

Low Profile E-STOP Switch

World's smallest class with 13.6mm short behind-panel depth



► Applicable standards

- UL
- C-UL
- TÜV (EN60947-5-1, EN60947-5-5)
- CE

► Sliding latch mechanism (patents pending)

The sliding latch mechanism achieves the shortest body in the industry and maintains the OFF state even with chatter vibration and shocks.

► Front panel seal structure

Front panel sealing mechanism conforming to IP65 of IEC60529 standard.

► Two ways of resetting

The switch can be reset by pulling or turning.

► Smallest $\Phi 25$ button

Very compact design of 25mm diameter button allows for tight dimensional applications.

► Shock and vibration resistance

Excellent shock and vibration resistance despite being in the smallest class, making it a superb choice for portable devices.

FF01 Series ($\Phi 25$, $\Phi 30$)
Low Profile E-STOP Switch

NKK SWITCHES CO.,LTD.

► General specifications

General specifications			
Standards	UL508 EN60947-5-1 EN60947-5-5 CE (LVD, Machinery Directive)	Nominal operating force	40N
Rated operating voltage Rated operating current	Resistive load DC24V 0.5A	Pretravel	4.5mm
Rated insulation voltage	AC/DC 36V	Travel	Approx. 4.5mm
Rated impulse withstand voltage	2.5kV	Contact resistance	50mΩ (initial value)
Protective construction	IP65 front panel	Insulation resistance	100MΩ (@DC500V)
Pollution degree	3	Overvoltage category	II
Short-circuit protective device	gG10A (reference)	Frequency of operation	10 times/min.
Conditional short-circuit current	1000A	Shock resistance	Durability: 1000m/s ² Malfunction: 150m/s ²
Ambient operating temperature	-25 to 60°C		
Ambient storage temperature	-40 to 80°C	Vibration resistance	Durability: 10 to 500Hz Half amplitude: 0.35mm Acceleration: 50m/s ² Malfunction: 10 to 500Hz Half amplitude: 0.35mm Acceleration: 50m/s ²
Operability (initial value)	Push to lock: 12N Pull to unlock (or reset): 10N (reference) Turn (or twist) to unlock (or reset): 0.17N·m		
Contact arrangement	N/C	Mechanical/ electrical life	100,000 operations minimum
Soldering time and temperature	Soldering: 390°C or less, within 4 seconds	Mounting torque	0.785N·m

► Lineup

Circuit	Φ25 button		Φ30 button	
	Without marking	Marking	Without marking	Marking
Single pole single throw	FF0116BACEA01	FF0116BACAA01	FF0116BBCEA01	FF0116BBCAA01
Double pole single throw	FF0126BACEA01	FF0126BACAA01	FF0126BBCEA01	FF0126BBCAA01
Shape				

► Main applications

Portable equipment such as small radio wireless remote control (teaching pendants) and handheld items.

Please note that various specifications listed are subject to change without notice.
For the latest specifications, please check with our representative.

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