



Product Guide

To The Next
Generation

NIDEC COPAL ELECTRONICS CORP.

Switches

S : SMD type available


Rotary coded switches

S




S-4000
 ● Code: BCD
 ● Contact rating:
 Non-switching 100mA 50VDC
 Switching 100mA 2.4VDC
 ● Contact resistance 100mΩ max.
 ● Dimensions: □4.8×2.6mm

S




SA-7000
 ● Code: BCD, BCH
 ● Contact rating:
 Non-switching 100mA 50VDC
 Switching 100mA 5VDC
 ● Contact resistance 100mΩ max.
 ● Dimensions: □7.2×3mm

S




S-7000 **WASHABLE**
 ● Code: BCD, BCH
 ● Contact rating:
 Non-switching 100mA 50VDC
 Switching 100mA 5VDC
 ● Contact resistance 100mΩ max.
 ● Dimensions: □7.2×2.9mm

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SH-7000 **WASHABLE**
 ● Code: BCD, BCH
 ● Contact rating:
 Non-switching 100mA 50VDC
 Switching 100mA 5VDC
 ● Contact resistance 100 mΩ max.
 ● Dimensions: 7.3×7.1×3.7~3.75mm
 ● Gray code output available

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DRS/DRR/SMR/SMRR **WASHABLE**
 ● Code: BCD, BCH
 ● Contact rating:
 Non-switching 100mA 50VDC
 Switching 30 mA 15VDC
 ● Dimensions: □7.5×4.1mm

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S-1000A/2000A **WASHABLE**
 ● Code: BCD, BCH
 ● Contact rating:
 Non-switching 100mA 50VDC,
 Switching 100mA 5VDC
 ● Dimensions: □10×7mm

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SC-1000/2000 **WASHABLE**
 ● Code: BCD, BCH
 ● Contact rating:
 Non-switching 100 mA 50VDC,
 Switching 100mA 5VDC
 ● Terminal pin layout 4-1
 ● Dimensions: □10×3.9mm

S



SD-1000/2000
 ● Code: BCD, BCH
 ● Contact rating:
 Non-switching 100 mA 50VDC,
 Switching 100mA 5VDC
 ● Terminal pin layout 3-3
 ● Heat resism knob type available (MTO)
 ● Dimensions: □10×3.9mm

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SA-5000 **WASHABLE**
 ● Code: BCD, BCH
 ● Contact rating:
 Non-switching 100mA 50VDC,
 Switching 100mA 5VDC
 ● Integrated circuit: Pull-up
 resistors, diodes
 ● Dimensions: □11×9.5mm

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S-8000 **WASHABLE**
 ● Code: BCO
 ● SCS compatible
 ● Contact rating:
 Non-switching 100mA 50VDC,
 Switching 100mA 5VDC
 ● Dimensions: □7.2×3.9mm


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RD **WASHABLE**
 ● Code: Binary code
 ● Contact rating:
 Switching 1VA (1A 30VDC max.)
 ● Dimensions: 17.8×12×17.8mm

Dip slide switches

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CVS(1mm pitch)
 ● No. of bits: 1,2,3,4,8 bits
 ● Contact rating:
 Non-switching 100mA 50VDC,
 Switching 100mA 6VDC, 25mA 24VDC
 ● Contact resistance: 200mΩ max.
 ● Dimensions: 4.7×2~9×1.45mm

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CHS(Half pitch) **WASHABLE**
 ● No. of bits: 1, 2, 4, 6, 8, 10 bits
 ● Contact rating:
 Non-switching 100mA 50VDC,
 Switching 100mA 6VDC, 25mA 24VDC
 ● Contact resistance: 50mΩ max.
 ● Dimensions: 5.4×2.5~14.3×2.5mm

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CHP(Half pitch)
 ● No. of bits: 2, 4, 8 bits
 ● Contact rating:
 Non-switching 100mA 50VDC,
 Switching 100mA 6VDC, 25mA 24VDC
 ● Contact resistance: 50mΩ max.
 ● Dimensions: 5.9×4.6~12.2×4.6mm

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CFS(Full pitch) **WASHABLE**
 ● No. of bits: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10 bits
 ● Contact rating:
 Non-switching DC50V 100mA,
 Switching DC6V 100mA, DC24V 25mA
 ● Contact resistance: 50mΩ max.
 ● Dimensions: 6.4×3.95~26.9×4.5mm

