

Switch Selection SWITCH SELECTION

Select suitable switches from wide variations according to the applications and shapes



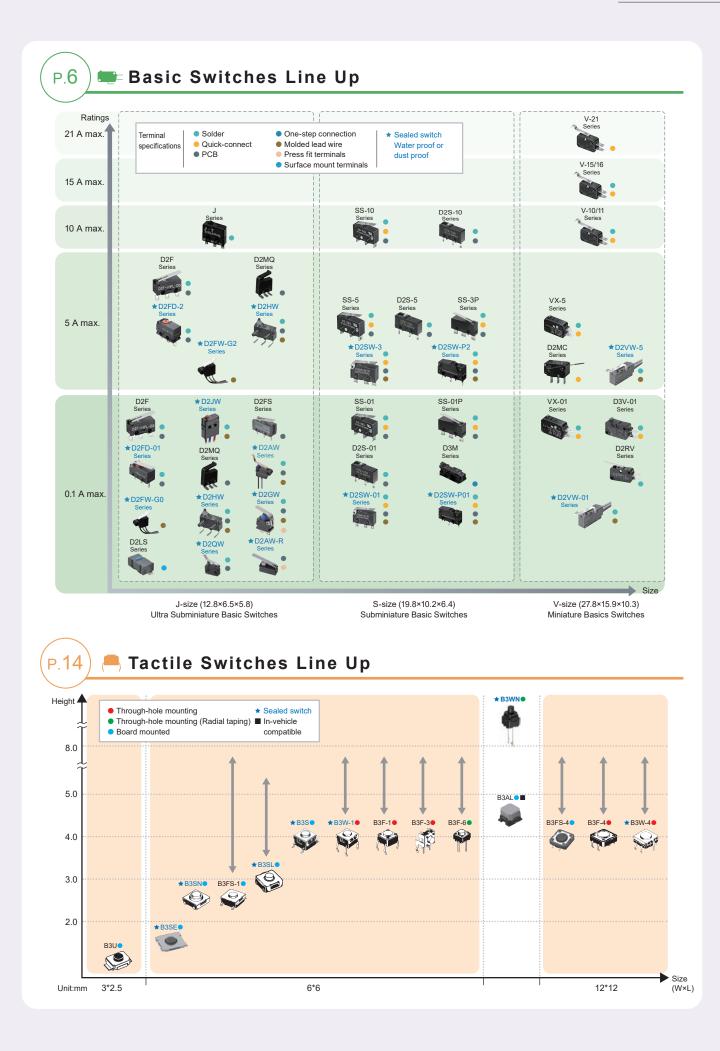
Basic Switches/ Door Interlock Power Switches/ Miniature Detection Switches/ Tactile Switches/ Rocker Switches/ Pushbutton Switches/ DIP Switches/ Thumbwheel Switches

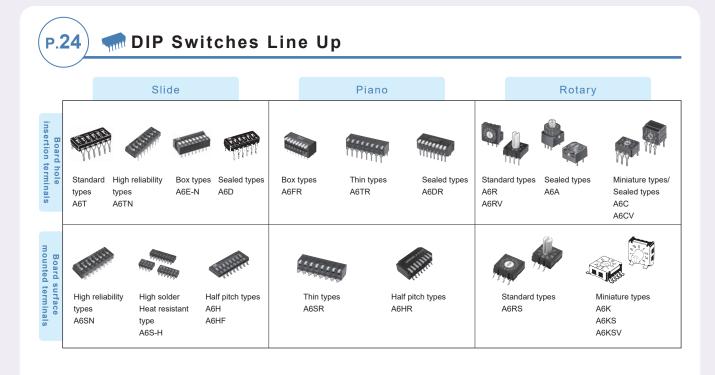
Miniature switches to be installed in devices and mounted on the PCB. Enable to select suitable switches from wide variations according to the applications and shapes.

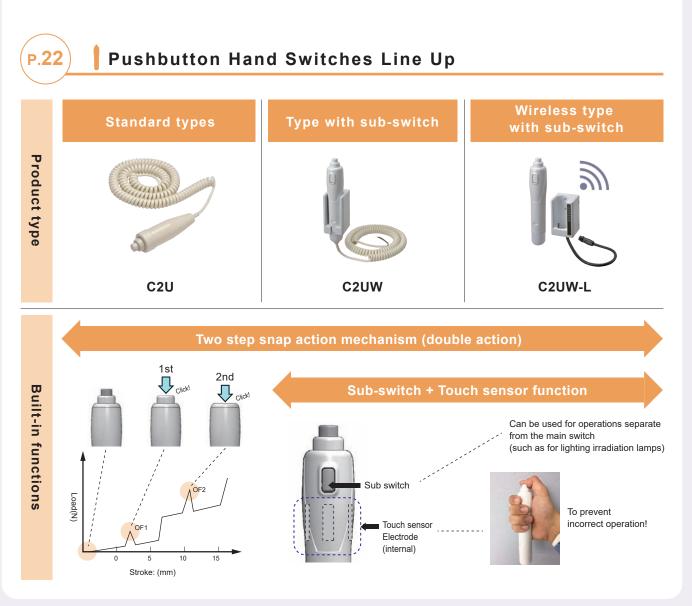


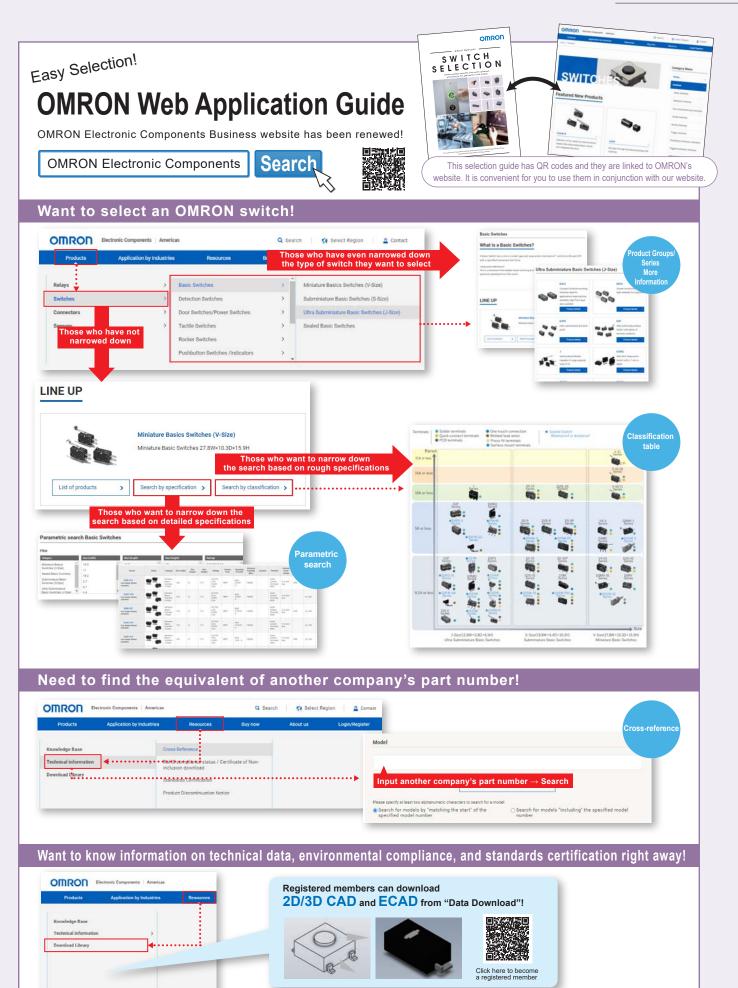
P.34 Application Examples

- OMRON Switches Do you know about them?
- Application Example Details (Smart Building / Smart Home / Entertainment / Factory Automation)













| Classification | l. | | М | iniature types (V | -size) | | Miniature types (V-size) | | |
|----------------------------------|-------------|---|--|---|--|--|---|---|-------------------------------------|
| Model | | V | | | VX | | D2RV | D2 | MC |
| Appearance | | | | 10.3 27.8 15.9 04 mp R @ 04 mp | | 10.3 10.3 15.9 15.9 15.9 15.9 15.9 15.9 15.9 15.9 15.9 15.9 15.9 15.9 15.9 15.9 15.9 15.9 10.2 | | -31 | |
| | | V-21 | V-16 | V-11 | VX-5 | VX-01 | | D2MC-5 | D2MC-01 |
| Features | | •Standard min high reliability | iature basic switc | h offers | •Compact basic low load operation contact reliabili | tion and high | •High reliability for micro load applications, even in adverse atmosphere. | •Rotary-action sv torque operatior | |
| Contact form | | SPDT | / SPST-NC / SPS | ST-NO | | sic switch with a force and high pility | SPST-NO | SF | PDT |
| Spe | ecification | | Rivet | | Rivet | Crossbar | | Rivet | Crossbar |
| Contact Ma | terial | | Silver alloy | | Silver alloy | Gold alloy | Reed switches | Silver alloy | Gold alloy |
| Ga | p | | 1 mm | | 0.5 | mm | | 0.5 | mm |
| Ratings (resistive load | (F | 21 A at 250 VAC 0.6 A at 125 VDC 0.3 A at 250 VDC | 16 A at 250 VAC 0.6 A at 125 VDC 0.3 A at 250 VDC | 15 A at 250 VAC 0.6 A at 125 VDC 0.3 A at 250 VDC | 5 A at 250 VAC | 0.1 A at 125 VAC 0.1 A at 30 VDC | Switching voltage 100 V DC max. Switching current 0.25 ADC max. Contact capacity 10 WDC max. | 5 A at 125 VAC 5 A at 250 VAC | 0.5 A at 125 VAC 0.5 A at 30 VDC |
| Inrush current | NC NO | 50 A max. | 40 A max. | 36 A max. | 15 A max. | | | 15 A max. 7 A max. | 0.5 A max. |
| Minimum app load (referend | | 160 mA at 5 VDC | | 160 mA at 5 VDC | 1 mA at 5 VDC | 0.1 mA at 5 VDC | 160 mA at 5 VDC | 1 mA at 5 VDC | |
| Contact resis (initial values | | 15 mΩ max. | | 30 mΩ max. | 50 mΩ max. | 150 mΩ max. | 20 mΩ max. | 100 mΩ max. | |
| Operating for (see note1) | се | 3.92 N max. | 1.96 N max. 3.92 N max. | 0.98 N max. | | N max. N max. | 0.25 N max. 0.49 N max. 0.98 N max. | 0.75 mN | ·m max. I·m max. I·m max. |
| Durahilita | Mechanical | 50,00 | 0,000 operations | s min. | 50,000,000 operations min. | 10,000,000 operations min. | 10,000,000 operations min. | 10,000,000 o | perations min. |
| Durability (see note1) | Electrical | 100,000 ope | erations min. | 1,000,000 operations min. | 500,000 operations min. | 1,000,000 operations min. | 3,000,000 operations min. | 100,000 operations min. | |
| Degree of prot | ection | | IEC IP40 | | IEC IP40 | | IEC IP40 | IEC | IP40 |
| Ambient oper temperature | ating | -25 to +80°C | -25 to + (Heat resistive: | | -25 to +105°C | | -10 to +60°C | -25 to | +80°C |
| Ambient oper humidity | ating | 85%RH | l max. (for +5 to | +35°C) | 85%RH max. (for +5 to +35°C) | | 85%RH max. (for +5 to +35°C) | 85%RH max. (i | for +5 to +35°C) |
| Actuators | | | Pin plunger Hinge lever Simulated roller lever Hinge roller lever | | Pin plunger Hinge lever Simulated roller lever Hinge roller lever | | Pin plunger Hinge lever Simulated roller lever Hinge roller lever | المراجع | otary action |
| Terminals | | Quick-connect (#250) | Sol Quick-conr Quick-conr | nect (#187) | | lder nect (#187) | Solder | Quick-con | nect (#205) |
| Approved sta | ndard | See "Inforr | nation on Standa | ards certification | /conformity" (avai | lable on the websi | ite) for information on the av | ailability of certifie | ed standards. |
| ote 1: For pin plu | | | | | | | | | |

Note 1: For pin plunger type

Basic Switches Classification Subminiature types (S-size) Model Appearance SS-10 **SS-5** SS-01 ·Quick-connect terminals simplify Features ·S-size standard basic switch offers high reliability and easy-to-use. wiring. SPST-NC / SPST-NO SPDT / SPST-NC / SPST-NO Contact form Specification Crossbar Rivet Crossbar Contact Material Gold alloy Silver alloy Silver Gold alloy 0.5 mm 0.25 mm Gap 0.5 mm 5 A at 125 VAC Ratings 0.1 A at 125 VAC 0.1A at 30 VDC 10.1 A at 250 VAC 3 A at 250 VAC 0.1 A at 30 VDC (resistive load) NC 20A max. Inrush 1A max. 1 A max. current NO 15 A max. 10 A max. Minimum applicable 160mA at 5 VDC 1mA at 5 VDC 1 mA at 5 VDC load (reference values) OF 1.47 N : 50 mΩ max. Contact resistance OF 1.47 N : 30 mΩ max. OF 0.49 N : 100 mΩ max. 100 mΩ max. OF 1.47 N : 30 mΩ max. (initial values) OF 0.49 N : 50 mΩ max. OF 0.25 N : 150 mΩ max. 0.25 N max. Operating force 0.49 N max. 1.50 N max. 1.47 N max. 0.49 N max. (see note1) 1.47 N max. 1.47 N max. Mechanical 500,000 operations min. 10,000,000 operations min. 30,000,000 operations min. Durability (see note1) 50,000 Electrical 200,000 operations min. 200,000 operations min. operations min. Degree of protection IEC IP40 IEC IP40 Ambient operating -25 to +85°C -25 to +85°C . temperature 80%RH max. (for +5 to +35°C) Ambient operating humidity 85%RH max. (for +5 to +35°C) Pin plunger Pin plunger Hinge lever Hinge lever Actuators Simulated roller lever Simulated roller lever Hinge roller Hinge roller lever Solder The terminals connect Terminals Quick-connect (#110) to JST's XA Connector PCB Approved standard See "Information on Standards certification/conformity" (available on the website) for information on the availability of certified standards.

