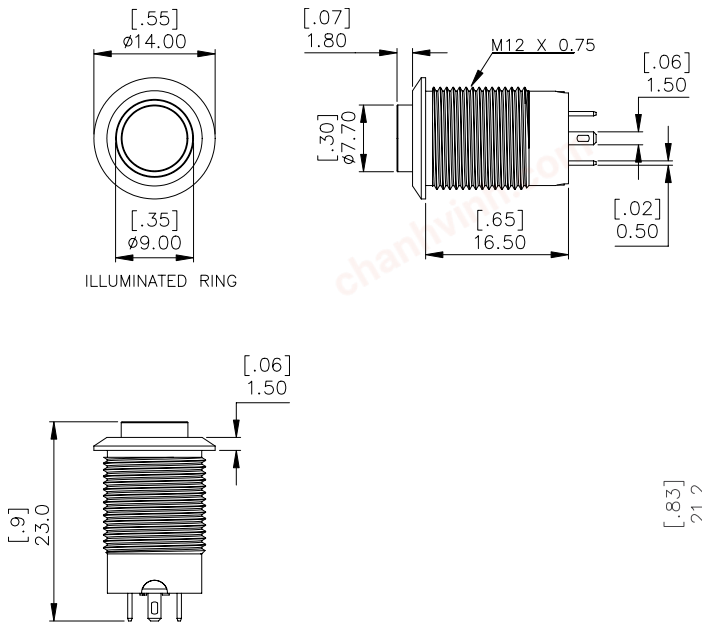
| | Anti-Vandal 12 | Anti-Vandal 12 Flush | Anti-Vandal 16 | Anti-Vandal 19 | Anti-Vandal 22 | Anti-Vandal 25 |
|---|---|---|---|---|---|---|
| |  |  |  |  |  |  |
| **Electrical Specifications** | | | | | | |
| Number of poles | 1 to 2 | | | | | |
| Switch functions | OFF-ON, OFF-(ON) | | | | | |
| Contact rating | 100 mA @ 24 VDC | | 2A @ 36 VDC | | 3A @ 250 VAC/28 VDC | |
| Gold contact | - | | | | 0.4 VA @ 20 V max. | |
| Electrical life (pushbutton only) | 100,000 cycles | | 200,000 cycles | | 50,000 cycles | |
| Contact resistance | 50 mΩ max. @ 1 A, 12 VDC (initial value) | | | | | |
| Insulation resistance | 1,000 MΩ min. @500 VDC | | | | | |
| Dielectric strength | 1,000 V for 1 minute | | 2,000 V for 1 minute | | | |
| **Mechanical** | | | | | | |
| Actuator force | 3.0 ±1.5 N | | 4.5 ±1.5 N | | Single Pole: 2.5 ±1.0 N<br>Double Pole: 3.5 ±1.0 N | |
| Actuator travel | 1.8 mm | | 2.0 ± 2.0 mm | | 3.2 mm | |
| Life expectancy | 500,000 actuations | | 1,000,000 actuations | | Momentary: 1,000,000 actuations<br>Push On/Off: 500,000 actuation | |
| Operating temperature | -20 °C to +55 °C | | -20 °C to +70 °C | | -20 °C to +55 °C | |
| **Materials** | | | | | | |
| Contacts | Brass, gold plated | | Copper with silver or gold plating | | | |
| Actuator | Stainless steel/PC | | Stainless steel | | | |
| Terminals | Brass, Gold flash plated | | | | Copper base, silver/gold plated | |
| Terminal seal | Silicon | | | | | |
| Case | PA66 | | PBT | | | |
| Bushing | Stainless steel | | Al alloy | | Stainless steel | |

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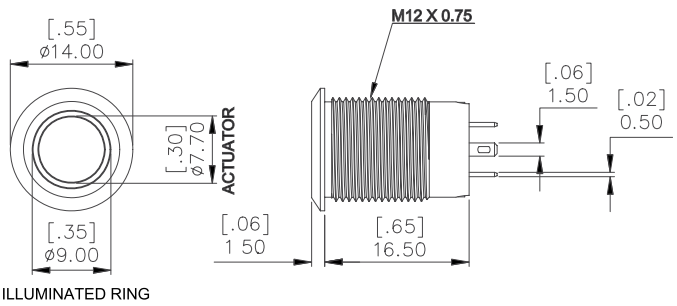
# ALCOSWITCH ANTI-VANDAL SWITCH SERIES

