### Features/Benefits

- Chassis or panel mount
- Various buttons
- Various contact configurations
- RoHS compliant

### **Typical Applications**

- Mains/power switching
- **Consumer electronics**
- Audio equipment
- **Digital products**



#### **Specifications**

POWER CONTACT:

SWITCHING POWER MAX. AC/DC: NE18: 1500/100 W, TOTAL TRAVEL: 4.7mm (.185 inch) NE18CTII: 1000/100 W; AC (Inductive cos w =0.6): NE18: 900W, LATCHING TRAVEL: 3.3mm (.130 inch) NF18CTII: 600W OPERATING FORCE: Without auxiliary low voltage contacts: SWITCHING VOLTAGE MAX. AC/DC: 250/100V NE18: 7N (700 grams); NE18CTII: 9.5N (950 grams). SWITCHING CURRENT MAX. AC/DC With auxiliary low voltage contacts: NE18: 8N (800 grams); AC (Inductive cos w =0.6): NE18: 6 A<sup>2</sup>)<sup>4</sup>)/1 A, NE18CTII: 4 A<sup>2</sup>)/1 A NE18CTII: 11N (1100 grams). INRUSH CURRENT MAX. AC1): NE18: 36 A, NE18CTII: 64 A SEALING: Dust proof. DIELECTRIC STRENGTH (50 Hz, 1 min.): 2000 V OPERATING LIFE AT MAX. LOAD AND AT MAX. INRUSH Materials CURRENT: ^10<sup>4</sup> operations<sup>5</sup>) HOUSING, ACTUATOR & TERMINAL BOARD: Thermoplastic CONTACT RESISTANCE: Initial:  $50m\Omega$ ; After  $10^4$  operations:  $70m\Omega$ . INSULATION RESISTANCE:  $^{10}\Omega$  chassis – nearest contact; polyester (UL 94V-0).  $^{10^{12}}$  Ωmains contact – mains contact;  $^{10^{12}}$  Ωmains contact – MOVABLE CONTACT: Silver nickel alloy, silver plated. mains contact after 10<sup>4</sup> operations. FIXED CONTACTS: Silver nickel alloy, silver plated. LOW VOLTAGE CONTACT: COMMON CONTACTS & TERMINALS: Copper alloy, silver plated. SWITCHING POWER MAX .: 12W **RETURN SPRING: Music wire.** SWITCHING VOLTAGE MAX .: 24V NOTE: For the latest information regarding RoHS compliance, please go to:

/ww.ittcannon.com/rohs. All models arer BoHS compliant and compare

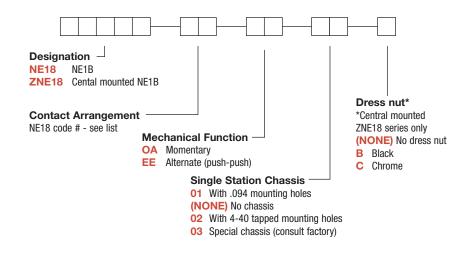
SWITCHING CURRENT MAX .: 0.5A

NOTE: Specifications and materials listed above are for switches with standard options. For information on specific and custom switches, consult Customer Service Center.

#### **Build-A-Switch**

To order, simply select desired option from each category and place in the appropriate box. Available options are shown and described on pages A-100 thru A-106. For additional options not shown in catalog, consult Customer Service Center.

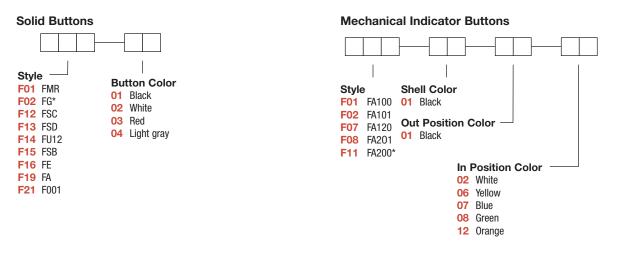
If requesting only a switch, select the switch as noted below. Buttons are sold separately.





Dimensions are shown: Inches (mm) Specifications and dimensions subject to change

#### **Order Code - Buttons**



\*Button options for central mounting configurations, use 'FG' for central mount with chrome dress nut, use 'FA200' for central mount with black dress nut.