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CFP(Full pitch)
 ● No. of bits: 2, 3, 4, 5, 6, 8, 10bits
 ● Contact rating:
 Non-switching 100mA 50VDC,
 Switching 100mA 6VDC, 25mA 24VDC
 ● Contact resistance: 50mΩ max.
 ● Dimensions: 8.6×7.5~22.8×6.7mm

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CYP(Full pitch, Low profile) **WASHABLE**
 ● No. of bits: 2, 4, 6, 8, 10 bits
 ● Contact rating:
 Non-switching 100mA 50VDC,
 Switching 100mA 6VDC, 25mA 24VDC
 ● Contact resistance: 100mΩ max.
 ● Dimensions: 6×6.48~26.8×5mm


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CES(Full pitch, Tall profile)
 ● No. of bits: 2, 4, 6, 8 bits
 ● Contact rating:
 Non-switching 100mA 50VDC,
 Switching 100mA 6VDC, 25mA 24VDC
 ● Contact resistance: 50mΩ max.
 ● Dimensions: 10×7.66~22.9×10mm


Slide switches

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CJS **WASHABLE**
 ● Ideal for replacing jumper pins
 ● Circuit structure: SPDT
 (with neutral detent type available)
 ● Contact rating:
 Non-switching 100mA 50VDC,
 Switching 100mA 6VDC, 25mA 24VDC
 ● Contact resistance: 70mΩ max.
 ● Dimensions: 2.5×5.4~6×2.5mm

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CAS **WASHABLE**
 ● Ideal for replacing jumper pins
 ● Circuit structure: SPDT
 SPDT/2PDT/Dual SPDT
 ● Contact rating:
 Non-switching 100mA 50VDC,
 Switching 100mA 6VDC, 25mA 24VDC
 ● Contact resistance: 50mΩ max.
 ● Dimensions: 2.5~3.9×5.4×2.5mm

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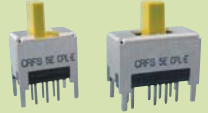
CL-SA
 ● Ideal for replacing jumper pins
 ● Continuous mountable with 2.54 mm pitch
 ● Circuit structure: SPDT
 ● Contact rating:
 Non-switching 500mA 50VDC,
 Switching 500mA 12VDC
 ● Contact resistance: 22mΩ max.
 ● Mounting Type PC, PC-R/A
 ● Dimensions: 2.54×10×4.5mm

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CL-SB
 ● Wide variety 48 types, silver/gold contact
 ● Circuit structure:
 SPDT/SP3T/2PDT/2P3T
 ● Contact rating: Non-switching
 200mA 50VDC, Switching 200mA 12VDC
 ● Contact resistance:
 Silver 50mΩ max. Gold 70mΩ max.
 ● Dimensions: 3.5×8.5~12×3.5mm

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CRFS
 ● High frequency: DC ~1.0GHz
 ● Circuit structure: 2PDT/2P3T
 ● Contact rating:
 Non-switching 100mA DC50V,
 Switching 100mA 12VDC
 ● Contact resistance: 70mΩ max.
 ● Dimensions: 6~6.5×10~13.8×8.5mm

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CMS
 ● Circuit structure:
 2PDT/2P3T/2P4T/4PDT
 ● Contact rating:
 Non-switching 100mA 50VDC,
 Switching 100mA 12VDC
 ● Contact resistance: 70mΩ max.
 ● Dimensions: 5×10.8~17.8×3.5~4.7mm

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CUS
 ● Circuit structure:
 SPDT/SP3T/2PDT/SP4T
 ● Contact rating:
 Non-switching 100mA DC50V
 Switching 300mA 4VDC
 ● Contact resistance 70mΩ max.
 ● Low-profile of 1.4mm
 ● Dimensions: 2.6~4.1×6.7~11.3×2mm

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CSS
 ● Circuit structure: SPDT/SP3T
 ● Contact rating:
 Non-switching 100mA 50VDC
 Switching 100mA 12VDC
 ● Contact resistance 70mΩ max.
 ● Low-profile of 2.0mm
 ● Self-return type available
 ● Dimensions: 3.8×8.5~12.5×2mm

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MHS
 ● Circuit structure:
 SPDT/SP3T/2PDT/2P3T/4P2T
 ● Contact rating: 200mA 12VDC
 ● Switching function
 On-On-On/On-On
 ● Low-profile of 3.5mm
 ● Dimensions: 3.5×8.6~14×3.5mm