Note 1: For pin plunger type

Detection Switches

nual Switches

Setting Switche

Application Exam

7





| Classification | 1 | | Ultra subminiature types (J-size) | | | | |
|---|-------------|---|--|---------------------------------|---------------------------------|--|--|
| Model | | | D2F | D2FD | | | |
| Appearance | | | | 6.5 | | | |
| | | D2F-5 D2F D2F-01 | | | D2FD-2 | D2FD-01 | |
| Features | | | niature basic switches with wi n meet a wide range of applica | | | basic switch s to IP6X. | |
| Contact form | | | SPDT | | SP | 2DT | |
| Spe | ecification | | Crossbar | | Cros | ssbar | |
| Contact Ma | terial | Silve | r alloy | Gold alloy | Silver alloy | Gold alloy | |
| Ga | р | | 0.25 mm | | 0.25 | 5 mm | |
| Ratings (resistive load | d) | 3 A at 125 VAC 5 A at 250 VAC 2 A at 30 VDC | 1 A at 125 VAC 0.5 A at 30 VDC | 0.1 A at 30 VDC | 2 A at 125 VAC 2 A at 30 VDC | 0.1 A at 125 VAC 0.1 A at 30 VDC | |
| Inrush current | NC NO | | | | | | |
| Minimum applicable load (reference values) | | 100 mA at 5 VDC | | 1 mA at 5 VDC | 100 mA at 5 VDC | 1 mA at 5 VDC | |
| Contact resis (initial values | | $30 \text{ m}\Omega \text{ max}.$ | 50 m Ω max. | 100 mΩ max. | 30 mΩ max. | 100 mΩ max. | |
| Operating for (see note1) | ce | 1.47 N max. | 0.74 N max. | 0.74 N max. 1.47 N max. | 2.0 N | I max. | |
| Durability | Mechanical | 1,000,000 operations min. | | | 300,000 ope | erations min. | |
| (see note1) | Electrical | 30,000 ope | rations min. | 100,000 operations min. | 30,000 operations min. | 100,000 operations min. | |
| Degree of prot | ection | | IEC IP40 | | IEC IP6X | | |
| Ambient oper temperature | rating | | -40 to +85°C | | -20 to +70°C | | |
| Ambient oper humidity | rating | ; | 85%RH max. (for +5 to +35°C | ;) | 85%RH max. (for +5 to +35°C) | | |
| Actuators | | | Pin plunger Hinge lever Simulated roller lever (R1.3) Simulated roller lever (R2.5) Hinge roller lever | | ۲ مر | Pin plunger linge lever simulated oller lever | |
| Terminals | | (straigh | PCB t, right angle, left angle, self-c Solder | linching) | Self-clinching PCB Solder | | |
| Approved sta | ndard | See "Information on Sta | andards certification/conform | ity" (available on the website) | for information on the availabi | ility of certified standards. | |
| Note 1: For pin plu | | | | | | | |

Note 1: For pin plunger type

Basic Switches (Long life)

| Classific | ation | Ultra subminiature types (J-size) | | | | | | |
|-------------------------------|--------------------------------|---|-----------|---|-------------------------|--|--|--|
| Model | | | | D2LS | | | | |
| Appearance | | | | | | | | |
| | | D2LS-10 D2LS-11 | D2LS-21 | D2LS-11(10M) | D2LS-21(10M) | D2LS-21(20M) | | |
| Features | ; | | | •Surface mount type High load capacity and long life | 9 | | | |
| Contact | form | | | SPDT | | | | |
| | Specification | | | Crossbar | | | | |
| Contact | Material | Silver | | | | | | |
| | Gap | 0.4 mm | | | | | | |
| Ratings (resistive | e load) | 1 mA at 6 VDC | | | | | | |
| Inrush current | NC NO | | | | | | | |
| | n applicable erence values) | 1 mA at 5 VDC | | | | | | |
| Contact (initial va | resistance Ilues) | 100 mΩ max. | | | | | | |
| Operatin (see note | | 1.2±0.4 N | 0.6±0.2 N | 1.2±0.4 N | 0.6±0.2 N | 0.6±0.2 N | | |
| Durability (see note | | 5,000,000 operations min. (300 times/minute) 10,000,000 ope | | | min. (300 times/minute) | 20,000,000 operations min. (300 times/minute) | | |
| Degree o | f protection | IEC IP40 | | | | | | |
| Ambient operating temperature | | -25 to +85°C | | | | | | |
| Ambient humidity | operating | 85%RH max. (for +5 to +35°C) | | | | | | |
| Actuator | S | | | | | | | |
| Terminal | s | | | | | | | |
| | | | | | | | | |

Note: The above values are initial values. *1. Contact us for test conditions.

Basic Switches (Sealed types)



| Classification | | | | | d turnoo | | |
|----------------------------------|-------------|---|-------------------------------------|---|--|--|------------------------------|
| Model | | | .0.0/ | Sealed types D2SW D2FW-G | | | |
| Appearance | | | | | | | ¥-G |
| | | D2VW-5 | D2VW-01 | D2SW-3 | D2SW-01 | D2FW-G2 | D2FW-G0 |
| Features | | •High capacity and robus •Sealed switch capable of currents •Miniature internal struct | of handling inrush | Sealed switch capable currents Subminiature internal s | Ū. | •M4 mounting sealed ba •High dustproof perform environmental condition | ance, even in severe |
| Contact form | | SPDT / SPST-I | NC / SPST-NO | SPDT / SPST- | NC / SPST-NO | SPDT / SPST- | NC / SPST-NO |
| Spe | ecification | Rivet | Crossbar | Rivet | Crossbar | Cros | ssbar |
| Contact Ma | terial | Silver alloy | Gold alloy | Silver | Gold alloy | Silver alloy | Gold alloy |
| Ga | р | 0.5 | mm | 0.5 | mm | 0.25 | 5 mm |
| Ratings (resistive loa | d) | 5 A at 125 VAC 5 A at 250 VAC 5 A at 30 VDC | 0.1 A at 125 VAC 0.1 A at 30 VDC | 3 A at 125 VAC 2 A at 250 VAC 3 A at 30 VDC | 0.1 A at 125 VAC 0.1 A at 30 VDC | 1 A at 30 VDC | 0.1 A at 30 VDC |
| Inrush current | NC NO | 15 A max. | | 20 A max. 10 A max. | 1 A max. | - | |
| Minimum appl (reference val | | 160 mA at 5 VDC | 1 mA at 5 VDC | 160 mA at 5 VDC | 1 mA at 5 VDC | 100 mA at 5 VDC | 1 mA at 5 VDC |
| Contact resis (initial values | | Terminal model : 50 mΩ max. Molded lead wire 300 mm : 100 mΩ max. Molded lead wire 1,000 mm : 200 mΩ max. | | Terminal model: 30 mΩ max. Molded lead wire : 50 mΩ max. | Terminal model : 50 mΩ max. Molded lead wire : 70 mΩ max. | 100 mΩ max. | 150 mΩ max. |
| Operating for (see note1) | се | 1.96 N max. | | 1.77 N | N max. | | er : 2.45 N ever : 2.94 N |
| Durability | Mechanical | 10,000,000 op | perations min. | 5,000,000 op | perations min. | 300,000 operations min. | |
| (see note1) | Electrical | 100,000 operations min. | 1,000,000 operations min. | 200,000 ope | erations min. | 30,000 operations min. | 100,000 operations min. |
| Degree of pro | tection | IEC IP67 (Excluding the terminals on terminal model) | | IEC IP67 (Excluding the terminals on terminal model) | | IEC IP67 (Excluding the terminals on terminal model) | |
| Ambient ope temperature | rating | -40 to +85°C | | -40 to +85°C | | -40 to +85°C | |
| Ambient ope humidity | rating | 95%RH max. (for +5 to +35°C) | | 95%RH max. (for +5 to +35°C) | | 95%RH max. (for +5 to +35°C) | |
| Actuators | | Pin plunger Hinge lever Simulated roller lever Hinge roller lever | | Pin plunger Hinge lever Simulated roller lever Lever | | | af lever ng leaf lever |
| Terminals | | Molded I Sol | | Molded lead wire Solder Quick-connect (#110) PCB | | Molded lead wire | |
| Approved sta | ndard | See "Information or | Standards certification | conformity" (available or | the website) for informa | ition on the availability of | certified standards. |
| | | | | 2 (| , | -, | |

Note 1: For pin plunger type

| Classificatio | on | | Sealed types | | | | | |
|-------------------------------|--------------|---|---|---|--|--|--|--|
| Model | | D2QW | D2HW | D2AW | D2AW-R | D2GW | | |
| Appearance | 9 | 5.3 9.3 | | | | 5.3 6.5 ——————————————————————————————————— | | |
| Features | | *Longest stroke of all seal switches, easy to use even without a lever *High contact reliability due to slide structure | •Small sealed snap-action switch with a very long stroke for reliable ON/OFF action. •Various mounting, lever, and terminal specifications •Wide rating range from 1 mA to 2 A / 5 V to 42 V | High contact reliability due to slide structure Various mounting, lever, and terminal specifications High insulation resistance | •Sealed Ultra Subminiature Switch with Integrated Resistors. Four states (ON/ OFF, short circuit, open circuit) are output. •"Normal/abnormal operation" can be determined by the switch alone | •The industry's smallest class •Leaf lever specification also lined up •High contact reliability due to slide structure | | |
| Contact forr | n | SPST-NC / SPST-NO | SPDT / SPST-NC / SPST- NO | SPST-NC / SPST-NO | Series circuit / Parallel circuit | SPST-NC / SPST-NO | | |
| S | pecification | Slide | Crossbar | Slide | Slide | Slide | | |
| Contact M | laterial | Gold plated / Silver plated | Gold alloy | Silver plated | Silver plated | Silver plated | | |
| G | iap | | 0.5 mm | | | | | |
| Ratings (resistive lo | ad) | 0.1 A at 30 VDC 10 mA at 14 VDC | 0.1 A at 125 VAC 2 A at 12 VDC 1 A at 24 VDC 0.5 A at 42 VDC | 0.1 A at 12 VDC | 5 to 14 VDC 0.25 W / 0.5 W | 10 mA at 13.5 VDC | | |
| Inrush NC current NO | | | | | | | | |
| Minimum app (reference va | | 1 mA at 5 VDC | 1 mA at 5 VDC | 1 mA 5 VDC | | 1 mA at 5 VDC | | |
| Contact res (initial value | | Terminal model : 100 mΩ max. Molded lead wire : 150 mΩ max. | Terminal model: 100 mΩ max. Molded lead wire : 150 mΩ max. | Terminal model: 100 mΩ max. Molded lead wire : 150 mΩ max. | | Terminal model : 500 mΩ max. Molded lead wire : 700 mΩ max. | | |
| Operating for (see note1) | | 1.5 N max. | 0.75 N max. | 1.0 N max. | 1.0 N max. | 1.2 N max. | | |
| | Mechanical | 500,000 operations min. | 1,000,000 operations min. | 200,000 operations min. | 200,000 operations min. | 200,000 operations min. | | |
| Durability (see note1) | Electrical | 0.1 A at 30 VDC : 200,000 operations min. 10 mA at 14 VDC : 500,000 operations min. | 100,000 operations min. | 200,000 operations min. | 200,000 operations min. | 200,000 operations min. | | |
| Degree of pro | otection | IEC IP67 (Excluding the terminals on terminal model) | IEC IP67 (Excluding the terminals on terminal model) | IEC IP67 (Excluding the terminals on terminal model) | IEC IP67 (Excluding the terminals on terminal model) | IEC IP67 (Excluding the terminals on terminal model) | | |
| Ambient op temperature | • | -40 to +85°C | -40 to +85°C | -40 to +85°C | -40 to +85°C | -40 to +85°C | | |
| Ambient op humidity | erating | 95%RH max. (for +5 to +35°C) | 95%RH max. (for +5 to +35°C) | 95%RH max. (for +5 to +35°C) | 70°C 95%RH 500 hours | 70°C 95%RH 500 hours | | |
| Actuators | | Pin plunger Simulated leaf lever Leaf lever Bent leaf lever | Pin plunger Hinge lever Simulated roller lever Hinge roller lever Leaf lever Simulated leaf lever | Pin plunger Long straight leaf lever Leaf lever Simulated leaf lever Long leaf lever | Pin plunger Long straight leaf lever Leaf lever | Pin plunger | | |
| Terminals | | Molded lead wire Solder PCB | Molded lead wire Solder PCB (straight, right angle, left angle) | Molded lead wire Solder PCB | PCB Press-fit terminals (Right angled, Left angled) | Molded lead wire Solder PCB Press-fit terminals (Right angled, Left angled) | | |
| Approved st | andard | See "Information on Sta | ndards certification/conformit | y" (available on the website) for | or information on the availabil | ity of certified standards. | | |
| ote 1: For pin plunger type | | | | | | | | |

Actuator (sold separately)

| Model | Appearance | Applicable switches | Model |
|-----------------------------|------------|--|----------------------------------|
| Leaf spring | | | Reverse Hinge Le |
| VAL | | V D2VW pin plunger type with OF over 1.96N | VAM21 |
| Roller Leaf Spring | R. | V | Reverse Hinge Modified Lever |
| VAL2 VAL02 | | D2VW pin plunger type with OF over 1.96N | VAM-1 |
| Long Hinge Lever | | v | Reverse Roller Modefied Lever |
| VAV | | D2RV D2VW pin plunger type with OF over 0.98N | VAM22 |
| Hinge Wire Lever | | V D3V-01 | Reverse Long Hir Roller Lever |
| VAV-5 | | VX D2MV D2RV D2VW pin plunger type with OF over 0.25N | VAM2 |
| Reverse Long Hinge Lever | | V | |
| VAM | | D3V-01 VX D2MV D2RV | |

| Model | Appearance | Applicable switches |
|------------------------------------|------------|------------------------------|
| Reverse Hinge Lever | | v |
| VAM21 | | D3V-01 VX D2MV D2RV |
| Reverse Hinge Modified Lever | | v |
| VAM-1 | | D3V-01 VX D2MV D2RV |
| Reverse Roller Modefied Lever | M | V |
| VAM22 | | D3V-01 VX D2MV D2RV |
| Reverse Long Hinge Roller Lever | D | V |
| VAM2 | | D3V-01 VX D2MV D2RV |

Separator (sold separately)

| Model | Thickness (mm) | Appearance | Applicable switches |
|----------------------|----------------|------------|-------------------------------------|
| SEPATOR FOR SS T0.13 | 0.13 | Separator | SS SS-P D2S D2SW D2SW-P |
| SEPATOR FOR V T0.13 | 0.13 | Separator | V D3V-01 VX D2RV D2VW |

