

# ALCOSWITCH ANTI-VANDAL SWITCH SERIES

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## 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 12mm, 16mm, 19mm, 22mm and 25mm, 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



# ALCOSWITCH ANTI-VANDAL SWITCH SERIES

## TYPICAL PERFORMANCE CHARACTERISTICS



### Electrical Specifications

Number of poles	1 to 2			
Switch functions	OFF-ON, OFF-(ON)			
Contact Rating	100mA @ 24VDC	2A @ 36VDC	3A @ 250VAC/28VDC	
Gold contact	-		0.4 VA @ 20V max.	
Electrical life (pushbutton only)	100,000 cycles	200,000 cycles	50,000 cycles	
Contact resistance	50mΩ max. @ 1A, 12VDC (initial value)			
Insulation resistance	1,000 MΩ min. @500VDC			
Dielectric strength	1,000V for 1 minute	2,000V for 1 minute		

### Mechanical

Actuator force	3.0 ±1.5 N	4.5 ±1.5 N	Single Pole: 2.5 ±1.0 N 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 Push On/Off: 500,000 actuation	
Operating temperature	-20°C to +55°C	-20°C to +70°C	-20°C to +55°C	

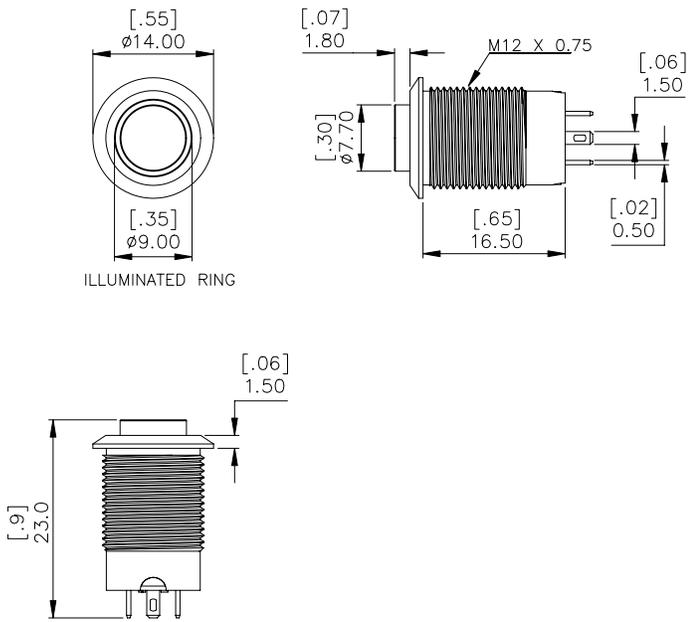
### Materials

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	

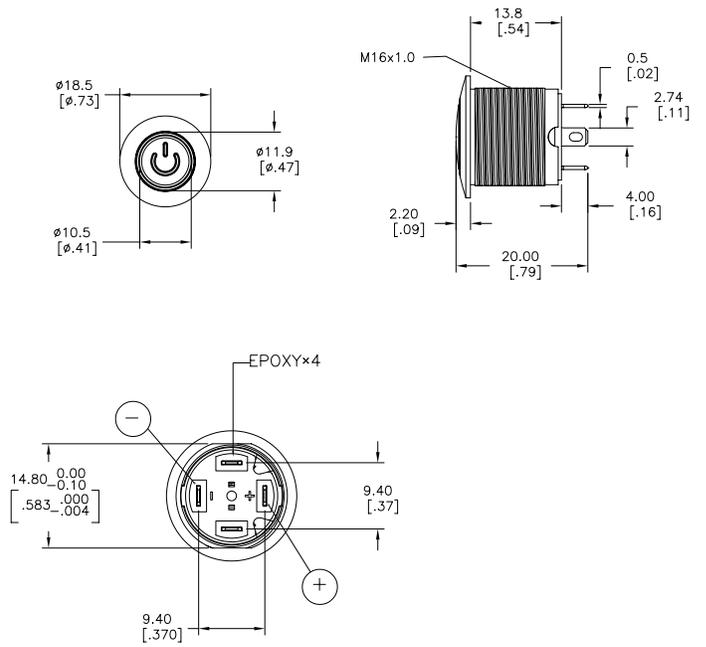
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## DIMENSIONS (Unit: mm[inches])