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MFS
 ● Circuit structure:
 SPDT/SP3T/2PDT/2P3T/4P4T
 ● Contact resistance: 20~50mΩ max.
 ● Switching function
 On-On-On/On-On
 ● Shorting/Non-shortng
 ● Wide variety

Slide switches



MCS

- Circuit structure: SPDT/SP3T/2PDT/2P3T 4P2T/6P2T/4P3T/4P4T
- Switching function: On-On/On/On/On/On-Off/On/On-Off/On-Off
- Shorting/Non-shorting
- Wide variety



MCS-N

- Circuit structure: 2PDT/4P2T
- Contact rating: Silver: Switching 0.2A 30VDC Gold: 0.4VA (50mA 30VDC max.)
- Contact resistance: Silver 30mΩ max. Gold 50mΩ max.
- Switching function: On-On
- Dimensions: 6.6×11.2~16.2×5mm



ASE

WASHABLE

- High reliability by twin-contact clip
- Circuit structure: SPDT, 2PDT
- Contact rating: Switching 50mA 48VAC/DC
- Contact material: gold
- UL approved
- Dimensions: 5×9.5×8mm



AS

- High reliability by twin-contact clip
- Circuit structure: SPDT, 2PDT
- Contact rating: Switching 50mA 48VAC/DC
- Contact material: gold
- Dimensions: 5×9.5×8mm



8SS

- High reliable power supply switch
- Circuit structure: SPDT, 2PDT
- Contacts material: Silver/Gold(MTO)
- Contact rating: Switching 6A 125VAC 3A 250VAC, 4A 30VDC/ 25mA 20VDC
- For panel mounting or PCB
- UL approved
- Dimensions: 7.9~12.9×13×8.5mm



HSS

- Circuit structure: SPST/SPDT/2PST/2PDT
- Contact rating: Switching 12A 125VAC, 6A 250VAC (1 pole) 8A 125VAC, 5A 250VAC (2 poles)
- For panel mounting
- Dimensions: 15×21×14mm



S

- Circuit structure: 2PDT
- Contact rating: 8A 125VAC, 4A 250VAC
- Switching function: On-On
- UL approved
- Dimensions: 14×20×10mm



SS

- Circuit structure: SPDT
- Contact rating: 8A 125VAC / 10A 125VAC / 6A 250VAC
- Switching function: Off-On/On-Off/On-Off-On
- Dimensions: 16×29×22mm



ES

- Circuit structure: SPST/SPDT/2PDT
- Contact rating: 25A 125VAC / 25A/12A 250VAC, 15A 125VAC / 15A/7A 250VAC
- For panel mounting
- Dimensions: 16×28.8×15.8mm 19.3×33×19.9mm



SS220K-23

- High inrush: 70A
- Circuit structure: 2PST
- Contact rating: 20A 250VAC
- For built-in use (ex. Electronic tools)
- Melting protection structure
- Dimensions: 14×27.5×19.8mm

Rotary selector switches

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CS-32

WASHABLE

- Circuit structure: SP2T
- Contact rating: Non-switching 0.5VA Switching 100mA 16VDC
- Contact resistance: 2Ω max.
- Dimensions: 3.4×3.4×2mm

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CS-4

WASHABLE

- Circuit structure: SPDT/SP3T/2PDT/SP4T
- Contact rating: Non-switching 0.5VA Switching 100mA 16VDC
- Contact resistance: 100mΩ max.
- Dimensions: 5×4.5×2.3mm

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CS-7

WASHABLE

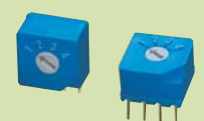
- Circuit structure: SP4T
- Contact rating: Non-switching 100mA 50VDC, Switching 100mA 5VDC
- Contact resistance: 100mΩ max.
- Dimensions: 7.3×7.1×3.75mm



SS-10

WASHABLE

- Circuit structure: SP5T/SP6T/2P3T
- Contact rating: Non-switching 100mA 50VDC, Switching 100mA 5VDC
- Contact resistance: 100mΩ max.
- Dimensions: 10×10×7mm



S-2050

WASHABLE

- Circuit structure: SP4T
- Contact rating: Non-switching 100mA 50VDC, Switching 100mA 5VDC
- Contact resistance: 100 mΩ max.
- Dimensions: 10×10×7mm



