



Product Guide

To The Next
Generation

NIDEC COMPONENTS

Switches

[S]: Surface mount type available

DIP Rotary switches

[S]



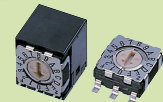
S-4000
 •Positions: 10
 •Code: Real
 •Contact rating:
 Non-switching 100 mA 50 VDC
 Switching 10 mA 2.4 VDC
 •4.8 mm square

[S]



SA-7000
 •Positions: 10 or 16
 •Code: Real or complement
 •Contact rating:
 Non-switching 100 mA 50 VDC
 Switching 100 mA 5 VDC
 •7.2 mm square

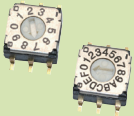
[S]



S-7000
 •Positions: 6, 10 or 16
 •Code: Real or complement
 •Contact rating:
 Non-switching 100 mA 50 VDC
 Switching 100 mA 5 VDC
 •7.2 mm square

[S]

Washable



SH-7000
 •Positions: 10 or 16
 •Code: Real, complement or gray
 •Contact rating:
 Non-switching 100 mA 50 VDC
 Switching 100 mA 5 VDC
 •7.1 mm square

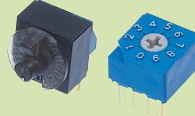
[S]

Washable



DRS/DRR/SMR/SMRR
 •Positions: 10 or 16
 •Code: Real or complement
 •Contact rating:
 Non-switching 100 mA 50 VDC
 Switching 30 mA 15 VDC
 •7.5 mm square

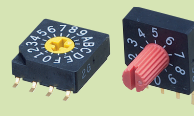
Washable



S-1000A/2000A
 •Positions: 10 or 16
 •Code: Real or complement
 •Contact rating:
 Non-switching 100 mA 50 VDC
 Switching 100 mA 5 VDC
 •10 mm square

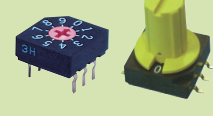
[S]

Washable



SC-1000/2000
 •Positions: 10 or 16
 •Code: Real or complement
 •Contact rating:
 Non-switching 100 mA 50 VDC
 Switching 100 mA 5 VDC
 •10 mm square

[S]



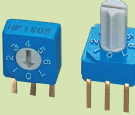
SD-1000/2000
 •Positions: 10 or 16
 •Code: Real or complement
 •Contact rating:
 Non-switching 100 mA 50 VDC
 Switching 100 mA 5 VDC
 •10 mm square

Washable



SA-5000
 •Positions: 10 or 16
 •Code: Real or complement
 •Contact rating:
 Non-switching 100 mA 50 VDC
 Switching 100 mA 5 VDC
 •11 mm square

Washable



S-8000
 •Positions: 8
 •Code: Real or complement
 •Contact rating:
 Non-switching 100 mA 50 VDC
 Switching 100 mA 5 VDC
 •7.2 mm square

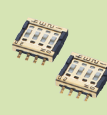
Washable



RD
 •Positions: 8 or 12
 •Code: Real or complement
 •Contact rating:
 Switching 1 A 30 VDC
 •17.8 x 12 x 17.8 mm

DIP switches

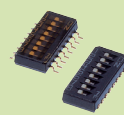
[S]



CVS (1 mm pitch)
 •Positions: 1, 2, 3, 4 or 8
 •Contact rating:
 Non-switching 100 mA 50 VDC
 Switching 100 mA 6 VDC, 25 mA 24 VDC
 •4.7 x 2 ~ 9 x 1.45 mm

[S]

Washable



CHS (Half pitch)
 •Positions: 1, 2, 4, 6, 8 or 10
 •Contact rating:
 Non-switching 100 mA 50 VDC
 Switching 100 mA 6 VDC, 25 mA 24 VDC
 •5.4 x 2.5 ~ 14.3 x 2.5 mm

[S]



CHP (Half pitch)
 •Positions: 2, 4 or 8
 •Contact rating:
 Non-switching 100 mA 50 VDC
 Switching 100 mA 6 VDC, 25 mA 24 VDC
 •5.9 x 4.6 ~ 12.1 x 4.6 mm

[S]

Washable



CFS (Full pitch)
 •Positions: 1 ~ 10 available
 •Contact rating:
 Non-switching 100 mA 50 VDC
 Switching 100 mA 6 VDC, 25 mA 24 VDC
 •6.4 x 3.95 ~ 2.69 x 4.5 mm

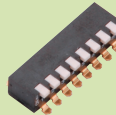
[S]



CFP (Full pitch)
 •Positions: 2, 3, 4, 5, 6, 8 or 10
 •Contact rating:
 Non-switching 100 mA 50 VDC
 Switching 100 mA 6 VDC, 25 mA 24 VDC
 •8.6 x 7.5 ~ 22.8 x 6.7 mm

[S]

Washable



CYP (Full pitch)
 •Positions: 2, 4, 6, 8 or 10
 •Contact rating:
 Non-switching 100 mA 50 VDC
 Switching 100 mA 6 VDC, 25 mA 24 VDC
 •6 x 6.48 ~ 26.8 x 5 mm

[S]



CES (Full pitch)
 •Positions: 2, 4, 6, 8 or 8
 •Contact rating:
 Non-switching 100 mA 50 VDC
 Switching 100 mA 6 VDC, 25 mA 24 VDC
 •10 x 7.66 ~ 22.9 x 10 mm

Slide switches

[S]

Washable



CJS
 •Ideal for replacing jumper pins
 •Circuits: 1; On-On, On-Off-On
 •Contact rating:
 Non-switching 100 mA 50 VDC
 Switching 100 mA 6 VDC, 25 mA 24 VDC

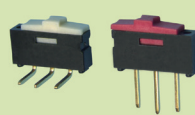
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Washable



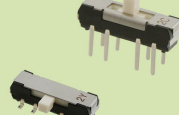
CAS
 •Ideal for replacing jumper pins
 •Circuits: 1, 2 or Dual; On-On
 •Contact rating:
 Non-switching 100 mA 50 VDC
 Switching 100 mA 6 VDC, 25 mA 24 VDC

