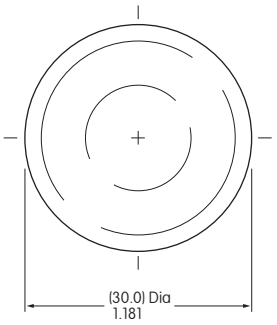
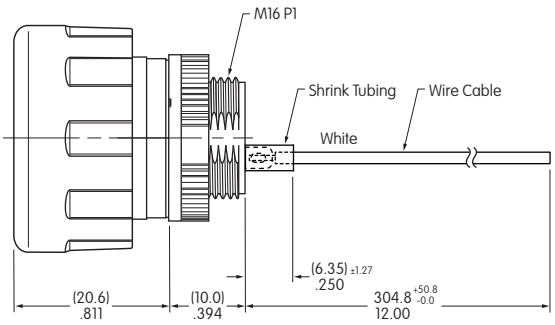
E-Stop Switch with IP65 Rating & Wire Leads

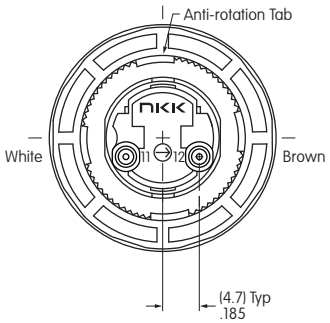
Series FF01

FF0116BBCEEA01-WL

Dimensions in mm/inch



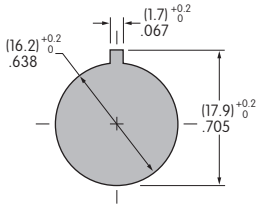




SINGLE POLE SOLDER LUG

Base Switch	Pole & Throw	Plunger Position		Connected Terminals		Throw & Switch Schematics
		Normal	Down	Normal	Down	Note: Terminal numbers are on the switch.
FF0116BBCEEA01	SPST	ON	OFF	11-12	OPEN	SPST NC (11, 12)

PANEL CUTOUT



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

WIRING

Number of Wires	Terminal 11	Terminal 12
2	White	Brown

WIRE SPECIFICATIONS

UL1007/UL1569 PVC	Temperature: +80°C and +105°C (+176°F and +221°F)
Voltage: 300V	
22 AWG Stranded	Stripped Wire Ends .142" (3.6mm)

Base Switch Specifications

Electrical Capacity

Resistive Load: 0.5A @ 24V DC

Other Ratings

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

Materials & Finishes

Actuator: Glass fiber reinforced polyester (PBT)
Housing: Glass fiber reinforced polyamide
Movable Contacts: Silver alloy copper with gold plating
Stationary Contacts: Silver alloy copper with gold plating
Terminals: Brass with tin plating

Environmental Data

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

Installation

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

Standards & Certifications

TÜVRheinland CERTIFIED — Type Approved Safety Regular Production Surveillance — www.tuv.com ID 1419078444

UL, C-UL (UL508)

EN 60947-5-1, EN 60947-5-5

CE

Emergency Stop Switches

Characteristics

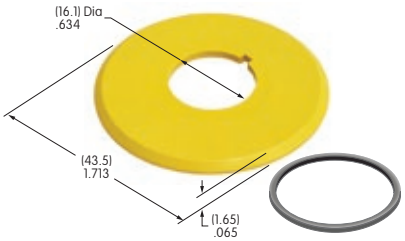
Low profile body and impressively short behind panel depth of only 13.6mm offer advantages to high density panel layouts. Switches are IP65 rated at the front panel per IEC 60529 Standards (dust tight and protected against water jets from any direction). Outstanding safety and reliability factors are 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.

All models have solder lug terminals and an actuator in 25 or 30mm diameters, with directional arrow legend or blank surface. Resetting methods include both twisting or pull release for enhanced safety.

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.

Optional Accessories

AT221
Nameplate without Legend



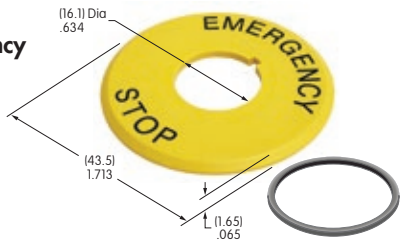
One o-ring is provided with each nameplate

Materials & Colors:

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

Nameplate: Yellow
O-ring: Black

AT222
Nameplate with Emergency Stop Legend



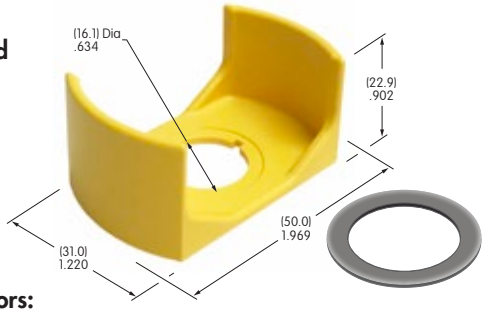
One o-ring is provided with each nameplate

Materials & Colors:

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

Nameplate: Yellow with black letters
O-ring: Black

AT220
Protective Guard



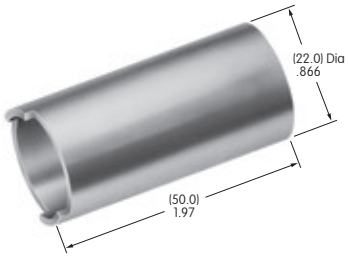
One o-ring is provided with each protective guard

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