RS/RG

WASHABLE

- Circuit structure: 1-3 poles 2-12 contacts, 4-6 poles 2-6 contacts
- Contact rating: 1VA (1A 30VDC max.)
- Contact resistance: 100mΩ max.
- Dimensions: 17.8×12×17.8mm (1block)



MRE(36° step)

- Circuit structure: 1-10, 2-5, 3-3, 4-2
- Contact rating: 500mA 125VAC
- Panel seal
- Dimensions: φ16×15.3mm



MR(30°/36° step)

- Circuit structure: 1-10, 2-5, 3-3, 4-2 (36° step) 1-12, 2-6, 3-4, 4-3 (30° step)
- Contact rating: 500mA 125VAC
- Variable stopper available (36° step)
- Dimensions: φ16×14.5mm



MRB(45° step)

WASHABLE

- Circuit structure: SP3T
- Contact Rating: Switching 0.4VA (12VDC max.)
- Twin contact type
- Gold contacts (for use in dry circuit)
- Dimensions: □15.8×11mm



SRF

- Circuit structure: SPDT (90° step) SP3T/SP4T (45° step)
- Contact Rating: 6A 125VAC / 3A 250VAC (SPDT, SP3T) 1VA (50mA 48VDC max.) (LTM)
- Dimensions: φ28×18.5~20mm

Push-button switches (Illuminated type)



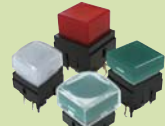
CFPB

- Full surface illumination by LED
- Circuit structure: SPST
- Contact rating: 5mA 5VDC, 1mA 20VDC
- Soft operating feel
- Wide variety of key-top dimensions: □6mm/□9mm/□11mm/□12mm
- Dimensions: □9.9~14.8×12~14mm



13AL/13BL

- Full surface illumination by LED
- Circuit structure: SPST
- Contact rating: 5mA 5VDC, 1mA 20VDC
- Wide variety of key-top dimensions: □6mm/□9mm/□11mm
- Dimensions: □9.9~15×12~14mm



15EL/15GL

- Full surface illumination by LED
- Circuit structure: SPST
- Contact rating: 5mA 5VDC, 1mA 20VDC
- Wide variety of key-top dimensions: □12mm/□14mm/□15mm/□18mm
- With concave face shape clear button-cover available (15GL)
- Dimensions: 15×14×12.5mm



TM/TR

- Ultra-Miniature Switch with LED
- Metal contact / Rubber contact
- Circuit structure: SPST
- Contact rating: 10mA 12VDC(TM) 1VA (50mA 48VDC max.) (TM)
- Contact material: Silver/Gold (TM)
- Wide variety of button's color & style
- Dimensions: 5.9~10.5×7~11.5×6.5mm



LTM/LTR

- Full surface illumination by LED
- Metal contact / Rubber contact
- Circuit structure: SPST
- Contact rating: 10mA 12VDC(LTR) 1VA (50mA 48VDC max.) (LTM)
- Contact material: Silver/Gold (LTM)
- Wide variety of button's color & style
- Dimensions: □8×6.5mm



LTM3

- Connector wiring
- Snap-in panel mounting
- Sharp operating feel
- Circuit structure: SPST
- Contact rating: 1VA (50mA max 48VDC max.)
- Contact material: Silver/Gold
- Dimension: 12×11.5×13.5mm



TP/TPL

- Circuit structure: 2PDT
- Contact rating: 0.1A 30VDC
- Contact material: Silver/Gold
- TPL: Lock type (stroke: 1mm) PL: Non-lock type (stroke: 1.5mm)
- Wide variety of button's color & style
- Dimensions: 8.5×7.5×6.5mm



LP

- Full face illumination by LED
- Circuit structure: SPDT/2PDT
- Contact rating: 3A 125VAC / 3A 250VAC / 3A 30VDC, 0.4VAC/DC (Gold contacts)
- LED illuminated / LED indicator
- For panel Snap-in mounting or PCB
- UL, CSA approved (except indicator)
- Dimensions: 15.2~19×15.2×10mm



DP1~3

- Circuit structure: SPST/4PST
- Contact rating: 50mA 24VDC
- Contact material: Silver/Gold
- Self-cleaning contact mechanism
- Light operating feel
- Wide variety of button's color & style
- Dimensions: 12.4~19×12.4~17.4×6.5~8.3mm