[S]



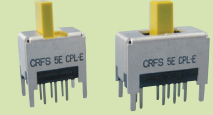
CL-SA
 •Circuits: 1; On-On
 •Contact rating:
 Non-switching 500 mA 50 VDC
 Switching 500 mA 12 VDC
 •Side by side mounting possible

[S]



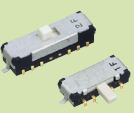
CL-SB
 •Circuits: 1 or 2; On-On, On-Off-On
 •Contact rating:
 Non-switching 200 mA 50 VDC
 Switching 200 mA 12 VDC
 •Gold/silver contacts, Wide variety lineup

[S]



CRFS
 •DC~1GHz frequency spectrum
 •Circuits: 2; On-On, On-On-On
 •Contact rating:
 Non-switching 100 mA 50 VDC
 Switching 100 mA 12 VDC

[S]



CMS
 •Circuits: 2 or 4; On-On and more
 •Contact rating:
 Non-switching 100 mA 50 VDC
 Switching 100 mA 12 VDC

[S]



CUS
 •Circuits: 1 or 2; On-On and more
 •Contact rating:
 Non-switching 100 mA 50 VDC
 Switching 300 mA 4 VDC

[S]



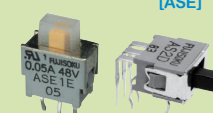
CSS
 •Circuits: 1; On-On, On-Mom and more
 •Contact rating:
 Non-switching 100 mA 50 VDC
 Switching: 100 mA 12 VDC

[S]



MFS
 •Circuits: 1, 2 or 4; On-On and more
 •Contact rating: Refer to webpage
 •Shorting or Non-shorting contacts
 •Wide variety of current ratings

Washable
[ASE]



ASE/AS
 •Circuits: 1 or 2; On-On, On-Off-On
 •Contact rating: ASE-UL) 50 mA
 48 VAC/DC, AS: 60 mA 60 VAC/DC
 •Terminal style: PC straight, 0.2"/0.3"
 right angle •Gold Contacts
 •UL certified (ASE)

Slide switches

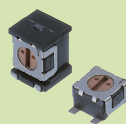


- 8SS**
- Circuits: 1 or 2; On-On; On-Off-On
 - Contact ratings: Silver: 6 A 125VAC
 - UL recognized
 - PC or solder lug terminals

Rotary selector switches

[S]

Washable



- CS-32**
- 1 pole 3 positions
 - Contact rating: Non-switching 0.5 VA Switching 100 mA 16 VDC
 - 3.4 mm square

[S]

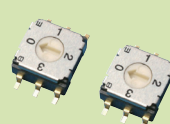
Washable



- CS-4**
- 1 or 2 poles 2, 3 or 4 positions
 - Contact rating: Non-switching 0.5 VA Switching 100 mA 16 VDC
 - 4.5 × 5 mm

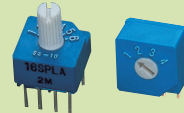
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Washable



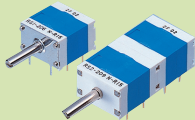
- CS-7**
- 1 pole 4 positions
 - Contact rating: Non-switching 100 mA 50 VDC Switching 100 mA 5 VDC
 - 4.5 × 7.3 mm

Washable



- SS-10/S-2050**
- SS-10: 1 pole 3, 5, 6 positions; 2 poles 3 positions / S-2050: 1 pole 4 positions
 - Contact rating: Non-switching 100 mA 50 VDC Switching 100 mA 5 VDC
 - 10 mm square

Washable



- RS/RG**
- Poles and positions: 1 ~ 3 poles: 2 thru 12 positions 4 ~ 6 poles: 2 thru 6 positions
 - Contact rating: 1 A 30 VDC
 - Shorting or non-shorting



- MR**
- 1 pole 10 positions, 2 poles 5 positions
 - Contact rating: 500 mA 125 VAC
 - 36° angle of throw
 - 16 mm diameter
 - Variable stopper available

Washable

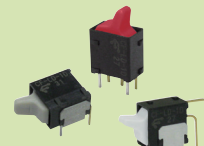


- MRB**
- 1 pole 3 positions
 - Contact rating: 0.4 VA 12 VDC
 - 45° angle of throw



- SRF**
- 1 pole 2, 3 or 4 positions
 - Contact rating: 2 and 3 Positions: 6 A 125 VAC and 3 A 250 VAC / 4 Positions: 3 A 125 VAC and 1 A 250 VAC

Lever switches



- CF-LD**
- Circuit: 1 pole; On-On
 - Contact rating: 0.4 VA, 28 VAC/DC
 - Straight, right angle or vertical PC terminal
 - Gold Contacts
 - Ultra-miniature

Lever/Rocker switches

Washable



- FL**
- Circuits: 1 or 2 poles, On-Mom; Mom-Off-Mom; On-Off-On; On-On and more
 - Contact rating: 0.4 VA, 28 VDC
 - Terminal style: PC straight, right angle or vertical
 - Gold Contacts

Washable



- ALE**
- Circuits: 1 or 2 poles; On-Mom, On-Off-Mom, On-On, On-Off-On, Mom-Off-Mom
 - Contact rating: 50 mA 60 VAC/DC
 - Terminal style: PC Straight or right angle
 - Gold contacts
 - UL certified



- 8 Series**
- Circuits: 1 thru 4 poles, On-On; Off-On; Mom-Off-Mom; On-Mom
 - Solder lug or PC terminals
 - Contact rating: Silver: 3 A 250 VAC; 6 A 125 VAC; 4 A 30 VDC; Gold: 25 mA 20 VDC
 - UL recognized, CSA certified

Rocker switches



- ETW** (Environmentally sealed rockers)
- Circuits: 1 pole; On-Off, On-On, On-Off-On, Mom-Off-Mom
 - Contact rating: 15 A 127 V~ 25E3, 10 A 250 V~ 25E3
 - cULus recognized
 - Front panel seal: IP67, Behind panel seal: IP60, Epoxy sealed terminals