Door Interlock Power Switches

| Classification | | | Door interlock power switches | | | |
|----------------------|--|------------------|--|-----------------------------------|--|--|
| Model | | | Door Interlock | | | |
| Appearance | | ce | | | | |
| | | | Standard | Pull-on lock | | |
| Featur | es | | Door interlock power swit | tch with contact gap,3 mm. | | |
| Contac | ct fo | rm | DPST-NO/DPST-NO+SPS SPST-NO+ | T-NC/SPST-NC/SPST-NO/ ⊧SPST-NC | | |
| | Sp | ecification | Riv | vet | | |
| Contact | Ma | terial | Sil | ver | | |
| | Ga | р | 3 mm min. | 1 mm | | |
| Rating (resisti | | oad) | 16 A at 250 VAC | 10 A at 250 VAC | | |
| Inrush NC current NO | | | 30 A max. | 24 A max. | | |
| load (re | Minimum applicable load (reference values) | | 160 mA at 5 VDC | | | |
| Contac (initial | | sistance les) | 50 mΩ max. | | | |
| Opera (see n | | | 5.88 N max. 2.94 N max. | 19.61 N max. 1.96 N max. | | |
| Durabi | lity | Mechanical | 10,000,000 operations min. | | | |
| (see note1) | | Electrical | 100,000 operations min. | | | |
| Degree | of p | protection | IEC IP40 | | | |
| Ambie tempe | | perating re | -25 to | +85°C | | |
| Ambie humidi | | perating | 85%RH max. (for +5 to +35°C) | | | |
| Actuators | | | Pin plunger | | | |
| Terminals | | | Quick-conr | nect (#250) | | |
| Approved standard | | | See "Information on Standards certification/conformity" (available on the website) for information on the availability of certified standards. | | | |

| Mini | ature E | Detection Swit | ches | |
|-----------------------|--------------------------------|---|---------------------|--|
| Classification | | Ultra-miniature detection switches | | |
| Model | | D | 3C | |
| Appearance | | 4.2 6 (External length) 8 8 (Distance from hole) | | |
| | | Standard | Low operating force | |
| Feature | s | ·Detection switch | with lever action. | |
| Contact | t form | SP | DT | |
| | Specification | Sli | de | |
| Contact - | Material | Silver plated | | |
| Ratings (resistiv | | 0.1 A at 30 VDC | | |
| | n applicable erence values) | 1 mA at 5 VDC | | |
| Contact (initial v | t resistance alues) | 50 mΩ max. | | |
| Operati (see no | ng force te1) | 1.28 N max. | 0.39 N max. | |
| Durabili | ty Mechanical | | | |
| (see note1) | Electrical | 50,000 ope | rations min | |
| Degree | of protection | IEC IP00 | | |
| Ambien tempera | t operating ature | -20 to +80°C | | |
| Ambien humidit | t operating y | 85%RH max. (for +5 to +35°C) | | |
| Actuators | | Rotary lever | | |
| Termina | als | PC | СВ | |
| Approve | ed standard | See "Information on Standards certification/ conformity" (available on the website) for information on the availability of certified standards. | | |

Tactile Switches (Unsealed)



| Sealed / | unsealed | | | Unsealed | | | | | | | | | | | |
|--|--|---------------------------------|-------------------------------|-------------------------------|---------------------------------------|---------------------------------|---------------------------------|---------------------------------------|----------------------------------|--|-------------------------------|-------------------------------|---------------------------------|---------------------------------|-------------------------------|
| Mountin | g | | | | | | Т | hrough-ho | le mountin | ng | | | | | |
| Model | | | | | | | | B | 3F | | | | | | |
| Size | | | 6×6 | mm | | | 12×1 | 2 mm | | | | 6×6 | mm | | |
| Appeara | ance | | | | | | | | | | | • | P | | |
| | | | B3F-1000 | | B3F- 1000-G | B3F- | 4000 | B3F- 5000 | B3F- 5001 | | B3F-3000 | | B3F- 3000-G | B3F- | 6000 |
| Series | | Standard | | | Micro load | Stan | dard | Long durability | High reliability | S | ide-operat | e | Side- operate, Micro load | Radial | taping |
| Features | 5 | | | •Standard | | | | terminals \ ng package | | | | | 2×12 mm, | | |
| Contact materials Silver plated Gold plated Silver plated Silver plated Gold plated | | | | S | Silver plate | d | Gold plated | Silver | plated | | | | | | |
| Ratings (resistive load) | | 1 to 50 | mA, 3 to 2 | 24 VDC | 100 μA to 50 mA, 3 to 24 VDC | 1 | to 50 mA, | 3 to 24 VD | с | 100 μA to 50 mA, 3 to 4 VDC 1 to 50 mA, 3 to 4 VDC 24 VDC | | | | 1 to 50 mA, 3 to 24 VDC | |
| | n applicable load ce values) | | | | 1 | 1 | | 10 µA a | t 1 VDC | | | | | | |
| Contact (initial va | resistance alues) | | | | | | | 100 m | Ω max. | | | | | | |
| Operatir | ng force | 0.98 N | 1.47 N | 2.55 N | 1.76 N | 1.27 N | 2.55 N | 1.27 N | 1.27 N | 0.98 N | 1.47 N | 2.55 N | 1.76 N | 0.98 N | 1.47 N |
| Durabilit | iy | 1,000,000 operations min. | 300,000 operations min. | 100,000 operations min. | 300,000 operations min. | 3,000,000 operations min. | 1,000,000 operations min. | 10,000,000 operations min. | 10,000,000 operations min. | 1,000,000 operations min. | 300,000 operations min. | 100,000 operations min. | 300,000 operations min. | 1,000,000 operations min. | 300,000 operations min. |
| | Flat type (height:4.3 mm) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | 0 | 0 |
| | Flat type (height:5.0 mm) | 0 | 0 | 0 | 0 | | | | | 0 | 0 | 0 | 0 | 0 | 0 |
| Plunger | Flat type (height:9.5 mm) | 0 | 0 | 0 | 0 | | | | | | | | | | |
| | Projected type (height:7.3 mm) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | 0 | 0 |
| | Others | | | | | | | | | | | | | | |
| Degree | Degree of protection IEC IP00 | | | | | | | | | | | | | | |
| | of protection | | | | | | | | | | | | | | |
| Washing |] | | | | | | | | IP00 | | | | | | |
| Ambient tempera | d toperating ture | | | | | | | IEC | IP00 ossible | | | | | | |
| Ambient tempera | g t operating ture t operating | | | | | | | IEC Not po | IP00 ossible +70°C | | | | | | |
| Ambient tempera Ambient | t operating ture t operating t operating | | | I | | ag | | IEC Not po -25 to | IP00 ossible +70°C | | B | ag | | Radial | taping |
| Ambient tempera Ambient humidity | t operating ture | | (|) | | I | 35 to | IEC Not po -25 to | IP00 ossible +70°C | | B | ag D | | C |) |
| Ambient tempera Ambient humidity Packagii | t operating ture t operating , , ng | | (| I | | I | 35 to | IEC Not pc -25 to 0 85%RH (f | IP00 ossible +70°C | | B | ag | | C | |
| Ambient tempera Ambient humidity Packagii Key top (sold | a operating ture toperating ng 4×4 mm φ6 mm D-shaped | | (|) | | I | 35 to - - | IEC Not pc -25 to > 85%RH (f | IP00 ossible +70°C | | B. ((| ag D | | (|) |
| Ambient tempera Ambient humidity Packagii Key top | a operating ture toperating ng 4×4 mm φ6 mm D-shaped | | |) | | I | 35 to - - | IEC Not pc -25 to > 85%RH (f | IP00 ossible +70°C | | B. ((((| ag 0 | | (|) |
| Ambient tempera Ambient humidity Packagii Key top (sold | a operating ture toperating ng 4×4 mm φ6 mm D-shaped | | ((|)))) | | I | 35 to - - - ((| IEC Not pc -25 to > 85%RH (f | IP00 ossible +70°C | | B. ((((| ag D D D | | (((|))) |

The products with this mark are also available in package reels of 100 pcs.

Tactile Switches (Unsealed)



| | | | Unsealed) | | | | | | | |
|---------------------------|--------------------------------------|------------------------------|----------------------------|----------------------------|------------------------------|---------------------------|---|------------------------------------|--|--|
| Sealed / | unsealed | | | | Unsealed | | | | | |
| Mounting | J | | | | Surface mount | | | | | |
| Model | | | | B3FS | | | B | 3U | | |
| Size | | | 6×6 mm | | 12×1 | 2 mm | 3×2.5 | 5 mm | | |
| Appearar | nce | | | 3 | ۲ | | | | | |
| Series | | | B3FS-1000 | | B3FS | -4000 | B3U-1000 | B3U-3000 | | |
| | | | | | | | Top-operated | Side-operated | | |
| Features | | | •Standard tactile s | witch with surface n | nounting terminals. | | | ounted ideal for sity mounting. | | |
| Contact r | materials | | | Silver plated | | | Silver | plated | | |
| Ratings (| resistive load) | | 1 | to 50 mA, 3 to 24 VI | C | | 1 to 50 mA, | 3 to 12 VDC | | |
| | applicable load ve values) | 10 μA at 1 VDC | | | | | 10 µA a | t 1 VDC | | |
| Contact r (initial val | resistance lues) | | | 100 mΩ max. | | | 100 mΩ max. | | | |
| Operatinę | g force | 0.98 N | 1.47 N | 2.55 N | 1.47 N | 2.55 N | 1.5 N | 1.59 N | | |
| Durability | / | 1,000,000 operations min. | 300,000 operations min. | 100,000 operations min. | 3,000,000 operations min. | 1,000,000 operations min. | 200,000 operations min. | 100,000 operations min. | | |
| | Flat type (height:3.1 mm) | 0 | 0 | 0 | | | | | | |
| | Flat type (height:3.4 mm) | | | | | | | | | |
| Plunger | Flat type (height:4.3 mm) | 0 | 0 | 0 | 0 | 0 | | | | |
| | Flat type (height:5.1 mm) | | | | | | | | | |
| | Projected type (height:7.3 mm) | 0 | 0 | | 0 | 0 | | | | |
| | Others | | | | | | 0 | 0 | | |
| - | of protection | | | IEC IP00 | | | IEC | IP40 | | |
| Washing | | | | Not possible | | | Not po | ossible | | |
| Ambient (| operating ure | | | -25 to +70°C | | | -25 to | +70°C | | |
| Ambient humidity | operating | | 35 to | 85%RH (for +5 to + | 35°C) | | 35 to 85%RH (f | or +5 to +35°C) | | |
| Packagin | ng | E | ag/Embossed tapin | g | Emboss | ed taping | Embosse | ed taping | | |
| | 4×4 mm | | 0 | | - | | - | - | | |
| | φ6 mm | | 0 | | - | - | - | | | |
| Key top (sold | D-shaped | | 0 | | - | - | - | | | |
| (sold separately) | 9×9 mm | | | | (| | high-densit Silver pla 1 to 50 mA, 3 tr 10 μA at 1 100 mΩ m 000 200,000 s min. 200,000 s min. | | | |
| | 12×12 mm | | | | (|) | - | | | |
| | φ9.5 mm | | | | (|) | - | | | |

Tactile Switches (Unsealed)



| Sealed | / unseal | ed | | | | Unsealed | | | | | |
|----------------------|------------------------|-------------------|--|-------------------------|--------------|--------------------|-----------|-----------|----------------------------|--|--|
| Mounti | ng | | | | | Surface mount | | | | | |
| Model | | | | | | B3AL | | | | | |
| Size | | | | | | 6×6.9 mm | | | | | |
| Appear | ance | | | | | 5mm | | | | | |
| Series | | | B3AL-1000 | B3AL-1001 | B3AL-1002 | B3AL-1003 | B3AL-1006 | B3AL-1005 | B3AL-1004 | | |
| Feature | es | | •Long-stroke tactile switch with high operating force and high durability. | | | | | | | | |
| Contac | t materia | ls | | Silver plated | | | | | | | |
| Ratings | s (resistiv | e load) | | 1 to 50 mA, 5 to 16 VDC | | | | | | | |
| | im applic nce value | able load es) | | | | | | | | | |
| Contac (initial \ | t resistar /alues) | ice | 100 mΩ max. | | | | | | | | |
| Operat | ing force | | 1.96 N | 2.45 N | 3.0 N | 3.5 N | 4.0 N | 4.5 N | 5.0 N | | |
| Durabil | ity | | | | 1,000,000 op | perations min. | | | 500,000 operations min. | | |
| | | Long-stroke | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| Plunger | Others | Middle- stroke | | | 0 | 0 | | | | | |
| Degree | e of prote | ction | | | | IEC IP00 | | | | | |
| Washin | ng | | | | | Not possible | | | | | |
| Ambier temper | nt operati ature | ng | | | | -40 to +90°C | | | | | |
| Ambier | nt operati | ng humidity | | | 35 to | 85%RH (for +5 to + | 35°C) | | | | |
| Packag | ging | | | | E | Bag/Embossed tapin | g | | | | |
| | | | | | | | | | | | |

| Tact | tile Swit | ches (se | ealed) | | | | | | h this mark are also age reels of 100 pcs. | |
|----------------------------|-----------------------------------|--------------------------------------|----------------|---|------------------------------|---------------------------------------|----------------------------|--|---|--|
| Sealed / u | unsealed | | | | Sea | aled | | | | |
| Mounting | | | Through-ho | ole mounting | | | Surface mount | | | |
| Model | | | B | 3W | | B | 3S | B3 | SN | |
| Size | | 6×6 | mm | 12×1 | 2 mm | 6×6 | mm | 6×6 | mm | |
| Appearan | ice | | | Areas Areas | | Ş | 4.3 mm | 3.1 mm | | |
| Series | | B3W | -1000 | B3W | -4000 | B3S- | -1000 | - | | |
| Features | | | | rough-hole termina ble operation in lo | | •Surface mountin switch with seale | | •Surface mounting switch with seale | | |
| Contact n | naterials | Silver plated | | | | Silver | plated | Silver plated | Gold plated | |
| Ratings (resistive load) | | | 1 to 50 mA, | 3 to 24 VDC | | 1 to 50 mA, | 3 to 24 VDC | 1 to 50 mA, | 3 to 24 VDC | |
| Minimum (reference | applicable load e values) | | 10 µA a | at 1 VDC | | 10 µA a | it 1 VDC | 10 µA at 1 VDC | | |
| Contact re (initial val | | | 100 mΩ max. | | | | Ω max. | 100 m! | Ω max. | |
| Operating | g force | 1.57 N max. | 2.26 N max. | 1.96 N max. | 3.43 N max. | 1.57 N max. | 2.26 N max. | 1.57 N | 1.76 N | |
| Durability | | 1,000,000 300,000 operations min. | | 3,000,000 operations min. | 1,000,000 operations min. | 500,000 operations min. | 300,000 operations min. | 100,000 ope | erations min. | |
| | Flat type (height:3.1 mm) | | | | | | | 0 | 0 | |
| | Flat type (height:3.4 mm) | | | | | | | | | |
| Plunger | Flat type (height:4.3 mm) | 0 | 0 | 0 | 0 | 0 | 0 | | | |
| | Flat type (height:5.0 mm) | 0 | 0 | | | | | | | |
| | Projected type (height:7.3 mm) | 0 | 0 | 0 | 0 | | | | | |
| | Others | | | | | | | | | |
| Degree of | f protection | | IEC | IP67 | | IEC | IP67 | IEC | IP67 | |
| Washing | | | Pos | sible | | Pos | sible | Pos | sible | |
| Ambient of temperatu | | | -25 to | +70°C | | -25 to | + 70°C | | +70°C | |
| Ambient of | operating humidity | | 35 to 85%RH (1 | for +5 to +35°C) | | 35 to 85%RH (1 | for +5 to +35°C) | | or +5 to +35°C) | |
| Packagin | g | | B | ag | | Bag/Embo | ssed taping | Bag/Embossed taping | Embossed taping | |
| | 4×4 mm | (| > | - | | - | | - | | |
| | φ6 mm | (|) | - | | - | | - | | |
| Key top (sold | D-shaped | (|) | - | | - | | - | | |
| separately) | 9×9 mm | - | | (| C | - | | - | | |
| | 12×12 mm | - | | (| C | - | | - | | |
| | φ9.5 mm | - | | (| C | - | | | | |