DP4

- Non-illuminated type
- Circuit structure: 2PDT
- Contact rating: 100mA 5VDC
- Switching function: On-On/On-Mom
- Contact material: Silver/Gold
- Self-cleaning contact mechanism
- Dimensions: □12.6×10.2mm

Push-button switches (Non-illuminated type)


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CFPA **WASHABLE**

- Reflow solderable, Right angle
- Circuit structure: SPDT
- Contact rating: 0.4VA (28VDC max.)
- Contact material: Gold
- Switching function: On-Mom
- Dimensions: 7.5×8.5×5.3mm


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SMAP **WASHABLE**

- Reflow solderable, Right angle
- Circuit structure: SPDT/2PDT
- Contact rating: 0.4VA (28VDC max.)
- Contact material: Gold
- Switching function: On-Mom
- Dimensions: 8.35×11.75×5mm

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FP **WASHABLE**

- Circuit structure: SPDT/2PDT
- Contact rating: 0.4VA (28VDC max.)
- Switching function: On-Mom
- Gold plated contacts
- Terminal: Wavy
- Dimensions: 4.5×7.0×5.4 mm


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CFP2 **WASHABLE**

- Circuit structure: SPDT/2PDT
- Contact rating: 0.4VA (28VDC max.)
- Switching function: On-Mom
- Gold plated contacts
- Terminal: Straight
- Dimensions: 4.5×7.0×5.4 mm


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APE **WASHABLE**

- Circuit structure: SPDT/2PDT
- Contact rating: 0.4VA (50mA 60VAC/DC max.)
- Switching function: On-Mom
- Gold plated contacts
- UL approved
- Dimensions: 5×9.5×8 mm


S



AP

- Circuit structure: SPDT/2PDT
- Contact rating: 0.4VA (50mA 60VAC/DC max.)
- Switching function: On-Mom
- Gold plated contacts
- Dimensions: 5×9.5×8mm


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CF-PD

- Fixed panel by assembly resin nut
- Connector wiring
- Sharp click feeling
- Circuit structure: SPST
- Contact rating: 1 VA (50mA 48VDC max.)
- Switching function: On-Mom
- Dimensions: ϕ 20×16.8mm

S



SP101

- Sharp and light operating feel
- Snap-in panel mounting
- Circuit structure: SPST/SPDT
- Contact rating: 60mA 30VDC
- Contact material: Gold
- Connector wiring, PC terminal available
- Switching function: On-Mom
- Dimensions: 10.5×20×11mm


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SPC103

- Sharp and light operating feel
- Wide variety of button colors
- Snap-in panel mounting
- Circuit structure: SPDT
- Contact rating: 3A AC125V/AC250V/DC30V
- Switching function: On-Mom
- Dimensions: \square 18×14.8mm

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MSP

- Circuit structure: SPST
- Contact rating: Silver contact: 3A 125VAC Gold contact: 25mA 20VDC
- Switching function: On-Mom/Off-Mom
- Small size ● For set/resetting
- Dimensions: ϕ 12×19 mm

S




B series

- Circuit structure: 1~4PDT
- Contact rating: 6A 125VAC / 3A 250VAC / 4A 30VDC
- Contact material: Silver / Gold (MTO)
- Switching function: On-On/On-Mom
- For panel mounting or PCB
- Dimensions: 13×8~22.6×11.7~19.8mm

- UL, CSA approved models available
- Self-extinguishing resin housing
- Wide variety of button styles
- Panel water proof type (8P) *class IP67
- Light and soft operating feel by snap action construction (8R-n/8W-n)
- Snap-in panel mounting (8W-n)

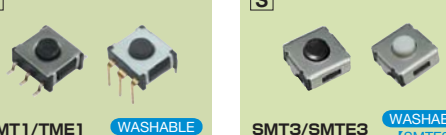
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SP/SPP/S2P

- Circuit structure: SPST/SPDT/2PST/2PDT
- Contact rating: AC125 V 3 A / AC250 V 1 A, AC125 V 10 A / AC250 V 6 A
- Switching function: On-(On)
- UL, CSA approved
- Wide variety of button selections

S



Tactile switches (Non-illuminated type)

SMT1/TME1 **WASHABLE**

- Sharp tactile feel
- Circuit structure: SPST
- Contact rating: 1VA (DC48V 50mA max.)
- Contact material: Silver/Gold
- Switching function: On-Mom
- Anti-static electricity
- Dimensions: 6.5×7.5×3mm

