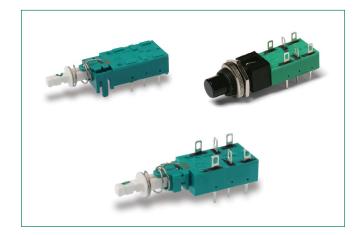
NE-18 Series Mains / Power Switches

Agency





Agency Approvals

Agency File Number

c Fl °us	E	61760
	Specifications	
Electrical Rating	NE18 Series: 8A GP, 125 VAC, 50/60 Hz, 1E4, T70 6A GP, 250 VAC, 50/60 Hz, 1E4, T70 6(4)A RM, 250 VAC, 50/60 Hz, 1E4, T70 6/48A RC, 250 VAC, 50/60 Hz, 1E4, T70 1RA, 100 VDC, 1E4, T70 8RA, 30VDC, 1E4, T70 NE18CTII Series: 4A GP, 250 VAC, 50/60 Hz, 1E4, T70 4/48A RC, 250 VAC, 50/60 Hz, 1E4, T70 1RA, 100 VDC, 1E4, T70 4RA, 30VDC, 1E4, T70	
Dielectric Strength (50 Hz, 1 min.)	2,000 V	
Operating Life at Max. Load and at Max. INRUSH Current	^10⁴ operations⁵	
Contact Resistance	Initial: 50mΩ; After 104	operations: $70m\Omega$.
Insulation Resistance	^10 ¹² Ω chassis – nearest contact; ^10 ¹² Ω mains contact – mains contact; ^10 ¹² Ω mains contact – mains contact after 10 ⁴ operations.	
Low Voltage Contact	-	
Switching Power Max.	12W	
Switching Voltage Max.	. 24V	
Switching Current Max.	. 0.5A	

4.7mm (0.185 inch)

3.3mm (0.130 inch)

Dust Proof

Without auxiliary low voltage contacts: NE18: 7N (700 grams); NE18CTII: 9.5N

(950 grams). With auxiliary low voltage contacts: NE18: 8N (800 grams).

Description

The NE-18 series of mains/power switches were designed with consumer electronics and audio equipment in mind. Developers choose reliable NE-18 switches for their innovative product designs because of the wide variety of buttons and contact configurations available and the ability to select either a chassis or panel mount.

Features & Benefits

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

Applications

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

Materials

Housing, Actuator & Terminal Board	Thermoplastic polyester (UL 94V-0).	
Movable Contact	Silver nickel alloy, silver plated.	
Fixed Contacts	ciivei mekeraney, eiivei piatea.	
Common Contacts & Terminals	Copper alloy, silver plated.	
Return Spring	Music Wire	

Notes:

All models are RoHS compliant and compatible. Specifications and materials listed above are for switches with standard options. For information on specific and custom switches, consult Customer Service Center.



Total Travel

Latching Travel

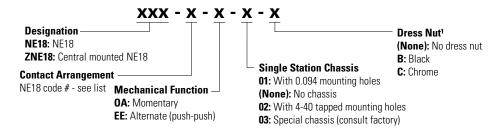
Operating Force

Sealing



Ordering Number

To order, simply select desired option from each category and place in the appropriate box. 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.



Notes:

1. Central mounted ZNE18 series only

Order Code - Buttons

Solid Buttons Mechanical Indicator Buttons XXX - X - X - X

^^^	^		XXX - X - X	- A
Style —	Button Color	Style —	\longrightarrow T T	$^{ op}$ In Position Color
FO1: FMR	01: Black	F01 : FA100		02: White
F02: FG ¹	02: White	F02: FA101	Shell Color →	06: Yellow
F12 : FSC	03: Red	F07 : FA120	01: Black	07: Blue
F13: FSD	04: Light gray	F08: FA201		08: Green
F14: FU12	5 5 ,	F11: FA200 ¹	Out Position Color	12: Orange
F15: FSB			01: Black	
F16: FE				
F19: FA				
F21: F001				

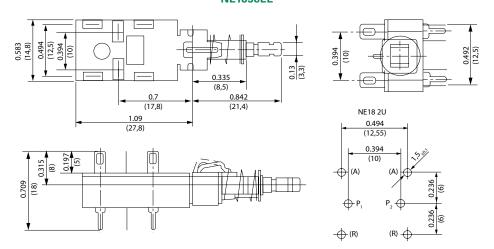
Notes:

1. 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



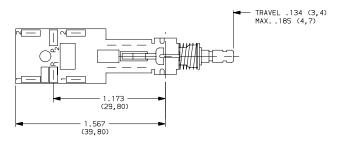


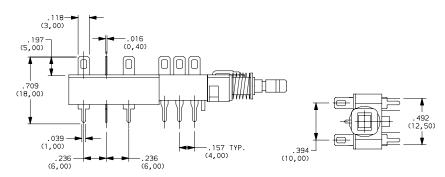
NE-18 Series

Mains / Power Switches

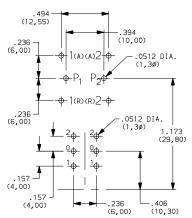


NE1839EE

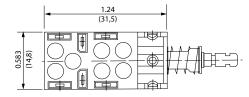


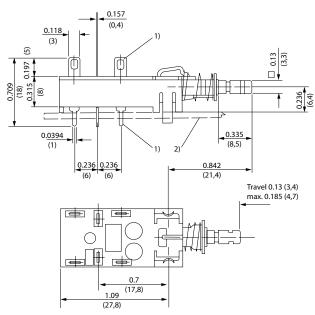


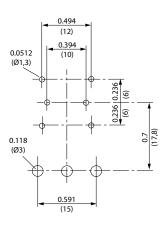
PC Mounting



NE1846EE







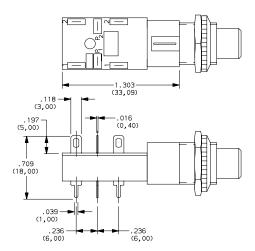


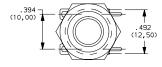
NE-18 Series

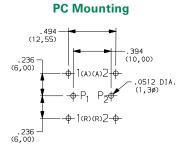
Mains / Power Switches



ZNE1838EECF0201







Contact Arrangement

Option Code Contact Capacity and Availability	Style	Electrical Circuit
37	NE18 - 2AX	DPST
38	NE18 - 2UX	DPDT
51	2U + NE18 - 2AX	DPST1
52 (4A/64)	NE18CTII - 2AX	DPST
39	2U + NE18 - 2UX	DPDT1
41	NE18 - 2AP	DPST
42	NE18 - 2UP	DPDT
43	NE18 - 2AW	DPST
44	NE18 - 2UW	DPDT
45	NE18 - 2ASX	DPST

N	ote	S
	01	

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

2A = DPS1 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
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. The terminals will be epoxy sealed.

Possible Contact Arrangment Type		Contact Spacing	Protection Class	Approvals	
Type	Power Contacts ¹	Auxiliary Contacts	Contact Spacing	(CEE 24)	Approvais
NE18	2A ²	2U	> 3mm (0.118 inch)	II	
NE18	2A², 2U	20	> 3111111 (0.116 111011)	I	c Fl us 15 UL61058-1
NE18CTII	2A ²	-	> 3mm (0.118 inch)	II	UL01058-1

Notes:

1. A = make contact, U = changeover contact

2. With 2A mains contacts: Mounting only by PC pins is not sufficient.

Mechanical Function

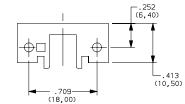
Option Code	Function
OA	Momentary
EE	Alternate (push-push)

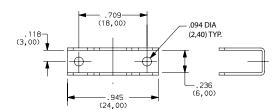




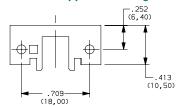
Single Station Chassis (None) No Chassis

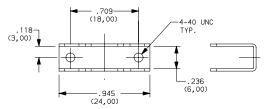
01 with 0.094 Mounting Holes





02 with 4-40 Tapped Mounting Holes



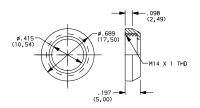


03 Special Chassis (Consult Factory)

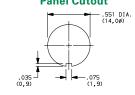
Dress Nut

(None) No Dress Nut

B Black

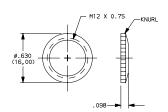


Panel Cutout

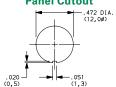


Note: Available with ZNE18 designation and FA200 buttons.

C Chrome



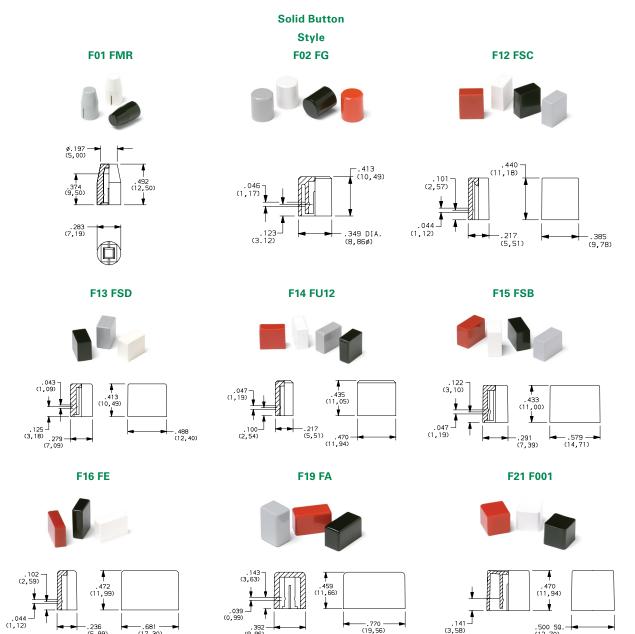
Panel Cutout



Note: Available with ZNE18 designation and FG buttons.

NE-18 Series Mains / Power Switches





-.681 -(17,30)

.392

NE-18 SeriesMains / Power Switches



F01~F19 color

Option Code	Color
01	Black
02	White
03	Red
04	LT. Gray

F21 color

Option Code	Color
01	Black
02	White
03	Red
04	LT. Gray
09	Black / Chrome 09 (F03,F06 & F07) buttons only

Mechanical Button

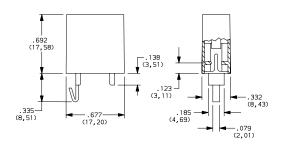
Style

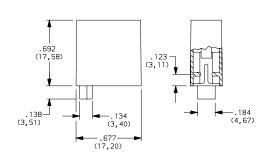
F01 FA100

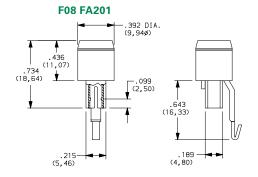




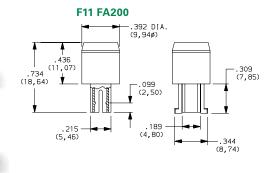
F02 FA101











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

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