Tactile Switches (Sealed)



| Sealed / | unsealed | | Sea | aled | | |
|--------------------------|-----------------------------------|---|---------------------------------|---|--|--|
| Mounting |] | | Surface | e mount | | |
| Model | · | B3 | SL | B3SE | | |
| Size | | 6×6 | mm | 6×6 mm | | |
| Appeara | nce | 3.4 mm | 5.1 mm | | | |
| Features | | •Surface mounting tac structure and middle | tile switch with sealed stroke. | •6×6 mm surface mounting tactile switch with high durability, ultra thin, and sealed structure. | | |
| Contact r | materials | Silver | plated | Silver plated | | |
| Ratings (| resistive load) | 1 to 50 mA, | 3 to 12 VDC | 1 to 50 mA at 3 to 12 VDC | | |
| | applicable load values) | 10 µA a | t 1 VDC | 10 µA at 1 VDC | | |
| Contact r (initial va | resistance lues) | 100 m! | Ω max. | 100 mΩ max. | | |
| Operating | g force | 1.96 N 3.5 N | | 1.96 N | | |
| Durability | / | 100,000 ope | erations min. | 1,000,000 operations min. | | |
| | Flat type (height:3.1 mm) | | | | | |
| | Flat type (height:3.4 mm) | 0 | 0 | | | |
| Plunger | Flat type (height:4.3 mm) | | | | | |
| . lange | Flat type (height:5.1 mm) | 0 | 0 | | | |
| | Projected type (height:7.3 mm) | | | | | |
| | Others | | | O height : 2 mm | | |
| Degree c | of protection | IEC | IP67 | IEC IP67 | | |
| Washing | | Not po | ossible | Not possible | | |
| Ambient op | perating temperature | -25 to | +90°C | -25 to + 70°C | | |
| Ambient o | perating humidity | 35 to 85%RH (f | or +5 to +35°C) | 35 to 85%RH (for +5 to +35°C) | | |
| Packagin | ıg | Embosse | ed taping | Embossed taping | | |

| Sealed / | unsealed | Sea | aled | | |
|-----------------------------|-----------------------------------|--|---------------------|--|--|
| Mounting | l | Through-ho | le mounting | | |
| Model | | B3' | WN | | |
| Size | | 8×8 | mm | | |
| Appeara | nce | • | | | |
| Features | | Top class indus performance wi Compatible with | th double seals | | |
| Contact r | materials | Silver | plated | | |
| Ratings (| resistive load) | 1 to 50 mA, | 3 to 12 VDC | | |
| | applicable load e values) | 10 µA at 1 VDC | | | |
| Contact re (initial valu | | 100 mΩ max. | | | |
| Operating | g force | 1.96 N | 2.55 N | | |
| Durability | 1 | 100,000 operations min. | | | |
| | Flat type (height:4.3 mm) | | | | |
| | Flat type (height:5.0 mm) | | | | |
| Plunger | Flat type (height:9.5 mm) | | | | |
| | Projected type (height:7.3 mm) | | | | |
| | Others | ⊖ height : 13 mm | ⊖ height : 13 mm | | |
| Degree c | of protection | IEC | IP67 | | |
| Washing | | Pos | sible | | |
| Ambient op | perating temperature | -25 to | + 80°C | | |
| Ambient o | perating humidity | 35 to 85%RH (f | or +5 to +35°C) | | |
| Packagin | g | Radial | taping | | |

Tactile Switch Key Top

| Classifications | | | Key | top | | | |
|-----------------|--------|---|----------------------|--|----------|---------|--|
| Model | | | B | 32 | | | |
| Applicable type | | 6×6 mm switches 3000 / -3000-G / -6000 / I | 33W-1000 / B3FS-1000 | 12×12 mm switches B3F-4000 / -5000 / -5001 / B3W-4000 / B3FS-4000 | | | |
| Color Size | 4×4 mm | φ6 mm | D type | 9×9 mm | 12×12 mm | φ9.5 mm | |
| lvory | 0 | 0 | 0 | 0 | 0 | 0 | |
| Black | 0 | 0 | 0 | 0 | 0 | 0 | |
| Orange | 0 | | | 0 | 0 | 0 | |
| Yellow | 0 | | | 0 | 0 | 0 | |
| Blue | 0 | | | 0 | 0 | | |
| Green | 0 | | | 0 | 0 | | |
| White | 0 | | | 0 | 0 | | |
| Red | 0 | | | 0 | 0 | | |

Rocker Switches



| Classificati | ons | Miniature Roo | cker Switches | Illuminated Ro | cker Switches |
|----------------------------|----------------|---|-----------------------------|---|---|
| Model | | A | 3L | A | 3A |
| Appearanc | e | 5.6 16.5 | 15 | | 32 25 |
| Features | | Miniature rocker switch for | or high capacity switching. | •Illuminated Ro | cker Switches. |
| | | SPST | DPST | DP | ST |
| Contact for | m | 2 | | Non-illuminated | Illuminated |
| Case color | | Bla | ack | White / Bla | ack / Gray |
| Cap color | | Bla | ack | Non-illuminated:Wh Illuminated:Red/Gro | ite/Red/Green/Blue/Yellow/Black een/Orange |
| Marking | | With / V | Vithout | With / V | Vithout |
| Ratings (re | esistive load) | 10 A at 2 10 A at 2 | | 16 A at 2 16 A at 1 | |
| Inrush curr | ent | 100 A | max. | 100 A | max. |
| Operating 1 | force | SPST : DPST : | | 19.6 N | I max. |
| Durability | Mechanical | 50,000 ope | rations min. | 40,000 oper | rations min. |
| | Electrical | 10,000 ope | | 20,000 ope | |
| Protection | of Degree | IEC | IP40 | IEC | IP40 |
| Terminals | | Solder / PCB / Qui | ck-connect (#187) | Quick-conr | nect (#250) |
| Ambient op temperatur | - | -20 to | +55°C | -20 to | +50°C |
| Ambient op humidity | perating | 45 to 85%RH (f | or +5 to +35°C) | 45 to 85%RH (f | or +5 to +35°C) |
| | UL | • | | • | |
| Approved standard | CSA | (| | | |
| standard | EN | (| | | |
| Optional ac (sold separ | | | | A8A-RUB | BER CAP |

Rocker Switches

| Classificatio | ons | | Rocker Switches | with reset function | | | | | |
|---------------------------|---------------|---|---|--|--|--|--|--|--|
| Model | | | A8 | GS | | | | | |
| Appearance | e | 30 17 28.5 | | | | | | | |
| Features | | | ·Small size rocker swi | tch with reset function. | | | | | |
| | | SP | ST | DP | ST | | | | |
| | | With reset function | Without reset function | With reset function | Without reset function | | | | |
| Contact form | | Micro load contact terminal×1 | Micro load contact terminal×1 a ■ → → ■ b Power contact terminal×1 1 ■ → → ■ 2 | Micro load contact terminal×1 Power contact terminal×1 + 1 1 1 2 - a a - b Power contact terminal×2 + 1 1 2 - 3 - 4 | Micro load contact terminal×1 Power contact terminal×1 1 = = 2 a = = b Power contact terminal×2 1 = - = - = 2 3 = - = - = 4 | | | | |
| Case color | | Black | | | | | | | |
| Cap color | | | Bla | ack | | | | | |
| Marking | | | With / | Without | | | | | |
| Ratings (re | sistive load) | | Micro load contact : 0.2 A | 50 VAC / 16 A at 125 VAC A at 5 VDC 5 VDC / 300 mA at at 3.3 VDC | | | | | |
| Inrush curre | ent | | 117 A max. (F | Power contact) | | | | | |
| Operating f | force | I | | ver contact SPST : 1.5 N / DPST 2.0 N | | | | | |
| Durability | Mechanical | | Coil operation : 10, | 0,000 operations min. | | | | | |
| Protection of | Electrical | | | 0,000 operations min. IP40 | | | | | |
| Terminals | 0. Dogice | Micro load contact terminal : CT o Power contact terminal : Quick-co | | | | | | | |
| Ambient op temperature | • | | | +55°C | | | | | |
| Ambient op humidity | perating | | 90%RH max. (f | for +5 to +35°C) | | | | | |
| Approved st | tandard | See "Information on Standards of | certification/conformity" (available or | n the website) for information on the a | vailability of certified standards. | | | | |

| | out | | Round (12dia.) | | Round (8dia.) | Round (16dia.) | Square |
|--------------------------------|--|--|--|--|---|---|--|
| Model | | A3C | A3D | M2C | M2D | A16□-P | A3A |
| Appearance | се | 1 | 1 | 1 | 1 | | |
| Features | | •Pushbutton switch (illuminated/non- illuminated) with cylindrical 12dia. body. | Pushbutton switch (illuminated) with cylindrical 8dia. body. Indicator with cylindrical 12dia. body. | | •Indicator with cylindrical 8dia. body. | •Pushbutton switch (illuminated/non- illuminated) with cylindrical 16dia. body and PCB terminals. | *Lighted pushbutton switch with square body. |
| Body | | 20 mm | 18 mm | 20 mm | 18 mm | 21 mm | 12.5 mm |
| Shape of p | pushbutton | Rectangular Square Round | Rectangular Square Round | Rectangular Square Round | Rectangular Square Round | Rectangular Square Round | Square Round |
| Color of | Illuminated LED / Incandescent lamp Red Green Yellow Pure Blue | | LED / Incandescent lamp Red Green White Yellow | LED / Incandescent lamp Red Green Yellow Pure Blue | LED / Incandescent lamp Red Green White Yellow | LED lamp Red Green Yellow Pure Blue Pure White | LED lamp Red Green Yellow |
| Color of pushbutton | Non- Illuminated | Red Green Yellow White Blue Black | | | | Red Green Yellow Pure White Blue Black Pure Yellow | Red Green Yellow Light gray Blue Black Gray Dark gray |
| Contact fo | orm | SPDT | SPDT | | | DPDT / SPDT | SPDT / SPST-NO |
| Action | | Momentary Momentary Alternate Alternate | | | | Momentary Alternate | Momentary Alternate |
| Operating | force | 2.45 N max. | 2.45 N max. | | | P40 : 4.41 N max. IP66 : 4.91 N max. | 2.45 N max. |
| Ratings (resistive load) | Standard load | 0.5 A at 250 VAC 1 A at 125 VAC 1 A at 30 VDC | | | | 3 A at 250 VAC 5 A at 125 VAC 3 A at 30 VDC | SPST-NO : 2 A at 250 VAC 6 A at 125 VAC 4 A at 30 VDC SPDT : 3 A at 125 VAC 2 A at 30 VDC |
| | Micro load | 0.1 A at 125 VAC 0.1 A at 30 VDC | 0.1 A at 30 VDC | | | | |
| Minimum a load | applicable | 1 mA at 5 VDC | 1 mA at 5 VDC | | | 1 mA at 5 VDC | 1 mA at 5 VDC |
| Durability | | 100,000 operations min. | 100,000 operations min. | | | 100,000 operations min. | 50,000 operations min |
| Degree of | protection | IEC IP40 | IEC IP40 | IEC IP40 | IEC IP40 | IEC IP40/66 | IEC IP40 |
| Terminals | | Solder | Solder | Solder | Solder | РСВ | Solder PCB |
| Ambient o temperatu | | -10 to +55°C | -10 to +55°C | -10 to +55°C | -10 to +55°C | -10 to +55°C | -10 to +55°C |
| Ambient operating | | 35 to 85%RH | 35 to 85%RH | 35 to 85%RH 35 to 85%RH | | 35 to 85%RH | 35 to 85%RH |

21

Pushbutton Hand Switches



| Model | | C2U | C2 | UW | | |
|--------------------------------|---------------------|--|---|---|--|--|
| Appearance | | 6 | | | | |
| Series | | | C2UW-D | C2UW-L | | |
| Features | | •Double action hand switch. | •Double action hand switch with a sub switch. | •Wireless •Double action hand switch with a sub switch. | | |
| Body | | 105 mm | 167.5 | 3 mm | | |
| Shape of pus | hbutton | Round | Round | | | |
| Color of | Illuminated | | | | | |
| pushbutton | Non- Illuminated | Non-illuminated | Non-illuminated | | | |
| Contact form | | DPST | Main switch : DPST Sub switch : SPST-NO | | | |
| Action | | Momentary | Momentary | | | |
| Operating for | ce | 1st stage : 4.9 N 2nd stage : 15.69 N | Main switch 1st stage : 4.7 N 2nd stage : 12.6 N Sub switch : 4 N max. | | | |
| Ratings (resistive load) | Standard load | 2 A at 30 VDC 2 A at 125 VAC | Main switch : 0.1 A at 30 VDC Sub switch : 1 to 50 mA, 3 to 24 VDC | | | |
| igs tive 1) | Micro load | | | | | |
| Minimum app | blicable load | | Main switch : 1 mA at 5 VDC Sub switch : 10 μA at 1 VDC | | | |
| Durability | | 200,000 operations min. | Main switch : 400,000 operations min. (Load condition : 10 mA at 14 VDC) Sub switch : 400,000 operations min. | Main switch : 400,000 operations min. Sub switch : 400,000 operations min. | | |
| Degree of pro | otection | IEC IP00 | IEC IP00 | IEC IP00 | | |
| Terminals | | Lead wire | Lead wire | Holder Connector | | |
| Ambient oper temperature | rating | -10 to +40°C | 0 to + | +40°C | | |
| Ambient oper humidity | rating | 75%RH max. (for +5 to +35°C) | 90%RH max. (f | for +5 to +35°C) | | |
| Approved sta | Indard | See "Information on Standards certificat | ion/conformity" (available on the website) for standards. | information on the availability of certified | | |