SMT3/SMT3E3 **WASHABLE** **[SMT3E3]**

- Sharp tactile feel
- Circuit structure: SPST
- Contact rating: 0.6VA (DC24V 30mA max.)
- Contact material: Silver/Gold
- Switching function: On-Mom
- Anti-static electricity (SMT3E3)
- Dimensions: 6.8×7×2.5mm


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CF-CA

- Right angle tactile switches
- Circuit structure: SPST
- Contact rating: 1VA (50mA 32VDC max.)
- Contact material: Silver/Gold
- Switching function: On-Mom
- Wide variety of button length
- Dimensions: 3.8×6.7×7mm


S



CL-DA

- Used in A-TCA standard package
- Direction for operation: side
- Circuit structure: SPST
- Contact rating: 100mA 12VDC
- Contacts material: Gold
- Switching function: On-Mom/Off-Mom
- Dimensions: 4×5.7×2mm

S



CL-DB

- Used in μ -TCA standard package
- Direction for operation: top or side
- Circuit structure: SPST
- Contact rating: 1mA 5VDC
- Contacts material: Gold
- Switching function: Off-Mom
- Dimensions: 2.8×3.5×1.95mm


S



CF-DA

- Long stroke: 7.5mm
- Connector wiring
- Snap-in panel mounting
- Circuit structure: SPST
- Contact rating: 100mA 30VDC
- Contacts material: Silver
- Switching function: Off-Mom
- Dimensions: 11×19×13mm


S



SPB101

- Long stroke: 5mm
- Connector wiring
- Snap-in panel mounting
- Circuit structure: SPST
- Contact rating: 50mA 48VDC
- Contacts material: Silver/Gold
- Switching function: On-Mom/Off-Mom
- Dimensions: 9×13.3×12.5mm


S



FL **WASHABLE**

- Ultra-compact type
- Circuit structure: SPDT/2PDT
- Contact rating: 0.4VA (DC28V max.)
- Contact material: gold
- PC, R.A. terminals
- Dimensions: 4.5×7×5.4mm


S



CF-LD

- Light operate feeling and clear visibility in lever design
- Ultra-compact type
- Circuit structure: SPDT
- Contact rating: 0.4VA (0.1A 28VAC/DC max.)
- 3 lever colors: White/Red/Gray
- Dimensions: 7×4.5×7 mm

S



ALE **WASHABLE**

- High reliability by twin-contact clip
- Circuit structure: SPDT/2PDT
- Contact rating: 0.4 VA (50mA 60VAC/DC max.)
- Contact material: gold
- PC and R.A. terminals
- UL approved
- Dimensions: 5×9.5×8mm


S



CF-LA (Dust proof)

- High inrush: 160A
- Circuit structure: SPST/2PST
- Contact rating: 16A 125VAC, 16A 250VAC
- Wide variety of terminal styles (5 kinds)
- Snap-in panel mounting
- C-US UL, UL(TV-6), ENEC approved
- Dimensions: 10.8×27.8×17.8mm

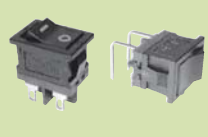
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SLE6 / SLE10 (Dust proof)

- Circuit structure: SPST/SPDT
- Contact Rating: 6A 125VAC / 4A 250VAC(SLE6) 10A 125VAC / 5A 250VAC(SLE10)
- Snap-in panel mounting
- With rubber cover types available
- C-US UL, CSA, VDE, SEMKO approved
- Dimensions: 12.9×18.8×12.5mm

S



SLE210K (Dust proof)

- High inrush: 100A
- Circuit structure: 2PST
- Contact Rating: 10A 125VAC / 10A 250VAC
- Snap-in panel mounting
- C-US UL, VDE, SEMKO approved

S



SL10K

- High inrush: 100A
- Circuit structure: 2PST
- Contact Rating: 10A 125VAC / 6A 250VAC
- Snap-in panel mounting
- UL, CSA, VDE approved

S



SLE10K

- High inrush: 60A
- Panel water proof *class IP64
- Circuit structure: 2PST
- Contact Rating: 10A 125VAC / 6A 250VAC
- Snap-in panel mounting
- UL, CSA, VDE approved

S



SLA215K

- Circuit structure: 2PST
- Contact Rating: 15A 125VAC / 15A 250VAC
- Enhanced isolation structure
- Snap-in panel mounting
- UL, CSA, ENEC approved
- Dimensions: 13×18.8×13mm