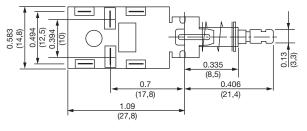
#### **BUTTON REMOVAL**

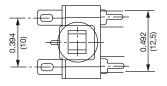
A button of a push-push switch should only be removed in the "OFF" non-latching position.

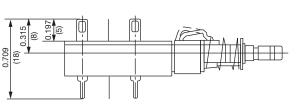
## **DESIGNATION & SWITCHES WITH STANDARD OPTIONS**

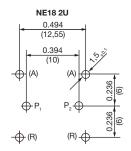
#### **NE1838EE**













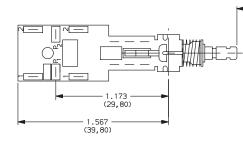
Third Angle Projection Dimensions are shown: Inches (mm)

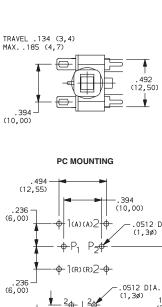
Specifications and dimensions subject to change

Pushbutton >

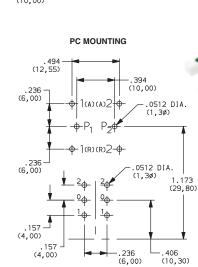
**DESIGNATION & SWITCHES WITH STANDARD OPTIONS** 

#### **NE1839EE**

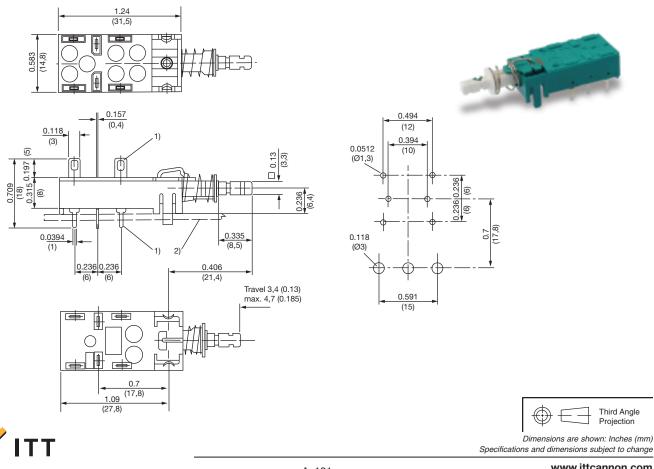




.118— (3,00) -.016 (0,40) .197 (5,00) Φ .709  $\square$ İ .039 (1,00) —.157 TYP. (4,00) .236 (6,00) .236 (6,00)



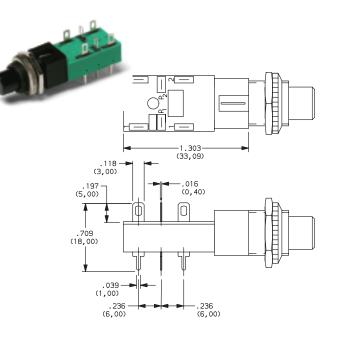
**NE1848EE** 

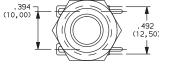


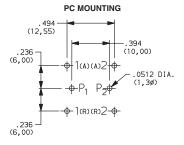
## **DESIGNATION & SWITCHES WITH STANDARD OPTIONS**

#### 

### ZNE1838EECF0201











Dimensions are shown: Inches (mm) Specifications and dimensions subject to change

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### CONTACT ARRANGEMENT

#### 

OPTION CODE Contact capacity and availability	STYLE	ELECTRICAL CIRCUIT
37	NE18 — 2AX	DPST
38	NE18 — 2UX	DPDT
51	2U + NE18 — 2AX	DPST*
<b>52</b> (4A/64)	NE18CTII — 2AX	DPST
39	2U + NE18 — 2UX	DPDT*
41	NE18 — 2AP	DPST
42	NE18 — 2UP	DPDT
43	NE18 — 2AW	DPST
44	NE18 — 2UW	DPDT
45	NE18 — 2ASX	DPST

2U + Denotes auxiliary set of low current contacts DPDT 2A = DPST 2U = DPDT

S = Snap-in mounting X = Solder lug/PC pins W = Solder lugs only P = PC pins only