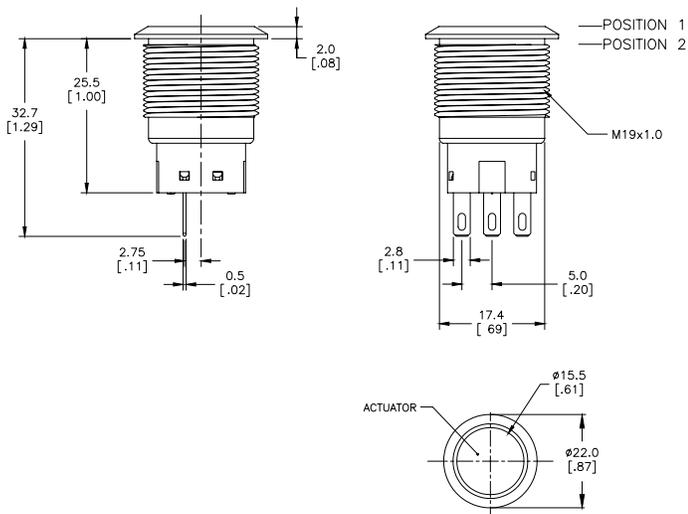
### Anti-Vandal 12



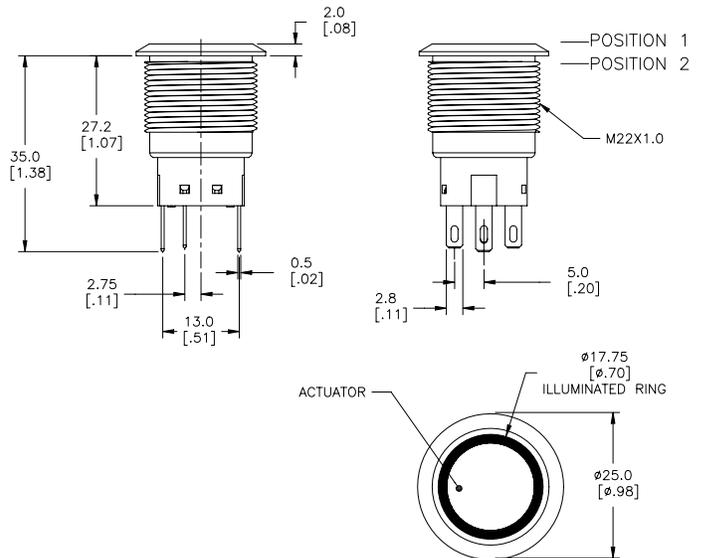
### Anti-Vandal 16



### Anti-Vandal 19



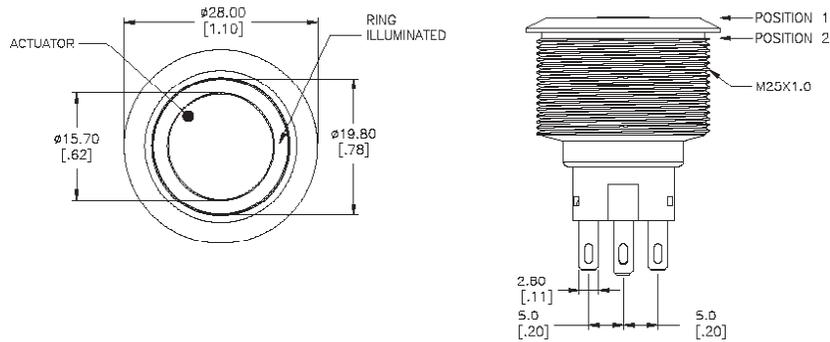
### Anti-Vandal 22



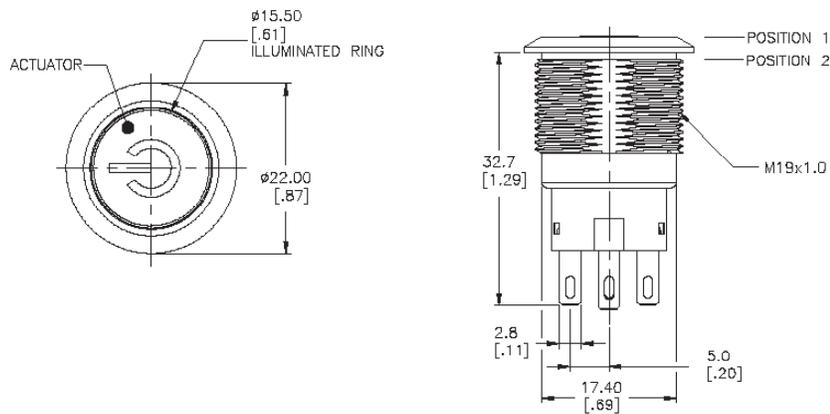
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## Anti-Vandal 25

Part Number 2316365-1



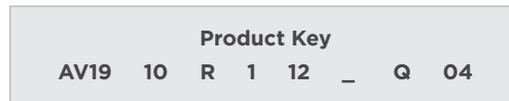
Part Number 2316366-1



## 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	<a href="#">2474606-1</a>
AV1210E124R04	12 mm		White	24 Volts	Silver	<a href="#">2474606-6</a>
AV1610R112R04	16 mm		White	12 Volts	Gold	<a href="#">2213774-1</a>
AV1910D512Q04	19 mm		Yellow	12 Volts	Silver	<a href="#">2213765-9</a>
AV1910RAZ4Q04	19 mm		Red / Green	24 Volts	Silver	<a href="#">2317404-2</a>
AV1910EG24T5Q04	19 mm		Red / Yellow	24 Volts	Silver	<a href="#">3-2316531-5</a>
AV2210E324R04	22 mm		Red	24 Volts	Gold	<a href="#">2213772-8</a>
AV2211EB12Q04	22 mm	Single pole - Locking	Red / Blue	12 Volts	Silver	<a href="#">2317570-9</a>
AV2220EB12T5Q04	22 mm	Double pole - Momentary	Red / Blue	12 Volts	Silver	<a href="#">4-2317570-4</a>
AV2510E312Q04	25 mm	Single pole - Momentary	Red	12 Volts	Silver	<a href="#">2317656-3</a>