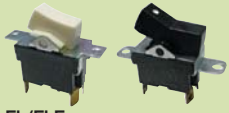
S



ELE120 (Dust proof)

- High inrush: 120A
- Circuit structure: SPST
- Contact rating: 20A 125VAC / 12A 250VAC
- C-US UL approved
- Dimensions: 16~19.5×28.8~33×16~24.6mm

Lever rocker switches



EL/ELE

- Circuit structure: 1~2P1~2T
- Contact Rating: 25/20/15/10A 125VAC, 25/15/12/7A 250VAC
- Self-extinguishing resin housing
- Screw panel mount
- Dust proof (ELE)
- Dimensions: 16~19.3×29~33×22~23.6mm



HLA/HLC/HLS

- Circuit structure: SPST/2PST/3PST/SPDT/2PDT
- Contact Rating: 8A 125VAC, 5A 250VAC, 12A 125VAC, 6A 250VAC
- Self-extinguishing resin housing
- For panel snap-in mounting
- UL, CSA approved
- Dimensions: 15~25×21~28×9~21.5mm



B series

- High reliable power supply switch
- Circuit structure: 1~4PDT
- Contact rating: 6A 125VAC, 3A 250VAC, 4A 30VDC / 25mA 20VDC
- Contacts material: silver/gold (MTO)
- Dimensions: 13×8~22.6×9~17.5mm

- UL, CSA approved models available
- Self-extinguishing resin housing
- Wide variety of actuator styles
- For panel mounting or PCB
- Dust proof type (8HD)
- Snap-in panel mounting type (8H/8HD)

Panel seal rocker switches



CL-LB

- Multifunction and utility switch
- Panel seal (IP68 compatible)
- Switching function: 8 types
- Rich lineup such as illuminated type

- Actuator designed for excellent operability from ergonomics standpoint
- Circuit structure: SPST/SPDT/2PST/2PDT
- Snap-in panel mounting

- Contact rating: 15A 24VDC, 20A 12VDC, 10A 250VAC / 15A 125VAC
- Dimensions: 24.5×48.4×27.4mm

- Applications: Function operation for construction machinery, automobile use, etc.

Toggle switches



FT

WASHABLE

- Ultra-compact type
- Circuit structure: SPDT/2PDT
- Contact rating: 0.4VA (28VDC max.)
- Contact material: Gold
- Terminal: Wavy
- Dimensions: 4.5×7×5.4mm



CFT2

WASHABLE

- Ultra-compact type
- Circuit structure: SPDT/2PDT
- Contact rating: 0.4VA (28VDC max.)
- Contact material: Gold
- Terminal: Straight
- Dimensions: 4.5×7×5.4mm



ATE

WASHABLE

- High reliability by twin-contact clip
- Circuit structure: SPDT/2PDT
- Contact rating: 0.4VA (50mA 60VAC/DC)
- Contact material: Gold
- Terminal pin pitch: 2.54mm
- UL approved (except with cap type)



ATE4/ATLE4

WASHABLE

- High reliability by twin-contact clip
- Circuit structure: SPDT/2PDT
- Contact rating: 50mA 48VAC/DC
- Contact material: Gold
- Lever lock type
- UL approved (except with cap type)



BT

- Circuit structure: SPDT/DPDT
- Contact rating: 50mA 20VAC/DC
- Contact material: Gold
- Insulation resistance 10000MΩ min.
- Dimensions: 7.6~12.7×15.8×8.5mm

S



CF-TA

- Through hall reflow toggle SW (R/A)
- Circuit structure: SPDT
- Contact rating: 50mA 48VAC/DC
- Contact material: gold
- Lever-lock type available
- Dimensions: 8×9.5×5mm

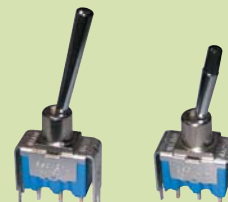


B series

- High reliable power supply switch
- Circuit structure: 1~4PDT
- Contact rating: 6A 125VAC, 3A 250VAC, 4A 30VDC / 25mA 20VDC



- Contacts material: silver/gold (MTO)
- For panel mounting or PCB
- Dimensions: 13×7.9~22.6×9~11.3mm
- UL, CSA approved models available



- Self-extinguishing resin housing
- Wide variety of actuator styles
- Panel water proof type (8F) *class IP67
- Lever-lock type (8E)