- SLP8A**
- Circuits: 1 pole; Off-On
 - Contact rating: 8 A 127 VAC; 4 A 250 VAC
 - Quick connect terminals
 - Compact size and long life
 - cULus, CQC and ENEC certified

SLE6/SLE10

- Circuits: 1 or 2 poles; On-Off
- Contact rating: 6 A 125 VAC; 4 A 250 VAC / 10 A 125 VAC; 5 A 250 VAC
- Right angle PC, solder lug or quick connect terminals
- cULus, CSA, VDE and SEMKO certified

SLE210K

- Circuits: 2 poles; On-Off
- Contact rating: 10 A 125/250 VAC
- High inrush ratings: 60 A and 100 A at 125/250 VAC
- Left or right angle PC, solder lug or quick connect terminals
- cULus and SEMKO certified

SL10K

- Circuits: 2 poles; On-Off
- Contact rating: 10 A 125/250 VAC
- High inrush ratings: 60 A and 100 A at 125/250 VAC
- Quick connect terminals
- UL, CSA and VDE certified

SLE10K

- Circuits: 2 poles; On-Off
- Contact rating: 10 A 125 VAC, 6 A 250 VAC
- High inrush ratings: 60 A at 125 VAC, 36 A at 250 VAC
- Quick connect terminals
- UL, CSA and VDE certified
- Panel seal: IP64

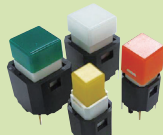
CF-LA

- Circuits: 1 or 2 poles; On-Off
- Contact rating: 16 A 125/250 VAC
- High inrush ratings: 160 A
- Straight PC, right or left angle PC, solder lug or quick connect terminals
- cULus, UL (TV-8), ENEC certified

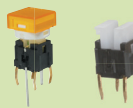
Illuminated switches (Pushbutton)



- HLS**
- Circuits: 1 thru 3 poles; On-On, Off-On
 - Contact rating: 8 A 125 VAC; 12 A 125 VAC; 5 A 250 VAC; 6 A 250 VAC
 - Solder or quick connect terminals
 - UL recognized, CSA certified



- CFPB**
- Circuit: SPST; Off-Mom
 - Contact rating: 5 mA 20 VDC
 - Red, orange, yellow or green LED
 - 6 mm, 9 mm, 11 mm and 12 mm square cap sizes / Red, orange, white clear, blue, green and yellow colored caps available



- LTM/LTR**
- Circuit: SPST; Off-Mom
 - Contact rating: 10 mA 12 VDC (LTR), 50 mA 48 VDC (LTM)
 - Illuminated (normal or bright LED) / Non-illuminated
 - Red, yellow or green LED
 - Wide variety of cap styles, colors

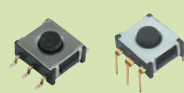


- TP/TPL**
- Circuit: DPDT; On-Mom or On-On
 - Contact rating: 0.1 A 30 VDC
 - Illuminated or non-illuminated
 - Alternate action option
 - Red, yellow or green LED
 - Wide variety of cap styles, colors

Tactile switches

[S]

Washable



- SMT1/TME1**
- Circuit: 1 pole; Off-Mom
 - Contact rating: 50 mA 48 VDC
 - Gold or silver Contacts
 - Gull wing SMT terminals on SMT1
 - Straight PC terminals on TME1
 - Sharp tactile feel

Tactile switches

[S]

Washable [SMTE3]



- SMT3/SMTE3**
- Poles: 1
 - Circuit: Off-Mom
 - Contact rating: 30 mA 24 VDC
 - Gold or silver contacts
 - J-hook SMT terminals
 - Sharp tactile feel

[S]

Washable



- CF-CA**
- Poles: 1 or 2
 - Circuit: Off-Mom
 - Contact rating: 50 mA 32 VDC
 - Gold or silver contacts
 - Gull wing right angle SMT terminals
 - 3 actuator lengths available

Pushbutton switches

Washable



- FP/CFP2**
- Poles: 1 or 2
 - Circuits: On-Mom
 - Contact rating: 0.4 VA, 28 VDC
 - Terminal style: PC straight, right angle or vertical
 - Terminal pins: Kinked/Straight

Washable [APE]



- APE/AP**
- Circuits: 1 or 2 poles; Off-Mom (AP only), On-Mom
 - Contact rating: UL) 50 mA 48 VAC/DC
 - Terminal style: 0.2" right angle (APE only), 0.3" right angle, PC straight
 - Gold Contacts
 - UL certified (APE)

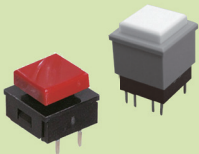
[S]

Washable



- CFPA**
- Poles: 1
 - Circuits: On-Mom
 - Contact rating: 0.4 VA 28 VDC max
 - Right angle gull wing terminals
 - Gold Contacts

Pushbutton switches



DP1&2/DP4

- Circuits: 1 pole; Off-Mom (DP1&2), 2 poles×2; On-Mom (DP4)
- Contact rating: 50 mA 24 VDC (DP1&2), 100 mA 5 VDC (DP4)
- Gold or silver contacts



CF-PD

- Circuits: 1 pole; Off-Mom
- Contact rating: 50 mA 48 VDC; 1 VA
- Solidly design with an assembly nut
- One-touch fitting by connector



SP101

- Circuits: 1 pole; Off-Mom, On-Mom
- Contact rating: 1 VA 48 VDC
- Sharp and light tactile feel
- Compatible with PC board mount and Snap-in panel mount



MSP

- Circuits: 1 pole; On-Mom(Off), Off-Mom
- Contact rating: 3 A 125 VAC
- For set and reset



8 Series

- Circuits: 1-4 poles; On-On, On-Mom
- Contact rating: 3 A 250 VAC, 6 A 125 VAC / 4 A 30 VDC
- UL recognized, CSA certified
- Wide variety of actuators

Detect switches

[S]



CL-DA

- Circuits: 1 pole; On-Mom, Off-Mom
- Contact rating: 100 mA 12 VDC
- Side actuated
- Gull wing SMT terminals
- Used in A-TCA standard package

