|  |  | C\&K NE-18 Series <br> Mains / Power Switches |
| :---: | :---: | :---: |
| Features/Benefits <br> - Chassis or panel mount <br> - Various buttons <br> - Various contact configurations <br> - RoHS compliant | Typical Applications <br> - Mains/power switching <br> - Consumer electronics <br> - Audio equipment <br> - Digital products |  |

## Specifications

## POWER CONTACT:

SWITCHING POWER MAX. AC/DC: NE18: 1500/100 W,
NE18CTII: 1000/100 W; AC (Inductive cos w $=0.6$ ): NE18: 900W, NE18CTII: 600W.
SWITCHING VOLTAGE MAX. AC/DC: 250/100V

## SWITCHING CURRENT MAX. AC/DC

AC (Inductive cos w =0.6): NE18: $\left.\left.6 A^{2}\right)^{4}\right) / 1$ A, NE18CTII: $\left.4 A^{2}\right) / 1 A$ INRUSH CURRENT MAX. AC ${ }^{1}$ ): NE18: 36 A, NE18CTII: 64 A
DIELECTRIC STRENGTH ( $50 \mathrm{~Hz}, 1 \mathrm{~min}$.): 2000 V
OPERATING LIFE AT MAX. LOAD AND AT MAX. INRUSH
CURRENT: ${ }^{\wedge} 10^{4}$ operations ${ }^{5}$ )
CONTACT RESISTANCE: Initial: $50 \mathrm{~m} \Omega$; After $10^{4}$ operations: $70 \mathrm{~m} \Omega$.
INSULATION RESISTANCE: ${ }^{\wedge} 10^{12}$ תchassis - nearest contact;
$\wedge 10^{12}$ mmains contact - mains contact; ^10 ${ }^{12} \Omega$ mains contact -
mains contact after $10^{4}$ operations.
LOW VOLTAGE CONTACT:
SWITCHING POWER MAX.: 12W
SWITCHING VOLTAGE MAX.: 24V

SWITCHING CURRENT MAX.: 0.5A
TOTAL TRAVEL: 4.7 mm (. 185 inch)
LATCHING TRAVEL: 3.3 mm (. 130 inch )
OPERATING FORCE: Without auxiliary low voltage contacts: NE18: 7N (700 grams); NE18CTII: 9.5N (950 grams).
With auxiliary low voltage contacts: NE18: 8N (800 grams); NE18CTII: 11N (1100 grams).
SEALING: Dust proof.

## Materials

HOUSING, ACTUATOR \& TERMINAL BOARD: Thermoplastic polyester (UL 94V-0).
MOVABLE CONTACT: Silver nickel alloy, silver plated.
FIXED CONTACTS: Silver nickel alloy, silver plated.
COMMON CONTACTS \& TERMINALS: Copper alloy, silver plated.
RETURN SPRING: Music wire.
NOTE: For the latest information regarding RoHS compliance, please go to: www.ittcannon.com/rohs. All models arer RoHS compliant and compatible.

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.



## Order Code - Buttons

## Solid Buttons

|  | - |
| :---: | :---: |
| Style |  |
| F01 FMR | Button Colo |
| F02 FG* | 01 Black |
| F12 FSC | 02 White |
| F13 FSD | 03 Red |
| F14 FU12 | 04 Light gray |
| F15 FSB |  |
| F16 FE |  |
| F19 FA |  |
| F21 F001 |  |

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

## Mechanical Indicator Buttons



## BUTTON REMOVAL

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

## NE1838EE





NE1848EE


ITT

## DESIGNATION \& SWITCHES WITH STANDARD OPTIONS

## ZNE1838EECF0201



# C\&K NE-18 Series Mains / Power Switches 

| OPTION CODE Contact capacity and availability | STYLE | ELECTRICAL CIRCUIT CIRCUIT |
| :---: | :---: | :---: |
| 37 | NE18-2AX | DPST |
| 38 | NE18-2UX | DPDT |
| 51 | $2 \mathrm{U}+\mathrm{NE} 18-2 \mathrm{AX}$ | DPST* |
| 52 (4A/64) | NE18CTII - 2AX | DPST |
| 39 | $2 \mathrm{U}+\mathrm{NE} 18-2 \mathrm{X}$ | DPDT* |
| 41 | NE18-2AP | DPST |
| 42 | NE18-2UP | DPDT |
| 43 | NE18-2AW | DPST |
| 44 | NE18-2UW | DPDT |
| 45 | NE18-2ASX | DPST |