Toggle/Pushbutton Switches

| Name | | | | Тод | ıgle | | | |
|------------------------------|------------|---|-----------------|-------------------------|-----------------|-----------------|------------------|--|
| Model | | | | A9 | TS | | | |
| Terminals | | DIP Terminal | | | Angle ninal | | l Mount ninal | |
| Appearanc | e | Apres Office | | | | | | |
| Features | | ·Ultra | a-compact | push swite wash | | l insertion | type, | |
| Contact ma | aterial | | | Gold | plated | | • | |
| Contact for | m | SPDT DPDT SPDT DPDT SPDT DPE | | | | | | |
| | | A9TS11- 0011 | A9TS21- 0011 | A9TS11- 0012 | A9TS21- 0012 | A9TS11- 0013 | A9TS21- 0013 | |
| Cuitching | | | | | | | | |
| Switching I | uncuons | A9TS12- 0011 A9TS22- 0011 A9TS12- 0012 A9TS22- 0012 A9TS12- 0013 A9TS22- 0013 | | | | | | |
| | | ON OFF ON | | | | | | |
| Operating | force | 4.9 N max. | | | | | | |
| Ratings (resistive lo | oad) | | | 14 mA at 2 nimum cur | | | ; | |
| Contact res (initial valu | | 80 mΩ max. | | | | | | |
| Durahilita | Mechanical | | | 0.000 | | | | |
| Durability | Electrical | | 5 | 60,000 ope | rations mir | 1. | | |
| Degree of | protection | | | IEC | IP64 | | | |
| Washing | | | | Pos | sible | | | |
| Ambient op temperatur | • | -20 to +80°C | | | | | | |
| Ambient op humidity | perating | | 45 to | 85%RH (f | or +5 to +3 | 35°C) | | |

| Name | | | | Pushl | outton | | | | |
|------------------------------|------------|---|---|-----------------|-----------------|-----------------|------------------|--|--|
| Model | | | | A9 | PS | | | | |
| Terminals | | DIP Te | erminal | | Angle ninal | | l Mount ninal | | |
| Appearan | ce | ST APPS I APPS I OFFIC | | | | | | | |
| Features | | ·Ultra | •Ultra-compact push switch of board insertion type, washable | | | | | | |
| Contact m | naterial | Gold plated | | | | | | | |
| Contact fo | orm | SPST | DPST | SPST | DPST | SPST | DPST | | |
| | | A9PS16- 0011 | A9PS26- 0011 | A9PS16- 0012 | A9PS26- 0012 | A9PS16- 0013 | A9PS26- 0013 | | |
| Switching | Functions | OFF ON | | | | | | | |
| Action | | Momentary | | | | | | | |
| Operating | force | 4.9 N max. | | | | | | | |
| Ratings (resistive | load) | 14 mA at 28 VAC/DC 0.1 μA (minimum current) at 20 mAC/DC | | | | | | | |
| Contact re (initial value | | | | 80 mΩ | Ω max. | | | | |
| Durability | Mechanical | | 5 | 0.000 ana | rations mir | | | | |
| Durability | Electrical | | | o,000 ope | | | | | |
| Degree of | protection | | | IEC | IP64 | | | | |
| Washing | | | | Pos | sible | | | | |
| Ambient of temperatu | | -20 to +80°C | | | | | | | |
| Ambient of humidity | operating | | 45 to | 85%RH (f | or +5 to +3 | 35°C) | | | |

Slide DIP Switches





| Mounting | | | | Surface r | mounting | | | | | |
|--------------------|---------------------|--|---|---|------------------------------|-------------------|-------------|--|--|--|
| Model | | | | A6 | 6H | | | | | |
| Terminal pitch | | | | 1.27 mm (| Half pitch) | | | | | |
| Appearance | | | Contraction Contraction | | | | | | | |
| Features | | | | ·Slide DIP switch with | ultra low profile,1.55 mr | n and half pitch. | | | | |
| Actuator types | S | | Flat actuator | | Flat actuator with seal tape | | | | | |
| Packaging | | Tube | Embossed taping standard reel (4,000 pcs) | Embossed taping small reel (500 pcs) | | | | | | |
| Contact mater | rial | | | Gold p | plated | | | | | |
| Ratings (resis | stive load) | 25 mA at 24 VDC / 10 μA (minimum current) at 3.5 VDC | | | | | | | | |
| Contact resistance | ce (initial values) | 200 mΩ max. | | | | | | | | |
| | 1 | | | | | | | | | |
| | 2 | A6H-2101 | A6H-2101-P | A6H-2101-PM | A6H-2102 | A6H-2102-P | A6H-2102-PM | | | |
| | 3 | | | | | | | | | |
| | 4 | A6H-4101 | A6H-4101-P | A6H-4101-PM | A6H-4102 | A6H-4102-P | A6H-4102-PM | | | |
| No. of solo | 5 | | | | | | | | | |
| No. of poles | 6 | A6H-6101 | A6H-6101-P | A6H-6101-PM | A6H-6102 | A6H-6102-P | A6H-6102-PM | | | |
| | 7 | | | | | | | | | |
| | 8 | A6H-8101 | A6H-8101-P | A6H-8101-PM | A6H-8102 | A6H-8102-P | A6H-8102-PM | | | |
| | 9 | | | | | | | | | |
| | 10 | A6H-0101 | A6H-0101-P | A6H-0101-PM | A6H-0102 | A6H-0102-P | A6H-0102-PM | | | |
| Durability | | | | 1,000 oper | ations min. | | | | | |
| Washing | | | Not possible | | | Possible | | | | |
| Degree of pro | tection | | | IEC | IP40 | | | | | |
| Ambient operatin | ig temperature | | | -20 to | +70°C | | | | | |
| Ambient operat | ting humidity | | | 35 to 95%RH (f | or +5 to +35°C) | | | | | |

| F Tube | A6HF 1.27 mm (Half pitch) the swith a height of 2.3 mm Flat actuator with seal tape Embossed taping standard reel (2,000 pcs) | e Embossed taping small | | A6S-H 2.54 mm (Standard pitch) Control Surface mounting slide DI shable, with seal tape avail Flat actuator | P switches. | |
|----------------|--|--|--|---|---|--|
| F Tube | hes with a height of 2.3 m lat actuator with seal tape Embossed taping standard reel (2,000 pcs) | m and half pitch. e Embossed taping small | | surface mounting slide DI shable, with seal tape avail Flat actuator | P switches. | |
| F Tube | Flat actuator with seal tape Embossed taping standard reel (2,000 pcs) | m and half pitch. e Embossed taping small | | shable, with seal tape avail Flat actuator | P switches. | |
| F Tube | Flat actuator with seal tape Embossed taping standard reel (2,000 pcs) | e Embossed taping small | | shable, with seal tape avail Flat actuator | | |
| Tube | Embossed taping standard reel (2,000 pcs) | Embossed taping small | | | | |
| | reel (2,000 pcs) | | | | | |
| | | reel (500 pcs) | | | Embossed taping small reel (400 pcs) | |
| | Gold plated | | | Gold plated | | |
| 25 mA at 24 VE | DC / 10 µA (minimum curre | ent) at 3.5 VDC | 25 mA at 24 V | DC / 10 μA (minimum curr | ent) at 3.5 VDC | |
| | 200 mΩ max. | | 200 mΩ max. | | | |
| | | | A6S-1101-H | A6S-1101-PH | | |
| A6HF-2102 | A6HF-2102-P | A6HF-2102-PM | A6S-2101-H | A6S-2101-PH | | |
| | | | A6S-3101-H | A6S-3101-PH | A6S-3101-PMH | |
| A6HF-4102 | A6HF-4102-P | A6HF-4102-PM | A6S-4101-H | A6S-4101-PH | A6S-4101-PMH | |
| | | | A6S-5101-H | A6S-5101-PH | | |
| A6HF-6102 | A6HF-6102-P | A6HF-6102-PM | A6S-6101-H | A6S-6101-PH | A6S-6101-PMH | |
| | | | A6S-7101-H | A6S-7101-PH | | |
| A6HF-8102 | A6HF-8102-P | A6HF-8102-PM | A6S-8101-H | A6S-8101-PH | A6S-8101-PMH | |
| | | | A6S-9101-H | | | |
| A6HF-0102 | A6HF-0102-P | A6HF-0102-PM | A6S-0101-H | | A6S-0101-PMH | |
| | 1,000 operations min. | | | 1,000 operations min. | | |
| | Possible | | | Not possible | | |
| | IEC IP40 | | | IEC IP40 | | |
| | -30 to +85°C | | | -20 to +70°C | | |
| 35 | to 95%RH (for +5 to +35° | °C) | 3 | 5 to 95%RH (for +5 to +35 | °C) | |
| | A6HF-2102 A6HF-4102 A6HF-6102 A6HF-8102 A6HF-0102 35 | 200 mΩ max. A6HF-2102 A6HF-2102-P A6HF-4102 A6HF-4102-P A6HF-6102 A6HF-6102-P A6HF-6102 A6HF-6102-P A6HF-8102 A6HF-8102-P A6HF-0102 A6HF-0102-P A6HF-0102 A6HF-0102-P A6HF-0102 A6HF-0102-P A6HF-0102 A6HF-0102-P 1,000 operations min. Possible IEC IP40 -30 to +85°C | A6HF-2102 A6HF-2102-P A6HF-2102-PM A6HF-4102 A6HF-4102-P A6HF-4102-PM A6HF-6102 A6HF-6102-P A6HF-6102-PM A6HF-6102 A6HF-6102-P A6HF-6102-PM A6HF-8102 A6HF-8102-P A6HF-8102-PM A6HF-8102 A6HF-8102-P A6HF-8102-PM A6HF-0102 A6HF-0102-P A6HF-0102-PM A6HF-0102 A6HF-0102-P A6HF-0102-PM 1,000 operations min. Possible IEC IP40 30 to +85°C 35 to 95%RH (for +5 to +35°C) | 200 mΩ max. A6S-1101-H A6S-2101-H A6HF-2102 A6HF-2102-P A6HF-2102-PM A6S-2101-H A6S-3101-H A6S-3101-H A6S-3101-H A6S-3101-H A6HF-4102 A6HF-4102-P A6HF-4102-PM A6S-3101-H A6HF-6102 A6HF-6102-P A6HF-6102-PM A6S-5101-H A6HF-6102 A6HF-6102-P A6HF-6102-PM A6S-6101-H A6S-7101-H A6HF-8102 A6HF-8102-P A6HF-8102-PM A6S-8101-H A6S-7101-H A6HF-8102 A6HF-8102-P A6HF-8102-PM A6S-8101-H A6S-9101-H A6S-9101-H A6HF-0102 A6HF-0102-P A6HF-0102-PM A6S-0101-H 1,000 operations min. A6S-0101-H IEC IP40 -30 to +85°C | 200 mΩ max. 200 mΩ max. A6S-1101-H A6S-1101-PH A6HF-2102 A6HF-2102-P A6HF-2102-PM A6S-2101-H A6S-2101-PH A6S-3101-H A6S-3101-PH A6S-3101-PH A6S-3101-H A6S-3101-PH A6S-3101-PH A6S-3101-H A6S-3101-PH A6S-3101-PH A6HF-4102 A6HF-4102-P A6HF-4102-PM A6S-3101-H A6S-3101-PH A6HF-6102 A6HF-6102-P A6HF-6102-PM A6S-6101-H A6S-6101-PH A6S-7101-H A6S-7101-PH A6HF-6102 A6HF-6102-P A6HF-6102-PM A6S-6101-H A6S-6101-PH A6S-7101-H A6S-7101-PH A6HF-8102 A6HF-8102-P A6HF-8102-PM A6S-8101-H A6S-8101-PH A6S-9101-H A6HF-0102 A6HF-0102-P A6HF-0102-PM A6S-0101-H | |

e: Default actuator setting is OFF for Slide DIP Switches and Piano DIP Switches. Be sure to read the Safety precautions common to all DIP Switches for correct use.

| | | | | | | | ducts with this mark are also e in package reels of 100 pcs. | | | |
|--------------------|--------------------|---|---|---|-----------------|---|---|--|--|--|
| Mounting | | | | Surface r | nounting | | | | | |
| Model | | A6S-H | | | | | | | | |
| Terminal pitch | | 2.54 mm (Standard pitch) | | | | | | | | |
| Appearance | | | | | | | • | | | |
| Features | | | | •Standard surface moun Washable, with se | | | | | | |
| Actuator types | | | Raised actuator | | | | | | | |
| Packaging | | Tube | Embossed taping standard reel (800/900 pcs) | Embossed taping small reel (400 pcs) | Tube | Embossed taping standard reel (700/800 pcs) | Embossed taping small reel (400 pcs) | | | |
| Contact materia | al | | | Gold p | plated | | | | | |
| Ratings (resisti | ive load) | 25 mA at 24 VDC / 10 μA (minimum current) at 3.5 VDC | | | | | | | | |
| Contact resistance | e (initial values) | | | 200 mG | Ω max. | | | | | |
| | 1 | A6S-1102-H | A6S-1102-PH | | A6S-1104-H | A6S-1104-PH | | | | |
| | 2 | A6S-2102-H | A6S-2102-PH | A6S-2102-PMH | A6S-2104-H | A6S-2104-PH | | | | |
| | 3 | A6S-3102-H | A6S-3102-PH | | A6S-3104-H | A6S-3104-PH | | | | |
| | 4 | A6S-4102-H | A6S-4102-PH | A6S-4102-PMH | A6S-4104-H | A6S-4104-PH | A6S-4104-PMH | | | |
| No. of poloo | 5 | A6S-5102-H | A6S-5102-PH | | A6S-5104-H | A6S-5104-PH | | | | |
| No. of poles | 6 | A6S-6102-H | A6S-6102-PH | A6S-6102-PMH | A6S-6104-H | A6S-6104-PH | A6S-6104-PMH | | | |
| | 7 | A6S-7102-H | A6S-7102-PH | | A6S-7104-H | A6S-7104-PH | | | | |
| | 8 | A6S-8102-H | A6S-8102-PH | A6S-8102-PMH | A6S-8104-H | A6S-8104-PH | A6S-8104-PMH | | | |
| | 9 | A6S-9102-H | A6S-9102-PH | | A6S-9104-H | A6S-9104-PH | | | | |
| | 10 | A6S-0102-H | A6S-0102-PH | A6S-0102-PMH | A6S-0104-H | A6S-0104-PH | A6S-0104-PMH | | | |
| Durability | | | | 1,000 opera | ations min. | | | | | |
| Washing | | | Possible | | | Not possible | | | | |
| Degree of prote | ection | | | IEC I | IP40 | | | | | |
| Ambient operating | temperature | | | -20 to | +70°C | | | | | |
| Ambient operatin | ng humidity | | | 35 to 95%RH (f | or +5 to +35°C) | | | | | |
| Mounting | | | | Surface r | nounting | | | | | |
| Model | | | | A6S | SN | | | | | |