[S]



CL-DB

- Circuits: 1 pole; Off-Mom
- Contact rating: 1 mA 5 VDC
- Top or side actuated
- Gull wing SMT terminals
- Used in μ -TCA standard package



CF-DA

- Circuits: 1 pole; Off-Mom
- Contact rating: 100 mA 30 VDC
- One-touch fitting by connector
- Snap-in panel mount
- Long stroke 7.5 mm (full stroke)

Toggle switches

Washable



FT/CFT2

- Circuits: 1 or 2 poles; On-Mom, Mom-Off-Mom, On-On, On-Off-On
- Contact rating: 0.4 VA, 28 VDC
- Terminal style: PC straight, right angle or vertical
- Gold contacts
- Terminal pins: Kinked/Straight

Washable



ATE

- Circuits: 1 or 2 poles; On-On, Mom-Off-Mom, On-Off-Mom, On-Off-On, On-Mom
- Contact rating: UL) 50 mA 48 VAC/DC
- Terminal style: PC straight, 0.2"/0.3" right angle
- Gold Contacts
- UL certified

Washable



ATE4/ATLE4

- Circuits: 2 or 4 poles; On-On, On-Off-On
- Contact rating: 50 mA 48 VAC/DC
- Terminal style: PC straight, 0.2"/0.3" right angle
- Locking lever (ATLE4)
- Gold contacts
- UL certified

[S]



CT-TA

- Circuits: 1 pole; On-Mom, Mom-Off-Mom, On-Off-Mom, On-Off-On, On-On
- Contact rating: 50 mA 48 VAC/DC
- Right angle SMT terminals
- Gold contacts
- Reflow solderable/locking lever option



8 Series

- Circuits: 1-4 poles; On-Mom, On-On, On-Off-On, Mom-Off-Mom, On-Off-Mom
- Contact rating: 3 A 250 VAC, 6 A 125 VAC / 4 A 30 VDC / 60 mA 30 VDC
- UL recognized, CSA certified



ETW (Environmentally sealed toggles)

- Circuits: 1 pole; On-Off, On-On, On-Off-On, Mom-Off-Mom
- Contact rating: 15 A 127 V~ 25E3, 10 A 250 V~ 25E3
- cULUS recognized
- Front panel seal: IP67, Behind panel seal: IP60, Epoxy sealed terminals



ET

- Circuits: 1, 2, 3, 4 or 6 poles; Multiple circuit options
- Contact rating: 3 A 125 VAC thru 30 A 125 VAC; 3 A 250 VAC thru 25 A 250 VAC
- Solder lug, quick connect and screw terminal options

Trimmer Potentiometers

[S]: Surface mount type available

[S]

Washable

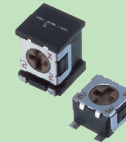


ST-2

- Turns: 1
- Resistance range: 100 Ω ~ 1 M Ω
- Resistance tolerance: \pm 20%
- Power rating: 0.1W (70°C), 0W (125°C)
- J-hook or gull wing SMT terminals
- Top adjustment

[S]

Washable

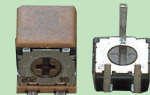


ST-32

- Turns: 1
- Resistance range: 10 Ω ~ 2 M Ω
- Resistance tolerance: \pm 20%
- Power rating: 0.125W (70°C), 0W (125°C)
- J-hook or gull wing SMT terminals
- Top adjustment or side adjustment

[S]

Washable



ST-4/42

- Turns: 1
- Resistance range: 10 Ω ~ 2 M Ω
- Resistance tolerance: \pm 20%
- Power rating: 0.25W (70°C), 0W (125°C)
- Straight PC or J-hook or gull wing SMT terminals
- Top, rear or side adjustment

[S]

Washable



ST-5

- Turns: 14
- Resistance range: 10 Ω ~ 2 M Ω
- Resistance tolerance: \pm 10%
- Power rating: 0.25W (70°C), 0W (120°C)
- Gull wing SMT terminals
- Top adjustment or side adjustment

[S]

Washable



ST-7

- Turns: 3
- Resistance range: 50 Ω ~ 1 M Ω
- Resistance tolerance: \pm 20%
- Power rating: 0.25W (70°C), 0W (125°C)
- J-hook or gull wing SMT terminals
- Top adjustment

[S]

Washable

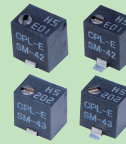


SM-3/31

- Turns: SM-3 have 11 turns; SM-31 have 5 turns
- Resistance range: 50 Ω ~ 2 M Ω
- Resistance tolerance: \pm 20%
- Power rating: 0.125W (70°C), 0W (150°C)
- J-hook or gull wing SMT terminals
- Top adjustment or side adjustment

[S]

Washable

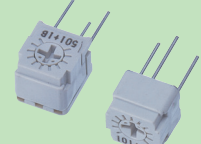


SM-42/43

- Turns: SM-42 have 11 turns; SM-43 have 5 turns
- Resistance range: 10 Ω ~ 2 M Ω
- Resistance tolerance: \pm 10%
- Power rating: 0.25W (85°C), 0W (150°C)
- J-hook or gull wing SMT terminals
- Top adjustment or side adjustment

[S]

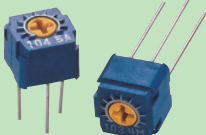
Washable



FT-63

- Turns: 1
- Resistance range: 10 Ω ~ 2 M Ω
- Resistance tolerance: \pm 10%
- Power rating: 0.5W (70°C), 0W (125°C)
- Straight PC terminals
- Top or side adjustment

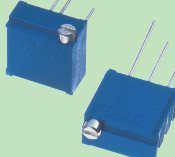
Washable



CT-6

- Turns: 1
- Resistance range: 10 Ω ~ 2 M Ω
- Resistance tolerance: \pm 10%
- Power rating: 0.5W (70°C), 0W (120°C)
- Straight PC terminals
- Top or side adjustment