* 2 U + Denotes auxiliary set of low current contacts DPDT
$2 \mathrm{~A}=\mathrm{DPST}$
$2 \mathrm{~A}=\mathrm{DPST}$
$2 \mathrm{U}=$ DPDT
$\mathrm{S}=$ Snap-in mounting
$\mathrm{X}=$ Solder lug/PC pins
W = Solder lugs only
$P=P C$ pins only

| OPTION CODE <br> Contact capacity <br> and availability | STYLE | ELECTRICAL <br> CIRCUIT |
| :---: | :---: | :---: |
| 46 | NE18 -2 USX | DPDT |
| 47 | NE18 -2 ASP | DPST |
| 48 | NE18 -2 USP | DPDT |
| 49 | NE18 -2 ASW | DPST |
| 50 | $2 U+$ NE18CTII $-2 A X$ | DPST |
| $53(4 \mathrm{~A} / 64)$ | $2 U+$ NE18 -2 AP | DPDT |
| 54 | $2 U+$ NE18 $-2 U W$ | DPST |
| 55 | $2 U+$ NE18 $-2 U P$ | DPDT |
| 56 | DPDT |  |
| 57 |  |  |

## NOTES

1. Contact plating is silver on all Power Switches
2. Contact plating is silver on all Power Switches.
3. The electrical function is Break Before Make (BBM) on all Power Switches.
4. The terminals will be epoxy sealed.

| TYPE | POSSIBLE CONTACT ARRANGEMENT |  | CONTACT SPACING | PROTECTION CLASS <br> (CEE 24) | APPROVALS |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | POWER CONTACTS ${ }^{1}$ | AUXILIARY CONTACTS |  |  |  |
| NE18 | $2 A^{2}$ | 2 U | $\begin{gathered} >3 \mathrm{~mm} \\ (.118 \mathrm{inch}) \end{gathered}$ | II | VDE, BSI, DEMKO, NEMKO, SEMKO, SEV, CSA, UL |
| NE18 | $\begin{gathered} 2 \mathrm{~A}^{2} \\ 2 \mathrm{U} \end{gathered}$ | 2 U | $>3 \mathrm{~mm}$ (m) <br> (. 118 inch) | 1 | VDE, MEEI, BSI3, DEMKO, NEMKO, SEMKO, SEV, CSA, UL |
| NE18CTII | $2 A^{2}$ | 2 U | $\begin{gathered} >3 \mathrm{~mm} \\ (.118 \text { inch }) \end{gathered}$ | II | VDE, BSI, DEMKO, CSA, SEMKO, SEV, UL, NEMKO |

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

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

## SINGLE STATION CHASSIS $\square$ 뭄 $\square$

01 WITH . 094 MOUNTING HOLES


02 WITH 4-40 TAPPED MOUNTING HOLES


03
SPECIAL CHASSIS (CONSULT FACTORY)

## DRESS NUT

(NONE) NO dRESS NUT


PANEL CUTOUT


NOTE: Available with ZNE18 designation and FA200 buttons.

C сhrome


PANEL CUTOUT


NOTE: Available with ZNE18 designation and FG button.

SOLID BUTTON $\square_{\text {STYLE }}^{\square} \square_{\square}^{\text {COLOR }}$

## STYLE

F21 F001


| OPTION CODE | COLOR |
| :---: | :---: |
| 01 | BLACK |
| 02 | WHITE |
| 03 | RED |
| 04 | LT. GRAY |
| 09 | BLACK/CHROME <br> (FO3,FO6 \& FO7 <br> buttons only |

## MECHANICAL BUTTON

$\square$

## STYLE

F01 FA100


F02 FA101



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