| wounting | | Sunace meaning | | | | | | | | |
|---------------------|----------------------|--|-----------------------|-------------------------------|-----------|--------------------------|--|--|--|--|
| Model | | | | A6SN | | | | | | |
| Terminal pitch | 1 | | | 2.54 mm (Standard pitch) | | | | | | |
| Appearance | | | and the second second | | | | | | | |
| Features | | •Surface mounting slide DIP switch with high contact reliability. Washable, even without seal tape available. | | | | | | | | |
| Actuator type: | S | | Flat actuator | | Rais | ed actuator | | | | |
| Dealeraine | | Tube | Embossed taping st | andard reel (750 pcs) | | Embossed taping standard | | | | |
| Packaging | | Tube | Without seal tape | With seal tape | Tube | reel (700 pcs) | | | | |
| Contact material | | | Gold plated | | | | | | | |
| Ratings (resis | stive load) | 25 mA at 24 VDC / 10 μA (minimum current) at 3.5 VDC | | | | | | | | |
| Contact resistant | ce (initial values) | 200 mΩ max. | | | | | | | | |
| | 1 | A6SN-1101 | | | A6SN-1104 | | | | | |
| | 2 | A6SN-2101 | A6SN-2101-P | A6SN-2102-P | A6SN-2104 | A6SN-2104-P | | | | |
| | 3 | A6SN-3101 | A6SN-3101-P | A6SN-3102-P | A6SN-3104 | A6SN-3104-P | | | | |
| | 4 | A6SN-4101 | A6SN-4101-P | A6SN-4102-P | A6SN-4104 | A6SN-4104-P | | | | |
| No. of poles | 5 | A6SN-5101 | A6SN-5101-P | A6SN-5102-P | A6SN-5104 | A6SN-5104-P | | | | |
| NO. OI POIES | 6 | A6SN-6101 | A6SN-6101-P | A6SN-6102-P | A6SN-6104 | A6SN-6104-P | | | | |
| | 7 | A6SN-7101 | A6SN-7101-P | A6SN-7102-P | A6SN-7104 | A6SN-7104-P | | | | |
| | 8 | A6SN-8101 | A6SN-8101-P | A6SN-8102-P | A6SN-8104 | A6SN-8104-P | | | | |
| | 9 | A6SN-9101 | A6SN-9101-P | A6SN-9102-P | A6SN-9104 | A6SN-9104-P | | | | |
| | 10 | A6SN-0101 | A6SN-0101-P | A6SN-0102-P | A6SN-0104 | A6SN-0104-P | | | | |
| Durability | | | | 1,000 operations min. | | | | | | |
| Washing | | | | Possible | | | | | | |
| Degree of pro | tection | | | IEC IP40 | | | | | | |
| Ambient operatir | ig temperature | | | -30 to +85°C | | | | | | |
| Ambient opera | ting humidity | | | 35 to 95%RH (for +5 to +35°C) |) | | | | | |
| Note: Default actua | tor setting is OFF f | or Slide DIP Switches and Piano DI | P Switches | | | | | | | |

Note: Default actuator setting is OFF for Slide DIP Switches and Plano DIP Switches. Be sure to read the Safety precautions common to all DIP Switches for correct use.

Slide DIP Switches

| Mounting | | | | Through-hole mounting | | |
|--------------------------|--------------------|---------------------------|----------------------------------|--|---------------|-------------------|
| Model | | | A6T | | A | 6TN |
| Terminal pitch | | | 2.54 mm (Standard pitch) | | 2.54 mm (S | tandard pitch) |
| Appearance | | NET TATA | NOTESTIC DE LE CONTRACTOR | NUT TO THE | STATE OF | TATALAN TATALAN |
| Features | | •Standard through-hole mo | unting slide DIP switch. Washabl | Through-hole mounting slide DIP switch with high contact reliability.Washable, even without seal tape available. | | |
| Actuator types | 6 | Flat actuator | Flat actuator with seal tape | Raised actuator | Flat actuator | Raised actuator |
| Packaging | Tube Tube | | ube | | | |
| Contact mater | rial | | Gold plated | Gold | plated | |
| Ratings (resistive load) | | 25 mA at 24 | VDC / 10 µA (minimum current) | 25 mA at 24 VDC / 10 µA (minimum current) at 3.5 VDC | | |
| Contact resistance | e (initial values) | | 200 mΩ max. | 200 mΩ max. | | |
| | 1 | A6T-1101 | A6T-1102 | A6T-1104 | A6TN-1101 | A6TN-1104 |
| | 2 | A6T-2101 | A6T-2102 | A6T-2104 | A6TN-2101 | A6TN-2104 |
| | 3 | A6T-3101 | A6T-3102 | A6T-3104 | A6TN-3101 | A6TN-3104 |
| | 4 | A6T-4101 | A6T-4102 | A6T-4104 | A6TN-4101 | A6TN-4104 |
| No of voloo | 5 | A6T-5101 | A6T-5102 | A6T-5104 | A6TN-5101 | A6TN-5104 |
| No. of poles | 6 | A6T-6101 | A6T-6102 | A6T-6104 | A6TN-6101 | A6TN-6104 |
| | 7 | A6T-7101 | A6T-7102 | A6T-7104 | A6TN-7101 | A6TN-7104 |
| | 8 | A6T-8101 | A6T-8102 | A6T-8104 | A6TN-8101 | A6TN-8104 |
| | 9 | A6T-9101 | A6T-9102 | A6T-9104 | A6TN-9101 | A6TN-9104 |
| | 10 | A6T-0101 | A6T-0102 | A6T-0104 | A6TN-0101 | A6TN-0104 |
| Durability | | | 1,000 operations min. | | 1,000 оре | rations min. |
| Washing | | Not possible | Possible | Not possible | Pos | ssible |
| Degree of prote | ection | | IEC IP40 | | IEC | : IP40 |
| Ambient operatin | g temperature | | -20 to +70°C | | -30 to | o +85°C |
| Ambient operat | ting humidity | | 35 to 95%RH (for +5 to +35°C) | | 35 to 95%RH | (for +5 to +35°C) |

| Mounting | | | Through-hole | mounting | | |
|-------------------------------------|---------------|---|--------------------------|--|---------------|--|
| Model | | A6D | | A6E | -N | |
| Terminal pitch | | 2.54 mm (Stan | dard pitch) | 2.54 mm (Sta | indard pitch) | |
| Appearance | | PREFER. | Norree. | ALL | Constants. | |
| Features | | •Through-hole mounting slide DIP s resistance by seale | | •Box type through-hole mounting slide DIP swi | | |
| Actuator types | 3 | Flat actuator | Raised actuator | Flat actuator Raised actua | | |
| Packaging | | Tube | 9 | Tul | De | |
| Contact material | | Gold pla | ated | Gold p | lated | |
| Ratings (resistive load) | | 30 mA at 30 VDC / 10 μA (min | imum current) at 3.5 VDC | 25 mA at 24 VDC / 10 μA (minimum current) at 3.5 V | | |
| Contact resistance (initial values) | | 100 mΩ | max. | 200 mΩ max. | | |
| | 1 | | | | | |
| | 2 | A6D-2100 | A6D-2103 | A6E-2101-N | A6E-2104-N | |
| | 3 | A6D-3100 | A6D-3103 | A6E-3101-N | A6E-3104-N | |
| | 4 | A6D-4100 | A6D-4103 | A6E-4101-N | A6E-4104-N | |
| | 5 | A6D-5100 | A6D-5103 | A6E-5101-N | A6E-5104-N | |
| No. of poles | 6 | A6D-6100 | A6D-6103 | A6E-6101-N | A6E-6104-N | |
| | 7 | A6D-7100 | A6D-7103 | A6E-7101-N | A6E-7104-N | |
| | 8 | A6D-8100 | A6D-8103 | A6E-8101-N | A6E-8104-N | |
| | 9 | A6D-9100 | A6D-9103 | A6E-9101-N | A6E-9104-N | |
| | 10 | A6D-0100 | A6D-0103 | A6E-0101-N | A6E-0104-N | |
| Durability | | 2,000 operati | ions min. | 1,000 opera | ations min. | |
| Washing | | Possib | ble | Not po | ssible | |
| Degree of prote | ection | Internally sealed (IEC | IP64 equivalency) | IEC I | P40 | |
| Ambient operatin | g temperature | -20 to +7 | 70°C | -20 to +70°C | | |
| Ambient operat | ing humidity | 35 to 95%RH (for | +5 to +35°C) | 35 to 95%RH (for +5 to +35°C) | | |

Note: Default actuator setting is OFF for Slide DIP Switches and Plano DIP Switches. Be sure to read the Safety precautions common to all DIP Switches for correct use.

The products with this mark are also available in package reels of 100 pcs.

Piano DIP Switches

| 同時時時間 |
|--------|
| 國際調整方 |
| |
| |
| 見きを はた |
| 回送法院的研 |

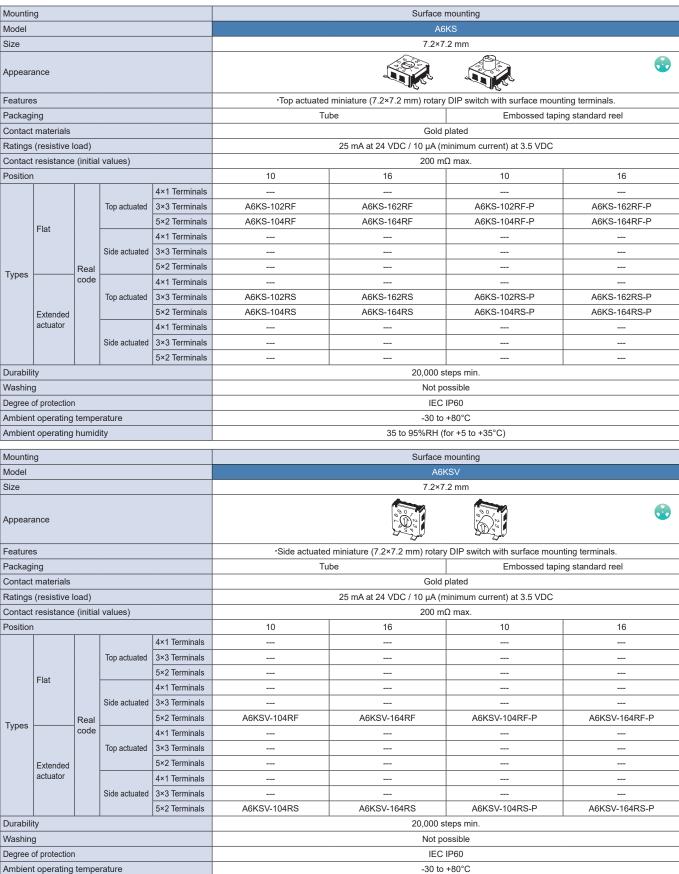
| Mounting | | | | | Surface mounting | | | | | |
|--------------------|--------------------|--|------------------------|-------------------------------|-------------------------------|-----------------------|----------------------|--------------------------|--|--|
| Model | | | A6HR | | | A65 | SR | | | |
| Terminal pitch | | | 1.27 mm (Half pitch) | | | 2.54 mm (Sta | andard pitch) | | | |
| Appearance | | | Inne | • | <u>ប៉ី ម៉ី ម៉ី</u> ទី ចាត្ | <u>ីមី ម៉ឺមី ម៉ឺ</u> | 5555 | | | |
| Features | | Miniature pian | o DIP switch with half | pitch terminals. | ۰Pia | no DIP switch with su | rface mounting term | face mounting terminals. | | |
| Actuator types | 6 | | Long actuator | | Short a | actuator | Long | actuator | | |
| Packaging | | Tube Embossed taping standard reel (1,000 pcs) Embossed taping small reel (500 pcs) Tube Embossed taping standard reel Tube | | Embossed taping standard reel | | | | | | |
| Contact mater | rial | | Gold plated | | | Gold p | plated | | | |
| Ratings (resistiv | ve load) | 25 mA at 24 VD0 | C / 10 µA (minimum cu | rrent) at 3.5 VDC | 25 mA | at 24 VDC / 10 µA (m | inimum current) at 3 | 3.5 VDC | | |
| Contact resistance | e (initial values) | 200 mΩ max. | | | | 200 mΩ max. | | | | |
| | 1 | | | | | | | | | |
| | 2 | A6HR-2104 | A6HR-2104-P | A6HR-2104-PM | A6SR-2101 | A6SR-2101-P | A6SR-2104 | A6SR-2104-P | | |
| - | 3 | | | | | | | | | |
| - | 4 | A6HR-4104 | A6HR-4104-P | A6HR-4104-PM | A6SR-4101 | A6SR-4101-P | A6SR-4104 | A6SR-4104-P | | |
| No. of a close | 5 | | | | | | | | | |
| No. of poles | 6 | A6HR-6104 | A6HR-6104-P | A6HR-6104-PM | A6SR-6101 | A6SR-6101-P | A6SR-6104 | A6SR-6104-P | | |
| - | 7 | | | | | | | | | |
| | 8 | A6HR-8104 | A6HR-8104-P | A6HR-8104-PM | A6SR-8101 | A6SR-8101-P | A6SR-8104 | A6SR-8104-P | | |
| | 9 | | | | | | | | | |
| | 10 | A6HR-0104 | A6HR-0104-P | A6HR-0104-PM | A6SR-0101 | A6SR-0101-P | A6SR-0104 | A6SR-0104-P | | |
| Durability | | | 1,000 operations min. | | | 1,000 oper | ations min. | | | |
| Washing | | | Not possible | | | Not po | ssible | | | |
| Degree of prote | ection | | IEC IP40 | | | IEC | IP40 | | | |
| Ambient operatin | ig temperature | | -30 to +85°C | | | -20 to | +70°C | | | |
| Ambient operat | ting humidity | 35 te | o 95%RH (for +5 to +3 | 5°C) | | 35 to 95%RH (f | or +5 to +35°C) | | | |

| Mounting | | | | Through-hole mounting | | | |
|-------------------|--|----------------------------------|---------------------------------|--|--|---------------------------|--|
| Model | | A6 | TR | A6DR | A6 | FR | |
| Terminal pitch | | 2.54 mm (St | andard pitch) | 2.54 mm (Standard pitch) | 2.54 mm (St | andard pitch) | |
| Appearance | | <u>ÚÚÚÚÚÚ</u> TTTTTT | TTTTT | Sease | Sec. | | |
| Features | | ·Low profile piano DIP s term | switch with through-hole inals. | •Through-hole mounting piano DIP switch with high environmental resistance by sealed construction. | •Box type through-hole m | ounting piano DIP switch. | |
| Actuator types | 6 | Short actuator | Long actuator | Long actuator | Short actuator | Long actuator | |
| Packaging | | Tu | ibe | Box | Tu | be | |
| Contact mater | rial | Gold | plated | Gold plated | Gold | plated | |
| Ratings (resistiv | re load) | 25 mA at 24 VDC / 10 µA (n | ninimum current) at 3.5 VDC | 30 mA at 30 VDC / 10 μA (minimum current) at 3.5 VDC | 25 mA at 24 VDC / 10 μA (minimum current) at 3.5 V | | |
| Contact resistanc | nce (initial values) 200 mΩ max. 100 mΩ max. | | 200 mΩ max. | | | | |
| | 1 | | | | | | |
| | 2 | A6TR-2101 | A6TR-2104 | A6DR-2100 | A6FR-2101 | A6FR-2104 | |
| | 3 | | | | A6FR-3101 | A6FR-3104 | |
| | 4 | A6TR-4101 | A6TR-4104 | A6DR-4100 | A6FR-4101 | A6FR-4104 | |
| Ne of soles | 5 | | | | A6FR-5101 | A6FR-5104 | |
| No. of poles | 6 | A6TR-6101 | A6TR-6104 | A6DR-6100 | A6FR-6101 | A6FR-6104 | |
| - | 7 | | | | A6FR-7101 | A6FR-7104 | |
| | 8 | A6TR-8101 | A6TR-8104 | A6DR-8100 | A6FR-8101 | A6FR-8104 | |
| | 9 | | | | A6FR-9101 | A6FR-9104 | |
| - | 10 | A6TR-0101 | A6TR-0104 | A6DR-0100 | A6FR-0101 | A6FR-0104 | |
| Durability | | 1,000 oper | ations min. | 2,000 operations min. | 1,000 oper | ations min. | |
| Washing | | Not po | ossible | Possible | Not po | ossible | |
| Degree of prote | ection | IEC | IP40 | Internally sealed (IEC IP64 equivalency) | IEC | IP40 | |
| Ambient operatin | ig temperature | -20 to | +70°C | -20 to +70°C | -20 to | +70°C | |
| Ambient operat | ting humidity | 35 to 95%RH (f | for +5 to +35°C) | 35 to 95%RH (for +5 to +35°C) | 35 to 95%RH (for +5 to +35°C) | | |