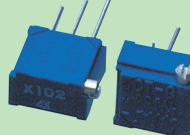
Washable



CT-94

- Turns: 18
- Resistance range: 10 Ω ~ 2 M Ω
- Resistance tolerance: \pm 10%
- Power rating: 0.5W (70°C), 0W (125°C)
- Straight PC terminals
- Top or side adjustment

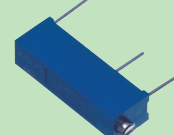
Washable



CT-9

- Turns: 18
- Resistance range: 10 Ω ~ 2 M Ω
- Resistance tolerance: \pm 10%
- Power rating: 0.5W (70°C), 0W (120°C)
- Straight PC terminals
- Top or side adjustment

Washable



CT-20

- Turns: 15
- Resistance range: 10 Ω ~ 5 M Ω
- Resistance tolerance: \pm 10%
- Power rating: 0.5W (70°C), 0W (120°C)
- Straight PC terminals
- Side adjustment

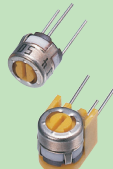
Washable



TM-7

- Turns: 3
- Resistance range: 50 Ω ~ 2 M Ω
- Resistance tolerance: \pm 10%
- Power rating: 0.5W (70°C), 0W (120°C)
- Straight PC terminals
- Top or side adjustment

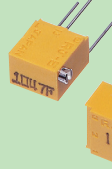
Washable



RJ-4

- Turns: 1
- Resistance range: 10 Ω~2 MΩ
- Resistance tolerance: ±10%
- Power rating: 0.5W (70°C), 0W (120°C)
- Straight PC terminals
- Top or side adjustment

Washable



RJ-5

- Turns: 14
- Resistance range: 10 Ω~2 MΩ
- Resistance tolerance: ±10%
- Power rating: 0.25W (85°C), 0W (120°C)
- Straight PC terminals
- Top or side adjustment

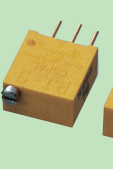
Washable



RJ-6

- Turns: 1
- Resistance range: 10 Ω~5 MΩ
- Resistance tolerance: ±10%
- Power rating: 0.5W (70°C), 0W (120°C)
- Straight PC terminals
- Top, rear or side adjustment


Washable



RJ-9

- Turns: 18
- Resistance range: 10 Ω~5 MΩ
- Resistance tolerance: ±10%
- Power rating: 0.5W (70°C), 0W (120°C)
- Straight PC terminals
- Top or side adjustment

Washable



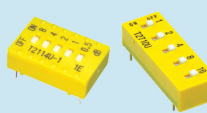
RJ-13

- Turns: 1
- Resistance range: 10 Ω~5 MΩ
- Resistance tolerance: ±10%
- Power rating: 0.75W (70°C), 0W (120°C)
- Straight PC terminals
- Top or side adjustment
- Panel mount version available

Attenuators, Circuit Fuses

[S]: Surface mount type available

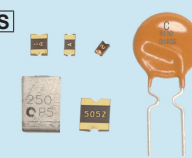
Attenuators



T2114/T2710

- Step type variable attenuator
- Circuit: Unbalanced type (T2710); Unbalanced/Balanced type (T2114)
- Impedance: 600 Ω
- Frequency: DC ~150 kHz
- Attenuation value: 0.5, 1.2, 4.8 dB; 15.5 dB total / 1, 2, 4, 8, 16 dB; 31 dB total

Resettable circuit fuses



P.R.C.P.

- Polymer PTC thermistor
- Slow properly to trip, and not respond at surge or rush current
- Max. Voltage: 6~72VDC, 240VAC
- Hold Current: 0.05~13A
- SMT/Radial leaded types available
- UL recognized, TUV certified

C-FAP

- Integrated MOSFET and current detection circuit; 1 or 2 per package
- Fast response; Less than 1 μsec
- DFN; small SMT package
- Impulse voltage: 250~850 V max
- Small energy consumption (100nJ)
- UL recognized

Pressure Sensors

The products indicated by ★ mark on the upper right are made to order. Contact us separately.

Pressure transducer modules



P-2000

- Pressure range: 0~981 kPa
- Non-corrosive gases
- Power: 1.5mA DC



P-3000S

- Pressure range: 0~686 kPa; 0~±98.1 kPa differential; 0~98.1 kPa absolute
- Non-corrosive gases
- Power: 1.5mA DC



P-8300

- Pressure range: 0~981 kPa; 0~98.1 kPa absolute
- Corrosive gases and liquids
- Power: 1.5mA DC



P-8305/P-8505

- Pressure range: P-8305: 0~10 kPa; P-8505: 0~1000 kPa
- Corrosive gases and liquids
- Power: 1.5mA DC

Pressure transducers with Amp.



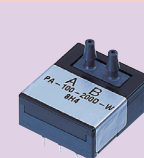
P-7100

- Pressure range: 100 kPa~1.0 MPa; 0~133.3 kPa abs.
- Corrosive gases and liquids
- Output: 0.5~4.5 VDC
- Power: 5~10.5 VDC



PA-20

- Pressure range: 0~100 kPa; -100~300 kPa
- Non-corrosive gases
- Output: 1~5 VDC
- Power: 10.8~30 VDC



PA-100

- Pressure range: -5~5 kPa differential
- Non-corrosive gases
- Output: 0.5~4.5 VDC
- Power: 5 VDC



PA-500

- Pressure range: 0~3.5 MPa; 0~100 kPa; -100~300 kPa; 0~100 kPa absolute
- Corrosive gases and liquids
- Output: 1~5 VDC/4~20 mA
- Power: 10.8~30 VDC/24 VDC



PA-750/758

- Pressure range: 0~3.5 MPa; 0~100 kPa; -100~300 kPa; 0~100 kPa absolute
- Corrosive gases and liquids
- Output: 1~5 VDC/4~20 mA
- Power: 10.8~30 VDC/24 VDC



PA-800

- Pressure range: 0~981 kPa; 0~98.1 kPa
- Corrosive gases and liquids
- Output: 1~5 VDC
- Power: 12~24 VDC