WASHABLE [8G, 8GA, 8GD, 8GS]

ET



ET

- Circuit structure: 1~4PST/1~4PDT/6PST/6PDT
- Contact Rating: Switching 3~30A 125VAC, 2~25A 250VAC
- UL, CSA approved models available
- Self-extinguishing resin housing
- For panel mounting
- Dimensions: 16~57×25.5~33.5×14.5~29.2mm

Key switches



MRK/MRKC

- Circuit structure: 1~2P 2~4T
- Contact rating: 0.4VA (20VDC max.)
- Click operation feeling
- MRKC: Cylinder key type
- Dimensions: 14.5×15.8×11.8mm / 15.8×11.8mm (MRKC)



MRK1052B

- High security for the exclusive key
- Circuit structure: SP5T
- Contact rating: 100mA 35VDC
- Connector wiring
- Nut attachment on panel
- Dimensions: φ21.4×25mm

Circuit protectors

Resettable Fuses



PRCP series

- Polymer PTC Thermistors
- Quick rising edge at trip point
- UL, CSA, TÜV approved
- Max. rated voltage (V max.): 6.0~72V
- Hold current: 0.05~13A, Trip current: 0.1~24A
- Max. rated current (I max.): 10~100A
- Min. resistance value (R min.): 0.003~7.3Ω



CR-CP series

- Ceramic PTC Thermistors
- Quick rising edge at trip point
- Operated more than 100,000 times repeatedly
- Max. rated voltage (V max.): 16V *low operating voltage
- Hold current: 470~1550mA, Trip current: 880~2860mA
- Max. rated current (I max.): 2~10A
- Resistance: 0.15~1.0Ω *low resistance



C-FAP series

- Fast response (less than 1 μsec)
- Wide bandwidth (fc=3GHz)
- Small SMD package (DFN)
- Small energy consumption (100nJ)
- UL approved
- Max. trigger current (I trigger max.): 50/100/200/300/500mA
- Max. impulse voltage (V imp): 250/400/500/650/850V



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NIDEC COPAL ELECTRONICS CORP.

7-5-25 Nishi-Shinjuku, Shinjuku-ku, Tokyo 160-0023 JAPAN Phone:+81-3-3364-7055 Fax:+81-3-3364-7098

www.nidec-copal-electronics.com

NIDEC COPAL ELECTRONICS, INC.

367 Van Ness Way, Suite 601
Torrance, CA 90501 U.S.A
Phone:+1-310-618-0225 Fax:+1-310-618-9984

NIDEC COPAL ELECTRONICS (SHANGHAI) CO.,LTD.

Unit A, 4/F, No.4 Bldg., No.253, Ai Du Rd., Wai Gao Qiao
Free Trade Zone, Shanghai 200131, CHINA
Phone:+86-21-5046-3009 Fax:+86-21-5046-3115

NIDEC COPAL ELECTRONICS (TAIWAN) CO., LTD.

18F-1, No.57, Sec.2, Tun Hwa S.Rd., Taipei 106, TAIWAN
Phone +886-2-27030577 Fax:+886-2-27010577

NIDEC COPAL ELECTRONICS GmbH

Mergenthalerallee 79-81
65760 Eschborn GERMANY
Phone:+49-6196-92775-0 Fax:+49-6196-92775-75

NIDEC COPAL ELECTRONICS KOREA CORP.

C- 406,Woolim Lion's Valley 168, Gasan digital,
Geumcheon-gu, Seoul, 08507, KOREA
Phone:+82-2-3482-5861 Fax:+82-2-3482-5860

NIDEC COPAL ELECTRONICS SINGAPORE PTE. LTD.

180B Bencoolen Street #07-05 The Bencoolen Singapore 189648
Phone +65-6535-0056 Fax:+65-6535-0087

Sales agent:



RC MICRO SU PROYECTO. NUESTRA PRIORIDAD

RC MICROELECTRÓNICA, S.A.
info@rcmicro.es www.rcmicro.es

MADRID
Tel. 91 329 55 08 Fax 91 329 45 31

BARCELONA
Tel. (+34) 93 260 21 66 Fax (+34) 93 338 36 02

MUNGIA (Euskadi - Cantabria)
Tel. 946 74 52 26 Fax 946 74 53 27

CASCANTE (Navarra - Aragón)
Tel./Fax: 948 85 07 20

PORTUGAL
Tel. (+351) 220 96 90 11