Note: Default actuator setting is OFF for Slide DIP Switches and Piano DIP Switches. Be sure to read the Safety precautions common to all DIP Switches for correct use.

Rotary DIP Switches





35 to 95%RH (for +5 to +35°C)

The products with this mark are also available in package reels of 100 pcs.

Ambient operating humidity

Note: Default rotor setting is 0 for Rotary DIP Switches.

Be sure to read the Safety precautions common to all DIP Switches for correct use

| | | | | | | . | | |
|---|--|-----------------------------|--|--|--|---|--|--|
| Mountii Model | ng | | | | | | mounting | |
| | | | | | | | RS | |
| Size | | | | | | 9.8×9 | .9 mm | |
| Appear | ance | | | | | R | | |
| Feature | es | | | | | Surface mounting | rotary DIP switch. | |
| Packag | jing | | | | Tut | De | Embossed tapin | g standard reel |
| Contac | t materials | | | | | Gold | plated | |
| Ratings | s (resistive | load) | | | | 25 mA at 24 VDC / 10 µA (n | ninimum current) at 3.5 VDC | |
| Contac | t resistance | e (initial | values) | | | 200 m | Ω max. | |
| Positio | <u>ו</u> | | | | 10 | 16 | 10 | 16 |
| | | | Ten | 4×1 Terminals | A6RS-101RF | A6RS-161RF | A6RS-101RF-P | A6RS-161RF-P |
| | | | Top actuated | 3×3 Terminals | A6RS-102RF | A6RS-162RF | A6RS-102RF-P | A6RS-162RF-P |
| | Flat | | | 5×2 Terminals | | | | |
| | 1 idt | | <u> </u> | 4×1 Terminals | | | | |
| | | | Side actuated | 3×3 Terminals | | | | |
| Types | | Real | | 5×2 Terminals | | | | |
| Types | | code | _ | 4×1 Terminals | A6RS-101RS | A6RS-161RS | A6RS-101RS-P | A6KS-161RS-P |
| | | | Top actuated | 3×3 Terminals | A6RS-102RS | A6RS-162RS | A6RS-102RS-P | A6KS-162RS-P |
| | Extended | | usidated | 5×2 Terminals | | | | |
| | actuator | | | 4×1 Terminals | | | | |
| | | | Side actuated | 3×3 Terminals | | | | |
| | | | actuated | 5×2 Terminals | | | | |
| Durabil | ity | | | | | 5,000 st | eps min. | |
| Washin | g | | | | | Not po | ossible | |
| Degree | of protection | n | | | | IEC | IP60 | |
| Ambier | nt operating | tempe | rature | | | -25 to | +80°C | |
| Ambier | nt operating | humid | i+. , | | | | | |
| | | inanna | ity | | | 35 to 95%RH (1 | for +5 to +35°C) | |
| Mounti | | | ity | | | | | |
| Mountii | ng | | пу | | ٨٥ | Through-ho | le mounting | |
| Model | ng | | | | A | Through-ho 6K | le mounting A6 | KV |
| | | | | | A | Through-ho 6K | le mounting | KV |
| Model Size Appear | ance | | | | N | Through-ho SK 7.2×7 | A6 | |
| Model Size Appear Feature | ance | | | | N | Through-ho SK 7.2×7 | le mounting A6 .2 mm Switch with through-hole termin | |
| Model Size Appear Feature Packag | ance | | | | N | Through-ho SK 7.2×7 With a start of the star | le mounting A6 .2 mm switch with through-hole termini- be | |
| Model Size Appear Feature Packag Contac | ance es jing t materials | | | | N | Through-ho SK 7.2×7 Ature (7.2×7.2 mm) rotary DIP Tu Gold | A6 .2 mm .2 mm switch with through-hole termini- be plated | |
| Model Size Appear Feature Packag Contac Ratings | ance es ling t materials s (resistive | load) | | | N | Through-ho SK 7.2×7 ature (7.2×7.2 mm) rotary DIP Tu Gold 25 mA at 24 VDC / 10 μA (n | A6 2 mm 3 switch with through-hole terminibe 9 plated 1 inimum current) at 3.5 VDC | |
| Model Size Appear Feature Packag Contac Ratings Contac | ance es ing t materials s (resistive t resistance | load) | | | •Minia | Through-ho SK 7.2×7 Ature (7.2×7.2 mm) rotary DIP Tu Gold 25 mA at 24 VDC / 10 μA (n 200 m | le mounting A6 .2 mm switch with through-hole termin be plated ninimum current) at 3.5 VDC Ω max. | nals. |
| Model Size Appear Feature Packag Contac Ratings Contac | ance es ing t materials s (resistive t resistance | load) | | 4x1 Terminals | ·Minia 10 | Through-ho SK 7.2×7 ature (7.2×7.2 mm) rotary DIP Tu Gold 25 mA at 24 VDC / 10 μA (n 200 m 16 | Ide mounting A6 .2 mm .2 mm switch with through-hole terminible .2 mm plated .2 mm ninimum current) at 3.5 VDC .2 max. 10 .2 max | hals. |
| Model Size Appear Feature Packag Contac Ratings Contac | ance es ing t materials s (resistive t resistance | load) | values) | 4×1 Terminals 3×3 Terminals | •Minia •Minia | Through-ho SK 7.2×7 ature (7.2×7.2 mm) rotary DIP ature (7.2×7.2 mm) rotary DIP Tu Gold 25 mA at 24 VDC / 10 μA (n 200 m 16 | le mounting A6 2 mm Switch with through-hole termir be plated ninimum current) at 3.5 VDC Ω max. 10 | 16 |
| Model Size Appear Feature Packag Contac Ratings Contac | ance es ing t materials s (resistive t resistance | load) | values) | 3×3 Terminals | •Minia •Minia •Minia | Through-ho 6K 7.2×7 ature (7.2×7.2 mm) rotary DIP Tu Gold 25 mA at 24 VDC / 10 μA (n 200 m 16 A6K-162RF | le mounting A6 .2 mm Switch with through-hole terminibe plated ninimum current) at 3.5 VDC Ω max. 10 | 16 |
| Model Size Appear Feature Packag Contac Ratings Contac | ance es ing t materials s (resistive t resistance | load) | values) | 3×3 Terminals 5×2 Terminals | •Minia •Minia 10 A6K-102RF A6K-104RF | Through-ho SK 7.2×7 ature (7.2×7.2 mm) rotary DIP Tu Gold 25 mA at 24 VDC / 10 μA (n 200 m 16 A6K-162RF A6K-164RF | le mounting A6 .2 mm Switch with through-hole terminibe plated ninimum current) at 3.5 VDC Ω max. 10 | 16 |
| Model Size Appear Feature Packag Contac Ratings Contac | ance as ing t materials s (resistive t resistance | load) | values) | 3×3 Terminals 5×2 Terminals 4×1 Terminals | •Minia •Minia 10 A6K-102RF A6K-104RF | Through-ho SK 7.2×7 ature (7.2×7.2 mm) rotary DIP Tu Gold 25 mA at 24 VDC / 10 μA (n 200 m 16 A6K-162RF A6K-164RF | le mounting A6 .2 mm Switch with through-hole terminibe plated ninimum current) at 3.5 VDC Ω max. 10 | 16 |
| Model Size Appear Feature Packag Contac Ratings Contac | ance as ing t materials s (resistive t resistance | load) | values) | 3×3 Terminals5×2 Terminals4×1 Terminals3×3 Terminals | •Minia •Minia 10 A6K-102RF A6K-104RF | Through-ho δK 7.2×7 ature (7.2×7.2 mm) rotary DIP Tu Gold 25 mA at 24 VDC / 10 μA (n 200 m 16 A6K-162RF A6K-164RF | Ite mounting A6 .2 mm switch with through-hole terminible plated ninimum current) at 3.5 VDC Ω max. 10 A6KV-102RF | 16 A6KV-162RF |
| Model Size Appear Feature Packag Contac Ratings Contac | ance as ing t materials s (resistive t resistance | load) | values) | 3×3 Terminals5×2 Terminals4×1 Terminals3×3 Terminals5×2 Terminals | •Minia •Minia 10 A6K-102RF A6K-104RF | Through-ho δK 7.2×7 Tr ature (7.2×7.2 mm) rotary DIP Tu Gold 25 mA at 24 VDC / 10 μA (n 200 m 16 A6K-162RF A6K-162RF A6K-164RF | Ite mounting A6 .2 mm switch with through-hole terminible plated ninimum current) at 3.5 VDC Ω max. 10 A6KV-102RF A6KV-104RF | 16 A6KV-162RF A6KV-164RF |
| Model Size Appear Feature Packag Contac Ratings Contac Position | ance as ing t materials s (resistive t resistance | load) e (initial | values) Top actuated Side actuated | 3×3 Terminals5×2 Terminals4×1 Terminals3×3 Terminals5×2 Terminals4×1 Terminals | •Minia •Minia 10 A6K-102RF A6K-104RF | Through-ho SK 7.2×7 ature (7.2×7.2 mm) rotary DIP Tu Gold 25 mA at 24 VDC / 10 μA (n 200 m 16 A6K-162RF A6K-164RF | Ide mounting A6 .2 mm switch with through-hole terminible plated ninimum current) at 3.5 VDC Ω max. 10 A6KV-102RF A6KV-104RF | 16 A6KV-162RF A6KV-164RF |
| Model Size Appear Feature Packag Contac Ratings Contac Position | ance ss ing t materials s (resistive t resistance n Flat | load) e (initial | values) | 3×3 Terminals5×2 Terminals4×1 Terminals3×3 Terminals5×2 Terminals4×1 Terminals3×3 Terminals | | Through-ho SK 7.2×7 with a stars of the st | Ide mounting A6 .2 mm switch with through-hole terministic switch with through-hole terministic plated ninimum current) at 3.5 VDC Ω max. 10 A6KV-102RF A6KV-104RF | 16 A6KV-162RF A6KV-164RF |
| Model Size Appear Feature Packag Contac Ratings Contac Position | ance ance as ing t materials (resistive t resistance f Flat Extended | load) e (initial | values) Top actuated Side actuated | 3×3 Terminals5×2 Terminals4×1 Terminals3×3 Terminals5×2 Terminals4×1 Terminals3×3 Terminals5×2 Terminals5×2 Terminals | 10 A6K-102RF A6K-104RF A6K-102RS A6K-102RS A6K-104RS | Through-ho SK 7.2×7 View ature (7.2×7.2 mm) rotary DIP ature (7.2×7.2 mm) rotary DIP Tu Gold 25 mA at 24 VDC / 10 µA (n 200 m 16 A6K-162RF A6K-164RF A6K-164RF A6K-164RS | Ide mounting A6 .2 mm switch with through-hole terministic switch with through-hole terministic | 16 A6KV-162RF A6KV-164RF |
| Model Size Appear Feature Packag Contac Ratings Contac Position | ance ss ing t materials s (resistive t resistance n Flat | load) e (initial | values) Top actuated Side actuated | 3×3 Terminals5×2 Terminals4×1 Terminals3×3 Terminals5×2 Terminals4×1 Terminals3×3 Terminals5×2 Terminals4×1 Terminals | 10 A6K-102RF A6K-104RF A6K-104RS A6K-104RS | Through-ho K 7.2×7 View ature (7.2×7.2 mm) rotary DIP ature (7.2×7.2 mm) rotary DIP Tu Gold 25 mA at 24 VDC / 10 µA (n 200 m 16 A6K-162RF A6K-164RF A6K-162RS A6K-164RS | Ide mounting A6 .2 mm switch with through-hole terministic switch with through-hole terministic switch with through-hole terministic max. 10 max. 10 A6KV-102RF A6KV-104RF < | 16 A6KV-162RF A6KV-164RF |
| Model Size Appear Feature Packag Contac Ratings Contac Position | ance ance as ing t materials (resistive t resistance f Flat Extended | load) e (initial | values) Top actuated Side actuated | 3×3 Terminals5×2 Terminals4×1 Terminals3×3 Terminals5×2 Terminals4×1 Terminals3×3 Terminals5×2 Terminals3×3 Terminals3×3 Terminals | IO 10 A6K-102RF A6K-104RF A6K-102RS A6K-104RS | Through-ho K 7.2×7 View ature (7.2×7.2 mm) rotary DIP ature (7.2×7.2 mm) rotary DIP Tu Gold 25 mA at 24 VDC / 10 µA (n 200 m 16 A6K-162RF A6K-164RF A6K-162RS A6K-164RS | Ide mounting A6 .2 mm .2 mm switch with through-hole terminible plated ninimum current) at 3.5 VDC Ω max. 10 < | 16 A6KV-162RF A6KV-164RF A6KV-162RF A6KV-162RF |
| Model Size Appear Packag Contac Ratings Contac Position | ance ance ing t materials (resistive t resistance Flat Extended actuator | load) e (initial | values) Top actuated Side actuated | 3×3 Terminals5×2 Terminals4×1 Terminals3×3 Terminals5×2 Terminals4×1 Terminals3×3 Terminals5×2 Terminals4×1 Terminals | 10 A6K-102RF A6K-104RF A6K-104RS A6K-104RS | Through-ho SK 7.2×7 Image: Constraint of the second | Ide mounting A6 .2 mm .2 mm switch with through-hole terminible .2 mm switch with through-hole terminible .2 mm glated .3.5 VDC 0 max. 10 0 max. .10 | ABKV-162RF A6KV-162RF A6KV-164RF - |
| Model Size Appear Packag Contac Ratings Contac Position | ance ance as ing t materials (resistive t resistance) Flat Extended actuator ity | load) e (initial | values) Top actuated Side actuated | 3×3 Terminals5×2 Terminals4×1 Terminals3×3 Terminals5×2 Terminals4×1 Terminals3×3 Terminals5×2 Terminals3×3 Terminals3×3 Terminals | IO 10 A6K-102RF A6K-104RF A6K-102RS A6K-104RS | Through-ho K 7.2×7 View ature (7.2×7.2 mm) rotary DIP ature (7.2×7.2 mm) rotary DIP Tu Gold 25 mA at 24 VDC / 10 µA (n 200 m 16 A6K-162RF A6K-164RF A6K-162RS A6K-164RS 20,000 s | Ide mounting A6 .2 mm switch with through-hole terminible plated ninimum current) at 3.5 VDC Ω max. 10 | 16 A6KV-162RF A6KV-164RF A6KV-162RF A6KV-162RF |
| Model Size Appear Packag Contac Ratings Contac Position Types | ance ance as ing t materials c resistive t resistance f Flat Extended actuator ity g | load) e (initial code | values) Top actuated Side actuated | 3×3 Terminals5×2 Terminals4×1 Terminals3×3 Terminals5×2 Terminals4×1 Terminals3×3 Terminals5×2 Terminals3×3 Terminals3×3 Terminals | IO 10 A6K-102RF A6K-104RF A6K-102RS A6K-104RS | Through-ho K 7.2×7 View ature (7.2×7.2 mm) rotary DIP ature (7.2×7.2 mm) rotary DIP Tu Gold 25 mA at 24 VDC / 10 µA (n 200 m 16 A6K-162RF A6K-164RF A6K-162RS A6K-164RS 20,000 s Not per | Ide mounting A6 .2 mm | 16 A6KV-162RF A6KV-164RF A6KV-162RF A6KV-162RF |
| Model Size Appear Packag Contac Ratings Contac Position Types | ance ance as ing t materials (resistive t resistance) Flat Extended actuator ity | Ioad) e (initial code | Values) Top actuated Side actuated Side actuated | 3×3 Terminals5×2 Terminals4×1 Terminals3×3 Terminals5×2 Terminals4×1 Terminals3×3 Terminals5×2 Terminals3×3 Terminals3×3 Terminals | IO 10 A6K-102RF A6K-104RF A6K-102RS A6K-104RS | Through-ho SK 7.2×7 Image: Sk ature (7.2×7.2 mm) rotary DIP Tu Gold 25 mA at 24 VDC / 10 µA (n 200 m; 16 A6K-162RF A6K-164RF A6K-162RS A6K-164RS 20,000 s Not pc IEC | Ide mounting A6 .2 mm switch with through-hole terminible plated ninimum current) at 3.5 VDC Ω max. 10 | 16 A6KV-162RF A6KV-164RF A6KV-162RF A6KV-162RF |