PA-838-D

- Pressure range: 0~100 kPa differential
- Corrosive gases and liquids
- Output: 4~20 mA
- Power: 24 VDC



PA-830/838

- Pressure range: 0~98.1 kPa; 0~98.1 kPa absolute (PA-830), 0~981 kPa (PA-838)
- Corrosive gases and liquids
- Output: 1~5 VDC/4~20 mA
- Power: 12~24 VDC/24 VDC



PA-840/848

- With IP67 degree of protection
- Pressure range: 0~3.5 MPa; -0.1~0.35 MPa; 0~0.1 MPa abs.
- Corrosive gases and liquids
- Output: 1~5 VDC/4~20 mA
- Power: 10.8~26.4 VDC/21.6~26.4 VDC



PA-850/858

- Pressure range: 0~1000 kPa; 0~100 kPa; -100~100 kPa (PA-850 only); -100~300 kPa; 0~100 kPa abs.
- Corrosive gases and liquids
- Output: 1~5 VDC/4~20 mA
- Power: 10.8~30 VDC/24 VDC



PA-860/868

- For high pressure media
- Pressure range: 0~35 MPa
- Hydraulic oil
- Output: 1~5 VDC for PA-860; 4~20 mA DC for PA-868
- Power: 12~24 VDC



PA-920S/928S

- Ideal for gas feed line
- Pressure range: 0~1 MPa; -0.1~1 MPa
- Corrosive gases and liquids
- Output: 1~5 VDC/4~20 mA
- Power: 12~24 VDC/24 VDC



PA-930/930-A

- Suitable for high temp. media (150°C)
- Pressure range: 0~1000 kPa; -100~300 kPa; 0~100 kPa/0~200 kPa abs.
- Corrosive gases and liquids
- Output: 1~5 VDC
- Power: 12~24 VDC



PA-97*-S

- Wide variety for middle-high pressure range
- Pressure range: 0~80 MPa
- Corrosive gases and liquids
- Output: 1~5/0.5~4.5/0~5/0~10 VDC/1~4~20 mA
- Power: 9~36 VDC/5 VDC/14~36 VDC

*Purchased items

Pressure switches

CE



PS20

- Pressure range: 0 ~ -100 kPa; -100 ~ -300 kPa compound
- Non-corrosive gases
- One switch output
- Power: 10.8~30 VDC

CE



PS6

- Pressure range: 0~1000 kPa; 0~-100 kPa
- Non-corrosive gases
- Two or one switch output
- Analog output: 1~5 VDC
- Power: 12~24 VDC
- 2 digit LED display



PS40

- Pressure range: 0~1000 kPa; 0~-100 kPa
- Non-corrosive gases
- Two or one switch output
- Analog output: 1~5 VDC
- Power: 10.8~30 VDC
- Two LED indicators

CE



PS30

- Pressure range: -100~1000 kPa
- Non-corrosive gases
- Two switch output
- Power: 12~24 VDC
- 2.5 digit LED display

CE



PS60

- Pressure range: -100~1000 kPa
- Non-corrosive gases
- Two switch output
- Power: 12~24 VDC
- 3 digit LED display
- DIN rail mountable



PS8

- Pressure range: 0~981 kPa; 0~-98.1 kPa
- Corrosive gases and liquids
- Two switch output
- Power: 12~24 VDC
- Two LED indicators

CE



PS83

- Pressure range: 0~981 kPa; 0~-98.1 kPa; 0~-98.1 kPa abs.
- Corrosive gases and liquids
- Two switch output
- Power: 12~24 VDC
- Two LED indicators



PS85

- Pressure range: -100~1000 kPa; 0~100 kPa abs.
- Corrosive gases and liquids
- Two switch output
- Power: 10.8~30 VDC
- Two LED indicators



PS86

- For high pressure media
- Pressure range: 0~35 MPa
- Corrosive gases and liquids
- One switch output
- Power: 10.8~30 VDC
- Two LED indicators

CE



PS91

- Suitable for high vacuum pressure
- Pressure range: -100~10 kPa
- Corrosive gases and liquids
- Two switch output
- Power: 12~24 VDC
- Two LED indicators

Pressure gauges

CE



PS97

- Wide variety for middle-high pressure range
- Pressure range: 0~80 MPa
- Corrosive gases and liquids
- Two or one switch output
- Output: 1~5/0.5~4.5/0~5/0~10 VDC (4~20 mA)
- Power: 9~36 VDC

*Purchased items

CE



PG-20

- Pressure range: 0~1.0 MPa; -0.1~1.0 MPa
- Corrosive gases and liquids
- Two or one switch output
- Output: 1~5 VDC
- Power: 12~24 VDC
- 3.5 digit LED display

CE



PG-30

- Pressure range: -100~1000 kPa
- Non-corrosive gases
- Two switch output
- Output: 1~5 VDC
- Power: 10.8~30 VDC
- 3 digit LED display

CE



PG-35

- Pressure range: -100~1000 kPa; 0~100 kPa abs.
- Corrosive gases and liquids
- Two switch output
- Output: 1~5 VDC
- Power: 10.8~30 VDC
- 3 digit LED display

CE



PG-35H

- For high pressure media
- Pressure range: -0.1~35 MPa
- Corrosive gases and liquids
- Two switch output
- Output: 1~5 VDC
- Power: 10.8~30 VDC
- 3 digit LED display

CE



PG-35L

- Suitable for high vacuum pressure
- Pressure range: -100~1000 kPa
- Corrosive gases and liquids
- Two switch output
- Output: 1~5 VDC
- Power: 10.8~30 VDC
- 3 digit LED display

CE



PG-75

- Pressure range: -100~100 kPa and -0.1~3.5 MPa; 0~100 kPa and 0~3.5 MPa
- Corrosive gases and liquids
- Two switch output
- Output: 1~5 VDC or 4~20 mA
- Power: 10.8~30 VDC
- 3.5 digit LED display