## DIMENSIONS (Unit: mm[inches])

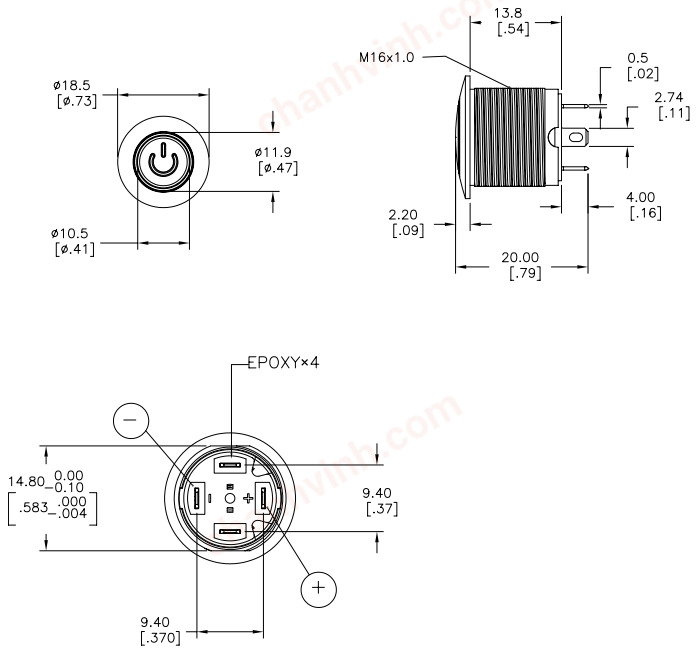
### Anti-Vandal 12



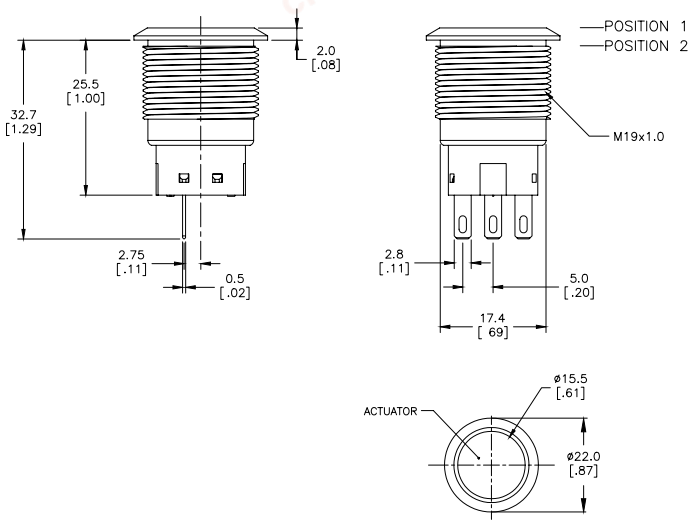

### Anti-Vandal 12 Flush




### Anti-Vandal 16



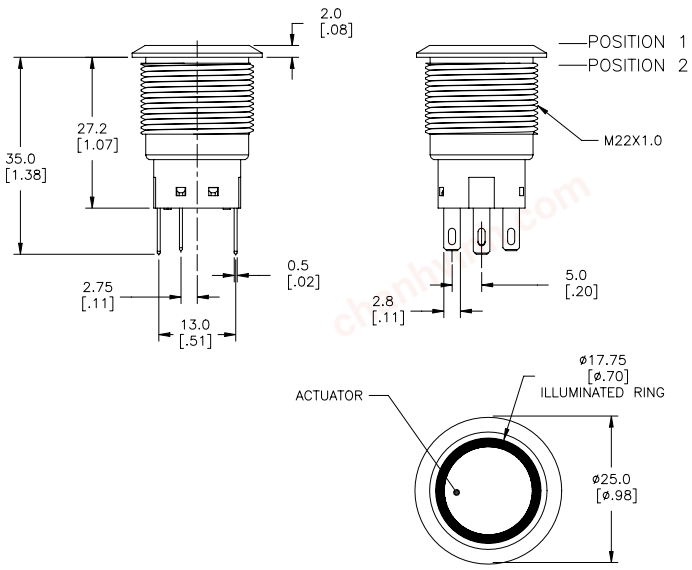

### Anti-Vandal 19



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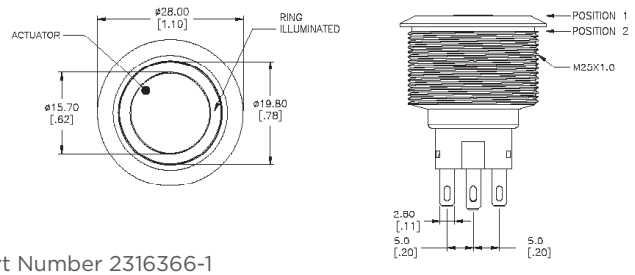
# ALCOSWITCH ANTI-VANDAL SWITCH SERIES

