

Emergency Stop Switches



Characteristics

Low profile body and impressively short behind panel depth of only 13.6mm offer advantages to high density panel layouts. Switches are IP65 rated per IEC 60529 Standards at the front panel. Outstanding safety and reliability factors are benefits of unique sliding latch mechanism that maintains the OFF state of the contacts. Protection against rugged vibration and chattering credited to internal construction featuring superior shock resistant properties.

Choice of actuators in 25 and 30mm diameters, plus directional arrow legend or blank surface. Resetting methods include both pulling and/or twisting.

All models have insert-molded solder lug terminals that are protected from automated processing techniques.

The FF01 Series has various accessories, including a protective guard and nameplates with *EMERGENCY STOP* legend or blank. The nameplates and switch guard are all interchangeable for both actuator sizes.

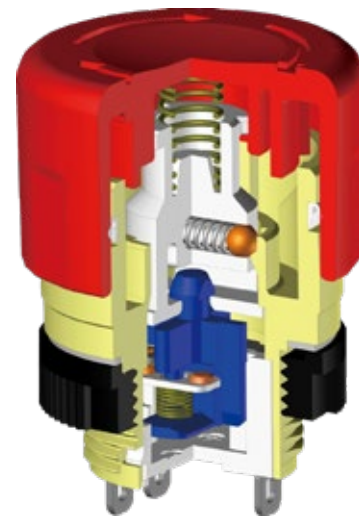
Specifications

Electrical Capacity: 0.5A @ 24V DC (Resistive Load)
 Rated Insulation Voltage: 36V DC
 Impulse Withstand Voltage: 2.5kV
 Contact Resistance: 50 milliohms maximum
 Insulation Resistance: 100 megohms minimum @ 500V DC
 Mechanical Life: 100,000 operations minimum
 Electrical Life: 100,000 operations minimum
 Operating Force: Push to lock 10.8N; Pull to reset 8.5N; Turn to reset 0.13N•m
 Minimum Direct Operating Force: 15N
 Short Circuit Protection: gG10A
 Conditional Short Circuit Current: 1000A
 Minimum Positive Opening Travel: .118" (3.0mm)
 Total Travel: .177" (4.5mm)
 Operation Frequency: 10 times per minute
 Overvoltage Category: II

Operating Temperature Range: -25°C ~ +60°C (-13°F ~ +140°F)
 Storage Temperature Range: -45°C ~ +80°C (-49°F ~ +176°F)
 Humidity: 90 ~ 95% humidity for 240 hours @ +40°C (+104°F)
 Vibration: 10 ~ 500Hz, amplitude 0.35mm. Acceleration 50m/s².
 Shock: Durability: 1,000m/s². Malfunction: 150m/s².
 Pollution Degree: 3
 Sealing: Meets IP65 of IEC 60529 Standards at front panel

Mounting Torque: 785mN•m
 Soldering Time & Temperature: Manual Soldering: 390°C maximum for 4 seconds maximum, 2 cycles

Standards & Certifications: UL, C-UL (UL508). EN 60947-5-1, EN 60947-5-5. TÜV Rheinland



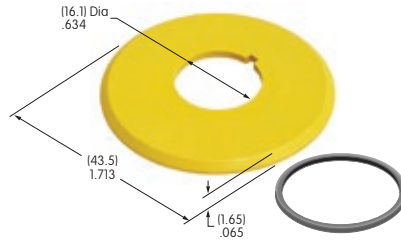
Applications

- 3D printers
- Robotics
- Operation controllers (e.g., teach pendants)
- Factory automation equipment
- Fluid dispensers
- Laser measurement devices

Optional Accessories

AT221 Nameplate without Legend

One o-ring is provided with each nameplate

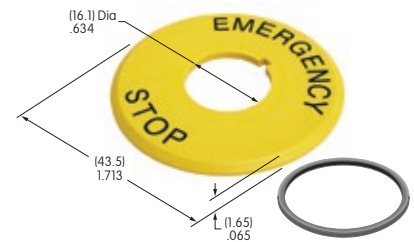


Materials & Colors:

Nameplate: Glass fiber reinforced polyamide
O-ring: Chloroprene rubber
Nameplate: Yellow
O-ring: Black

AT222 Nameplate with Emergency Stop Legend

One o-ring is provided with each nameplate

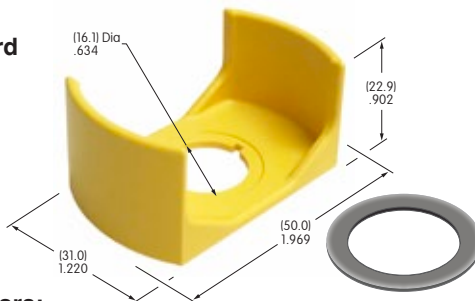


Materials & Colors:

Nameplate: Glass fiber reinforced polyamide
O-ring: Chloroprene rubber
Nameplate: Yellow with black letters
O-ring: Black

AT220 Protective Guard

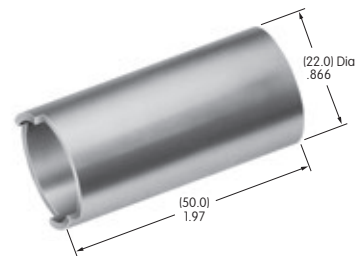
One o-ring is provided with each protective guard



Materials & Colors:

Guard: Glass fiber reinforced polyamide
O-ring: Chloroprene rubber
Guard: Yellow
O-ring: Black

AT119 Socket Wrench



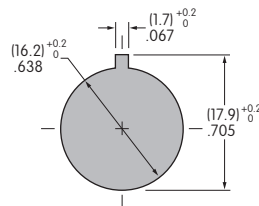
Material:

Brass with nickel plating
Use to tighten switch nut in installation

Panel Thickness & Cutout

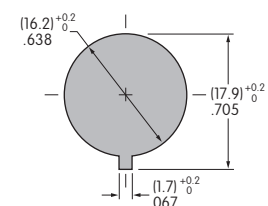
Panel Thickness & Cutout for Switches

Recommended Panel Thickness:
.031" ~ .177"
(0.8mm ~ 4.5mm)



Panel Thickness & Cutout for Nameplates or Protective Guard

Recommended Panel Thickness:
.020" ~ .118"
(0.5mm ~ 3.0mm)



25mm Cap With or Without Actuator Legend • SPST



FF0116BACAEA01 (shown)
FF0116BACEEA01

25mm Cap With or Without Actuator Legend • DPST



FF0126BACEEA01 (shown)
FF0126BACAEA01

30mm Cap With or Without Actuator Legend • SPST



FF0116BBCAEA01 (shown)
FF0116BBCCEEA01

30mm Cap With or Without Actuator Legend • DPST



FF0126BBCCEEA01 (shown)
FF0126BBCAEA01