PG-200/208

- Pressure range: 0~1000 kPa; 0~100 kPa; 0~100 kPa abs. (PG-200 only)
- Corrosive gases and liquids
- Two or one switch output
- Output: 0~1 VDC or 4~20 mA
- Power: 10~24 VDC; 5~10 VDC (PG-200 only) or 3.6 VDC lithium battery
- 3.5 digit LCD display

Handheld digital manometers



PG-100N

- Pressure range: -100~1000 kPa compound
- Non-corrosive gases
- Power: 2 AAA batteries
- 3.5 digit LCD display



PG-100B

- Pressure range: -100~1000 kPa compound; 0~100 kPa absolute
- Corrosive gases and liquids
- Power: 2 AAA batteries
- 3.5 digit LCD display

Pressure Indicators

CE



PZ-30

- Input signal: 1~5V or 4~20 mA
- Two switch output
- Output: 1~5 VDC or 4~20 mA
- Power: 10.8~30 VDC
- 3 digit LED display

CE



PZ-200

- Input signal: 1~5V or 4~20 mA
- Four switch output
- Output: 4~20 mA
- Power: 10.8~30 VDC
- 3.5 digit LCD display

Liquid leak sensors

CE



WL10

- Unique one piece detector
- Two housing materials: Polypropylene (PP) for use in water, Perfluoroalkoxy alkane (PFA) for use with corrosive fluids
- Power: 12~24 VDC
- 2 or 4 meter cable leads

Potentiometers

W: Wire wound type

P: Conductive plastic type

C: Cermet type

O: Optical contactless type

Sensing potentiometers

O



JT22

- Turns: Single
- Effective electrical angle: 120° or 320°
- Linearity: ±3%
- Output voltage: +0.5 ~ +4.5 V
- Rotational life: 100 million cycles

O



JT30

- Turns: Single
- Effective electrical angle: 120° or 340°
- Linearity: ±1.5% or 2.0%
- Output voltage: +0.5 ~ +4.5 V
- Rotational life: 200 million cycles

W



J40S/J45S/J50S

- Turns: Single
- Effective electrical angle: 350°, 353°, 355°
- Linearity: ±0.15% or 0.10%
- Resistance range: 500 ~ 50 kΩ
- Rotational life: 1~10 million cycles

W



M22L10

- Turns: 10
- Effective electrical angle: 3600°
- Linearity: ±0.2%
- Resistance range: 1 k ~ 20 kΩ
- Rotational life: 5 million cycles

P



MC1003

- Turns: 3
- Effective electrical angle: 1080°
- Linearity: ±1%
- Resistance range: 5 k ~ 20 kΩ
- Rotational life: 1 million cycles

Sensing potentiometers

P



- JC10**
- Turns: 1
 - Effective electrical angle: 324° ±5°
 - Linearity: ±2%
 - Resistance range: 2 k~20 kΩ
 - Rotational life: 5 million cycles

P



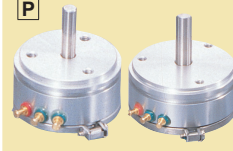
- JC22S**
- Turns: 1
 - Effective electrical angle: 340° ±5°
 - Linearity: ±0.5%
 - Resistance range: 200~10 kΩ
 - Rotational life: 20 million cycles

P



- JC22E**
- Turns: 1
 - Effective electrical angle: 320° ±5°
 - Linearity: ±1%
 - Resistance range: 1 k~10 kΩ
 - Rotational life: 10 million cycles

P



- JC30S/40S**
- Turns: 1
 - Effective electrical angle: 343° ±5° / 345° ±5%
 - Linearity: ±0.5% / ±0.3%
 - Resistance range: 500~20 kΩ
 - Rotational life: 30 million cycles

P



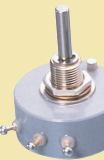
- CRV16**
- Turns: 1
 - Effective electrical angle: 220° ±10°
 - Linearity: ±2%
 - Resistance range: 2 k~10 kΩ
 - Rotational life: 500,000 cycles

P



- JCL/JCL B (Rectilinear type)**
- Effective electrical travel: 10~50mm/100~500mm
 - Linearity: ±0.5%
 - Resistance range: 1 k~10 kΩ
 - Rotational life: 20 million cycles / 4~20 million cycles

C



- JP-30**
- Turns: 1
 - Effective electrical angle: 300° ±1°
 - Linearity: ±0.5%
 - Resistance range: 500~100 kΩ
 - Rotational life: 3 million cycles

Manual setting potentiometers

W



- M-1303/1305**
- Turns: 3 on M-1303 and 5 on M-1305
 - Effective electrical angle: 1080° on M-1303 and 1800° on M-1305
 - Linearity: ±0.5%
 - Resistance range: 100~20 kΩ
 - Rotational life: 15,000 cycles

W



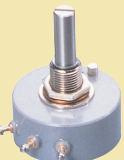
- M-22S10**
- Turns: 10
 - Effective electrical angle: 3600°
 - Linearity: ±0.2%
 - Resistance range: 100~50 kΩ
 - Rotational life: 25,000 cycles

W



- M-22E10**
- Turns: 10
 - Effective electrical angle: 3600°
 - Linearity: ±0.2%
 - Resistance range: 100~50 kΩ
 - Rotational life: 25,000 cycles

C



- JP-30B**
- Effective electrical angle: 300° ±1°
 - Linearity: ±0.5%
 - Resistance range: 500~100 kΩ
 - Rotational life: 100,000 cycles

Encoders

- O**: Incremental Optical type
M: Incremental Magnetic type

Sensing rotary encoders

O



- RE-12**
- Incremental
 - Miniature size
 - Input voltage: 5VDC
 - Quasi-sinusoidal A phase
 - Resolution: 100, 200 or 300 P/R

O



- RE-12D**
- Incremental
 - Miniature size
 - Input voltage: 5VDC
 - Square wave, A and B phases
 - Resolution: 100, 200 or 300 P/R

O



- RE30E**
- Incremental
 - Input voltage: 5 VDC or 24 VDC
 - Square wave, A, B and Z phase
 - Resolution: 100~1024 P/R