OPTION CODE Contact capacity and availability	STYLE	ELECTRICAL CIRCUIT
46	NE18 – 2USX	DPDT
47	NE18 – 2ASP	DPST
48	NE18 – 2USP	DPDT
49	NE18 - 2ASW	DPST
50	NE18 - 2USW	DPDT
<b>53</b> (4A/64)	2U + NE18CTII — 2AX	DPST
54	2U + NE18 — 2AW	DPST
55	2U + NE18 — 2AP	DPST
56	2U + NE18 — 2UW	DPDT
57	2U + NE18 — 2UP	DPDT

NOTES

Contact plating is silver on all Power Switches.
 The electrical function is Break Before Make (BBM) on all Power Switches.

3. The terminals will be epoxy sealed.

	POSSIBLE CONTACT ARRANGEMENT				
TYPE	POWER CONTACTS <sup>1</sup>	AUXILIARY CONTACTS	CONTACT SPACING	PROTECTION CLASS (CEE 24)	APPROVALS
NE18	2A <sup>2</sup>	2U	> 3mm (.118 inch)	II	VDE, BSI, DEMKO, NEMKO, SEMKO, SEV, CSA, UL
NE18	2A <sup>2</sup> 2U	2U	> 3mm (m) (.118 inch)	I	VDE, MEEI, BSI <sup>3</sup> , DEMKO, NEMKO, SEMKO, SEV, CSA, UL
NE18CTII	2A <sup>2</sup>	2U	> 3mm (.118 inch)	II	VDE, BSI, DEMKO, CSA, SEMKO, SEV, UL, NEMKO

1) A = make contact, R = break contact, U = changeover contact, m = VDE sign for switches with a contact spacing (air gap) < 3mm (.118 inch) according to VDE 0630/CEE 24.</li>
2) With 2A mains contacts: Mounting only by PC pins is not sufficient.
3) BSI only for 2U mains contacts.

#### MECHANICAL FUNCTION

OPTION CODE	FUNCTION
OA	Momentary
EE	Alternate (push-push)



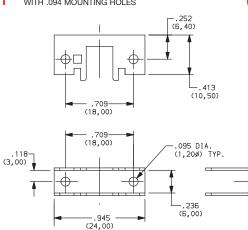
Third Angle  $\bigoplus$ t Projection

Dimensions are shown: Inches (mm) Specifications and dimensions subject to change