AV2521M124Q04	25 mm	Double pole - Locking	White	24 Volts	Silver	<a href="#">2-2317658-6</a>
AV2511MB12T5Q04	25 mm	Single pole - Locking	Red / Blue	12 Volts	Silver	<a href="#">2317659-7</a>

## PRODUCT CODE STRUCTURE



### Series

<b>AV12</b>	Anti-Vandal series, 12mm size
<b>AV16</b>	Anti-Vandal series, 16mm size
<b>AV19</b>	Anti-Vandal series, 19mm size
<b>AV22</b>	Anti-Vandal series, 22mm size
<b>AV25</b>	Anti-Vandal series, 25mm size

### Body style

<b>10</b>	Single Pole - Momentary
<b>11</b>	Single Pole - ON/OFF
<b>20</b>	Double Pole - Momentary
<b>21</b>	Double Pole - ON/OFF

### LED type

<b>0</b>	No LED
<b>R</b>	Fixed ring
<b>D</b>	Spot
<b>P</b>	Power logo
<b>E</b>	Moving ring
<b>E1</b>	Moving ring without Power logo

### Environmental

<b>04</b>	RoHs compliant
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### Plating

<b>Q</b>	Silver
<b>R</b>	Gold

### Terminal style

	Solder terminal
<b>T5</b>	Flying leads (500mm)

### LED voltage

<b>0</b>	No LED
<b>12</b>	12 Volts
<b>24</b>	24 Volts

### LED color

<b>0</b>	No LED
<b>1</b>	White
<b>3</b>	Red
<b>5</b>	Yellow
<b>6</b>	Green
<b>7</b>	Blue
<b>A</b>	Red & Green
<b>B</b>	Red & Blue
<b>C</b>	Red & Yellow

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