O



- RE30E**
- Incremental
 - Input voltage: 5 VDC or 24 VDC
 - Square wave, A, B and Z phase
 - Resolution: 100~1024 P/R

Manual setting rotary encoders

O



- REC20/RES20**
- Incremental
 - Input voltage: 5 VDC
 - Square wave, A and B phases
 - Resolution: 25 P/R

O



- REC20D(W)/RES20D(W)**
- Incremental
 - Input voltage: 5 VDC
 - Square wave, A and B phases
 - Resolution: 25 P/R
 - Panel seal types (W) available

M



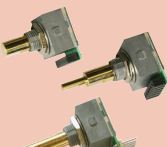
- RMS20**
- Incremental
 - Input voltage: 5 VDC
 - Square wave, A and B phases
 - Resolution: 100, 250 or 256 P/R

O



- REC16/RES16**
- Incremental
 - Input voltage: 5 VDC
 - Square wave, A and B phases
 - Resolution: 25 or 50 P/R
 - Push switch option available

O



- REC16K/16L/16M**
- Incremental
 - Detent & smooth feel
 - Input voltage: 5 VDC
 - Square wave, A and B phases
 - Resolution: 25 P/R
 - Single / double shaft; Push switch option available

Joystick encoders

O



- CJ25**
- Joystick, encoder and pushbutton switch in one package
 - Power supply: 5 VDC / 20 mA max
 - Resolution: 5 P/R (20 position)
 - Square wave, A and B phases
 - Joystick: 4 or 8 direction

Turbo Fans

Resin material in full compliance with

- U**: UL94 V0
F: FDA standards

Micro blower TF series with aerodynamic bearings is compact yet provides high power, long life and low vibration.

U



- TF037C-2100**
- Operating voltage range: 10~30 VDC
 - Rotation speed: 6,000~45,000 r/min
 - Min. flowrate: 5 L/min
 - Static pressure: e.g. 4 kPa max. at 40,000 r/min, 80 L/min, at 24 VDC
 - With fixing leg
 - Weight: 94 g
 - Driver set also available

U



- TF037C-2000**
- Operating voltage range: 10~30 VDC
 - Rotation speed: 6,000~45,000 r/min
 - Min. flowrate: 5 L/min
 - Static pressure: e.g. 4 kPa max. at 40,000 r/min, 80 L/min, at 24 VDC
 - Without fixing leg
 - Weight: 90 g

U



- TF037E-2000**
- Operating voltage range: 10~30 VDC
 - Rotation speed: 6,000~45,000 r/min
 - Min. flowrate: 5 L/min
 - Static pressure: e.g. 4 kPa max. at 40,000 r/min, 80 L/min, at 24 VDC
 - With fixing leg, and quick fastener P14 (inlet / outlet)
 - Weight: 165 g

F



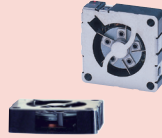
- TF037F-2000**
- Operating voltage range: 10~30 VDC
 - Rotation speed: 6,000~45,000 r/min
 - Min. flowrate: 5 L/min
 - Static pressure: e.g. 4 kPa max. at 40,000 r/min, 80 L/min, at 24 VDC
 - Weight: 72 g
 - Driver set also available

F



- TF029B-1000**
- Operating voltage range: 12~27 VDC
 - Rotation speed: 10,000~50,000 r/min
 - Min. flowrate: 10 L/min
 - Static pressure: e.g. 2 kPa at 36,000 r/min, 100 L/min
 - Weight: 55 g
 - Driver set also available

Brushless DC Fans



F16FB
 • Miniature side flow fan
 • Air flow: 0.012 m³/min
 • Static pressure: 5.5 Pa
 • Noise: 3 db (A)
 • Rated voltage: 5 VDC



F16EA
 • Air flow: 0.012 m³/min
 • Static pressure: 4.7 Pa
 • Noise: 3 db (A)
 • Rated voltage: 3.3 VDC
 • 16mm square



F17FA
 • Air flow: 0.01 m³/min
 • Static pressure: 6 Pa
 • Noise: 5 db (A)
 • Rated voltage: 3.3 VDC
 • 17mm square



F17HA
 • Air flow: 0.015 m³/min or 0.018 m³/min
 • Static pressure: 10.0 Pa or 17.0 Pa
 • Noise: 7 db (A) or 15 db (A)
 • Rated voltage: 5 VDC
 • 17mm square



F251R
 • Air flow: 0.04 m³/min or 0.05 m³/min
 • Static pressure: 20.0 Pa or 30.0 Pa
 • Noise: 11 db (A) or 15 db (A)
 • Rated voltage: 5V or 12 VDC
 • 25mm square



F310R
 • Air flow: 0.09 m³/min or 0.06 m³/min
 • Static pressure: 14.0 Pa or 23.0 Pa
 • Noise: 13 db (A) or 17 db (A)
 • Rated voltage: 5 V or 12 VDC
 • 30mm square



F412R/F410T
 • Air flow: 0.11 m³/min or 0.15 m³/min
 • Static pressure: 15.0 Pa, 26.0 Pa / 10.0 Pa, 23.0 Pa
 • Noise: 16 db (A), 23 db (A) / 12 db (A), 18 db (A)
 • Rated voltage: 5 V or 12 VDC
 • 41mm square / 40mm square



F614T
 • Air flow: 0.36 m³/min
 • Static pressure: 20 Pa
 • Noise: 23 db (A)
 • Rated voltage: 4 V or 12 VDC
 • 50mm square

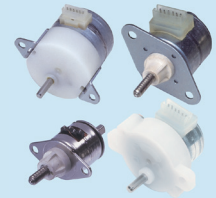
Precision Motors

DC geared motors



*Please refer to our website for details.

Stepping motors



*Please refer to our website for details.

Polygon Laser Scanners

Polygon mirrors and scanner motors



Polygon Mirrors

- No. 1 in global market share in the world
- Excellent processing technology provides high reflectivity
- Flexibly customize a variety of configuration and sizes
- Achievements of monthly production of 1 million or more
- An ideal solution for LiDAR long-distance detection

for LiDAR



Automotive Grade Drone Topography

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