## SINGLE STATION CHASSIS

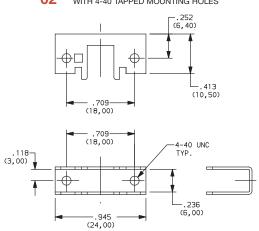
01 WITH .094 MOUNTING HOLES

Pushbutton >

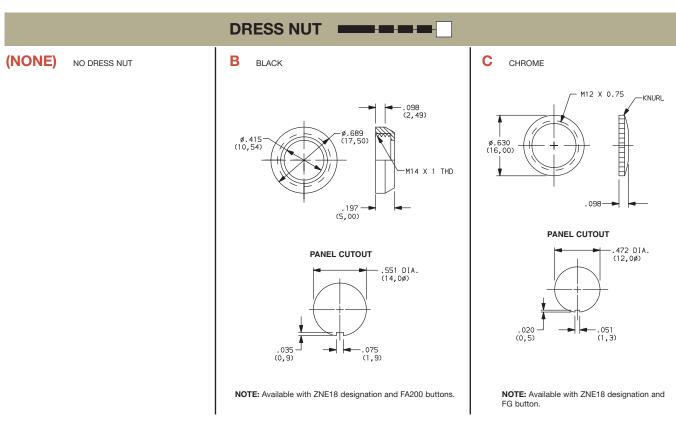


(NONE) NO CHASSIS 02 WITH 4-40 TAPPED MOUNTING HOLES

 $\mathbf{h}$ 



03 SPECIAL CHASSIS (CONSULT FACTORY)





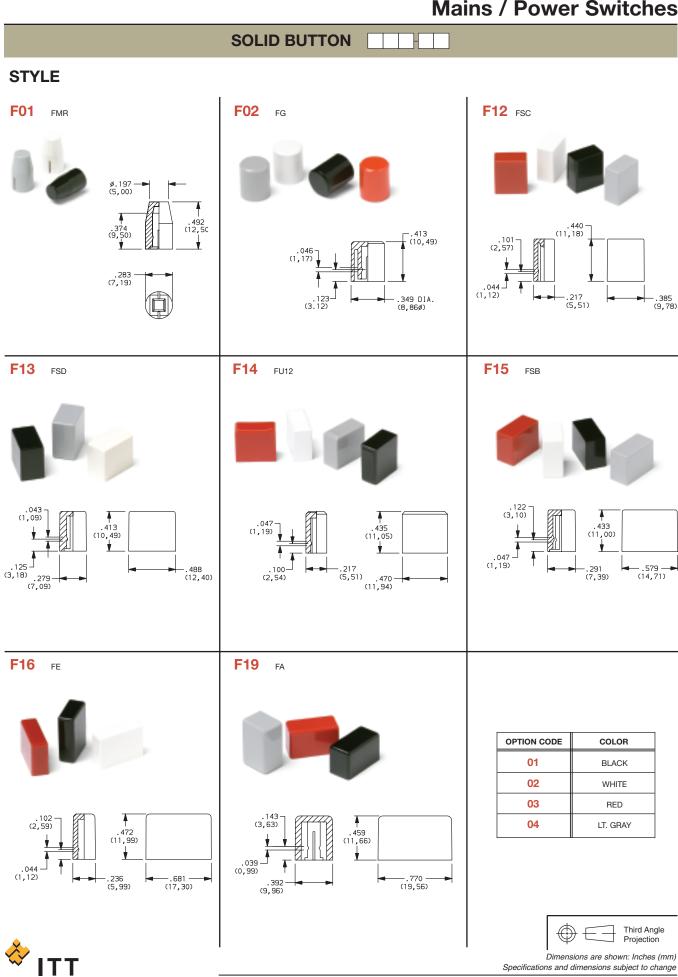
Dimensions are shown: Inches (mm) Specifications and dimensions subject to change





Downloaded from Arrow.com.

ITT



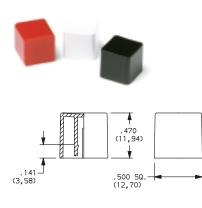
Dimensions are shown: Inches (mm) Specifications and dimensions subject to change

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**SOLID BUTTON** 

## **STYLE**

### F21 F001



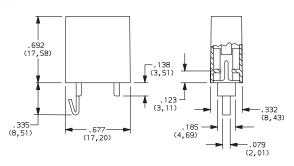
OPTION CODE	COLOR
01	BLACK
02	WHITE
03	RED
04	LT. GRAY
09	BLACK/CHROME (F03,F06 & F07 buttons only

	SHELL	. COLOR IN	POSITION COLOR
MECHANICAL BUTTON	STYLE	OUT POSITION COLO	OR

## **STYLE**

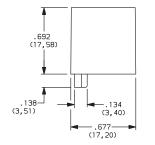
F01 FA100

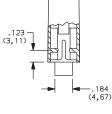




F02 FA101





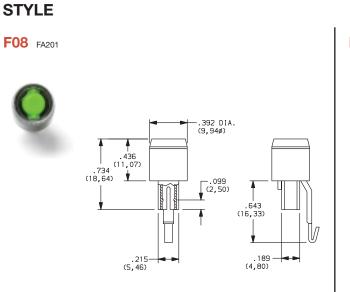




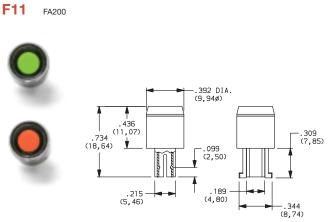
Dimensions are shown: Inches (mm) Specifications and dimensions subject to change

ITT

Pushbutton >



**MECHANICAL BUTTON** 



OSITION COLOR

### SHELL COLOR

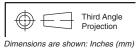
01 BLACK

## **OUT POSITION COLOR**

01 BLACK

## **IN POSITION COLOR**

OPTION CODE	COLOR
02	WHITE
06	YELLOW
07	BLUE
08	GREEN
12	ORANGE



Specifications and dimensions subject to change