## Anti-Vandal 22

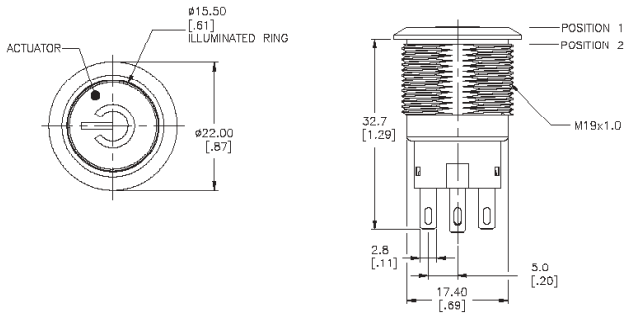



## Anti-Vandal 25

Part Number 2316365-1




Part Number 2316366-1




## PRODUCT SELECTION EXAMPLES

| Product key | Series | Body Style | LED color | LED voltage | Terminal Plating | Part number |
|---|---|---|---|---|---|---|
| AV1210E112R04 | 12 mm | Single pole - Momentary | White | 12 Volts | Silver | 2474606-1 |
| AV1210E124R04 | 12 mm | | White | 24 Volts | Silver | 2474606-6 |
| AV12F10E112Q04 | 12 mm | | White | 12 Volts | Silver | 2488219-1 |
| AV12F10E124Q04 | 12 mm | | White | 24 Volts | Silver | 2488219-7 |
| AV1610R112R04 | 16 mm | | White | 12 Volts | Gold | 2213774-1 |
| AV1910D512Q04 | 19 mm | | Yellow | 12 Volts | Silver | 2213765-9 |
| AV1910RAZ4Q04 | 19 mm | | Red / Green | 24 Volts | Silver | 2317404-2 |
| AV1910EG24T5Q04 | 19 mm | | Red / Yellow | 24 Volts | Silver | 3-2316531-5 |
| AV2210E324R04 | 22 mm | | 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 |

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## PRODUCT CODE STRUCTURE

**Product Key**

| AV19 | 10 | R | 1 | 12 | _ | Q | 04 |
|---|---|---|---|---|---|---|---|

### Series

| | |
|---|---|
| **AV12** | Anti-Vandal series, 12 mm size |
| **AV12F** | Anti-Vandal series, 12 mm size Flush type |
| **AV16** | Anti-Vandal series, 16 mm size |
| **AV19** | Anti-Vandal series, 19 mm size |
| **AV22** | Anti-Vandal series, 22 mm size |
| **AV25** | Anti-Vandal series, 25 mm size |

### Body style

| | |
|---|---|
| **10** | Single Pole - Momentary |
| **11** | Single Pole - ON/OFF |
| **20** | Double Pole - Momentary |
| **21** | Double Pole - ON/OFF |

### LED type

| | |
|---|---|
| **0** | No LED |
| **R** | Fixed ring |
| **D** | Spot |
| **P** | Power logo |
| **E** | Moving ring |
| **E1** | Moving ring without Power logo |

### Environmental

| | |
|---|---|
| **04** | RoHs compliant |

### Plating

| | |
|---|---|
| **Q** | Silver |
| **R** | Gold |

### Terminal style

| | |
|---|---|
| | Solder terminal |
| **T5** | Flying leads (500 mm) |

### LED voltage

| | |
|---|---|
| **0** | No LED |
| **12** | 12 Volts |
| **24** | 24 Volts |

### LED color

| | |
|---|---|
| **0** | No LED |
| **1** | White |
| **3** | Red |
| **5** | Yellow |
| **6** | Green |
| **7** | Blue |
| **A** | Red & Green |
| **B** | Red & Blue |
| **C** | Red & Yellow |

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