Be sure to read the Safety precautions common to all DIP Switches for correct use.

29

Rotary DIP Switches

| Mountir | g | | | | | Through-ho | le mounting | | | |
|--------------------------|---------------|----------|---------------|---------------|--------------|--|-----------------------------|------------|--|--|
| Model | | | | | A | 6R | A6 | RV | | |
| Size | | | | | | 9.8×9 | 9 mm | | | |
| Appear | ance | | | | | | | | | |
| Feature | s | | | | | Through-hole mount | ing rotary DIP switch. | | | |
| Packag | ng | | | | | Tu | be | | | |
| Contact materials | | | | | | Gold | plated | | | |
| Ratings (resistive load) | | | | | | 25 mA at 24 VDC / 10 µA (n | ninimum current) at 3.5 VDC | | | |
| Contact | resistance | (initial | values) | | 200 mΩ max. | | | | | |
| Position | 1 | | | | 10 | 16 | 10 | 16 | | |
| | | | | 4×1 Terminals | A6R-101RF | A6R-161RF | | | | |
| | | | Top actuated | 3×3 Terminals | A6R-102RF | A6R-162RF | | | | |
| | Flat | | | 5×2 Terminals | | | | | | |
| | 1 Idt | | | 4×1 Terminals | | | A6RV-101RF | A6RV-161RF | | |
| | | | Side actuated | 3×3 Terminals | | | A6RV-102RF | A6RV-162RF | | |
| Types | | Real | | 5×2 Terminals | | | | | | |
| Types | | code | | 4×1 Terminals | A6R-101RS | A6R-161RS | | | | |
| | | | Top actuated | 3×3 Terminals | A6R-102RS | A6R-162RS | | | | |
| | Extended | | | 5×2 Terminals | | | | | | |
| | actuator | | | 4×1 Terminals | | | A6RV-101RS | A6RV-161RS | | |
| | | | Side actuated | 3×3 Terminals | | | A6RV-102RS | A6RV-162RS | | |
| | | | | 5×2 Terminals | | | | | | |
| Durabili | ty | | | | | 5,000 st | eps min. | | | |
| Washin | g | | | | | Not po | ossible | | | |
| Degree | of protection | ı | | | | IEC | IP60 | | | |
| Ambien | t operating | tempe | rature | | -25 to +80°C | | | | | |
| Ambien | t operating | humid | ity | | | 35 to 95%RH (f | or +5 to +35°C) | | | |

| Mounting | | | Through-hole mounting | | | | | | |
|-------------------------------------|----------------------|--------------------------|---|----------|--|--|--|--|--|
| Model | | | A6A | | | | | | |
| Size | | | 10×10 mm | | | | | | |
| Appearance | | | | | | | | | |
| Features | | | *Sealed rotary DIP switch with various selections for code setting. | | | | | | |
| Packagin | g | | Вох | | | | | | |
| Contact materials | | | Gold plated | | | | | | |
| Ratings (resistive load) | | | 0.1 A at 28 VDC / 1 mA (minimum current) at 5 VDC | | | | | | |
| Contact resistance (initial values) | | | 200 mΩ max. | | | | | | |
| Position | Position | | 10 | 16 | | | | | |
| | Cone | Real code | A6A-10R | A6A-16R | | | | | |
| | Cone | Complementary code | A6A-10C | A6A-16C | | | | | |
| | Flat | Real code | A6A-10RF | A6A-16RF | | | | | |
| Tunos | Fiat | Complementary code | A6A-10CF | A6A-16CF | | | | | |
| Types | Extended actuator | Real code | A6A-10RS | A6A-16RS | | | | | |
| | | Complementary code | A6A-10CS | A6A-16CS | | | | | |
| | Wheel | Real code | A6A-10RW | A6A-16RW | | | | | |
| | vvneei | Complementary code | A6A-10CW | A6A-16CW | | | | | |
| Durability | 1 | | 2,000 steps min. | | | | | | |
| Washing | | | Possible | | | | | | |
| Degree of protection | | | Internally sealed (IEC IP64 equivalency) | | | | | | |
| Ambient operating temperature | | | -10 to +70°C | | | | | | |
| Ambient | operating hur | nidity | 45 to 85%RH (for +5 to +35°C) | | | | | | |
| Note: Defaul | t rotor setting is 0 | for Rotary DIP Switches. | | | | | | | |

Be sure to read the Safety precautions common to all DIP Switches for correct use.

| Mounting | Through-hole mounting | | | | | | | |
|-------------------------------------|------------------------------|-----------------------------|---|----------|--|--|--|--|
| Model | A | 6C | A6CV | | | | | |
| Size | 9×6. | 6 mm | 9×7.1 mm | | | | | |
| Appearance | N | | | | | | | |
| Features | ·Internally sealed DIL-IC to | p actuated type DIP switch. | ·Internally sealed DIL-IC side actuated type rotary DIP switch. | | | | | |
| Packaging | Tu | ibe | Box | | | | | |
| Contact materials | Gold | plated | Gold plated | | | | | |
| Ratings (resistive load) | 0.1 A at 30 VDC / 10 µA (m | inimum current) at 3.5 VDC | 0.1 A at 30 VDC / 10 μA (minimum current) at 3.5 VDC | | | | | |
| Contact resistance (initial values) | 200 m | Ω max. | 200 mΩ max. | | | | | |
| Position | 10 | 16 | 10 | 16 | | | | |
| Types Flat Real code Top actuated | A6C-10R(N) | A6C-16R(N) | | | | | | |
| Types Flat Real code Side actuated | | | A6CV-10R | A6CV-16R | | | | |
| Durability | 2,000 st | teps min. | 2,000 steps min. | | | | | |
| Washing | Pos | sible | Possible | | | | | |
| Degree of protection | Internally sealed (IE | C IP64 equivalency) | Internally sealed (IEC IP64 equivalency) | | | | | |
| Ambient operating temperature | -20 to | +70°C | -20 to +70°C | | | | | |
| Ambient operating humidity | 35 to 95%RH (| for +5 to +35°C) | 35 to 95%RH (for +5 to +35°C) | | | | | |

Thumbwheel Switches Line up

| Operation Method | | Push Operation | | | | | | | | | | | |
|--|--|---|------------|---------------|--|---------------------------|-----------|---|-------------|---------------------------|------------|------------|--|
| Model | | A7DP-2 A7D-2 | | | | A7 | A7D-1 | | A7CN-L2 | | CN-2 | A7CN-1 | |
| Shape (mm) | | Push-opera Switches | | (Character he | 16 16 5.08 sight: 3.2 mm) | (Character height: 3.2 mm | | Locking Switches | | (Character height 3.4 mm) | | | |
| Features | | •3.3 to 30 VDC •Saves space •Misoperation prevention function enabled •Can be manufactured with stoppers | | | | | | •3.3 to 28V DC •Saves space •Misoperation prevention function enabled | | | | | |
| Installation method | | One-step mounting (Front mounting) | | | Screw mounting (Back mounting | | | Cne-step mounting (Front mounting) | | | mounting | | |
| Terminals | | PCB Terminals | | | | | | PCB Terminals | | | | | |
| Dust resista | ince | Yes (IP50) | | | | | | Yes (IP50) | | | | | |
| Case color | | Light gray | Black | Light gray | Black | Light gray | Black | Light gray | Black | Light gray | Black | Black | |
| | 03 (decimal code) | | | | | | | | | | | | |
| | 06 (binary code ecimal) | A7DP-206 | A7DP-206-1 | A7D-206 | A7D-206-1 | A7D-106 | A7D-106-1 | A7CN-L206 | A7CN-L206-1 | A7CN-206 | A7CN-206-1 | A7CN-106-1 | |
| Switch | 07 (binary coded decimal, with component-adding provision | | | | | | | | | | | | |
| units according to output codes | 19 (decimal code, with component- adding provision) | | | | | | | | | | | | |
| | 54 (binary coded hexadecimal | | | | | | | | | | | | |
| | 55 binary coded decimal, with component-adding provision | | | | | | | | | | | | |
| End caps | | A7D-2M | A7D-2M-1 | A7D-2M | A7D-2M-1 | A7D-1M | A7D-1M-1 | A7CN-2M | A7CN-2M-1 | A7CN-2M | A7CN-2M-1 | A7CN-1M-1 | |
| Spare unit | | A7D-2PA | A7D-2PA-1 | A7D-2PA | A7D-2PA A7D-2PA-1 | | A7D-1PA-1 | A7CN-2PA | A7CN-2PA-1 | A7CN-2PA | A7CN-2PA-1 | A7CN-1PA-1 | |
| Connector - | Solder terminals | | | - | | | | | | | | | |
| | PCB terminals | | | | | | | | | | | | |

| Operation | Method | Push Operation | | | | | | | | | Rotary Operation | |
|--|---|---|-------------------------|-------------------|--|------------|---|--|------------|-------------------------------------|------------------------------------|---------------------------|
| Model | | A7BL A7BS | | | A7BS-20□-S | | A7PS | | A7PH | | A7MD | |
| Shape (mm) | | Locking Sw | vitches | A Chevron beinter | | | ith External | | | Long-life Switches | | (Character height: 2.8 mm |
| Features | | With misop prevention | function anufactured | •Can be ma | •50 VAC or 3.3 to 28 VDC •Can be manufactured with stoppers •Stopper can changed as | | | *50 VAC or 3.3 to 28 VDC *Easier to see and operate *Can be manufactured with stoppers *Can be manufactured with stoppers | | •3.3 to 28 VDC •Rotary Operation | | |
| Installation method | | One-step mounting (Front mounting) | | | | | One-step mounting (Front mounting) | | | Secured to panel with PCB. | | |
| Terminals | | Solder Terminals | | | | | | Solder Terminals | | | PCB Terminals | |
| Dust resistance | | Yes (IP50) | | | | | | Yes (IP50) | | | Yes (simple dust resistance) | |
| Case colo | r | Light gray | Black | Light gray | Black | Light gray | Black | Light gray | Black | Light gray | Black | Black |
| | 03 (decimal code) | | | | | - | | A7PS-203 | A7PS-203-1 | A7PH-203 | A7PH-203-1 | |
| | 06 (binary code decimal) | A7BL-206 | A7BL-206-1 | A7BS-206 | A7BS-206-1 | A7BS-206-S | A7BS- 206-S-1 | A7PS-206 | A7PS-206-1 | A7PH-206 | A7PH-206-1 | A7MD-106-P-09 |
| Switch | 07 (binary coded decimal, with component- adding provision | A7BL-207 | A7BL-207-1 | A7BS-207 | A7BS-207-1 | A7BS-207-S | A7BS- 207-S-1 | A7PS-207 | A7PS-207-1 | A7PH-207 | A7PH-207-1 | |
| units according to output codes | 19 (decimal code, with component- adding provision | | | | | | | A7PS-219 | A7PS-219-1 | | | |
| | 54 (binary coded hexadecimal | | | A7BS-254 | A7BS-254-1 | | | A7PS-254 | A7PS-254-1 | A7PH-254 | A7PH-254-1 | |
| | 55 (binary coded decimal, with component- adding provision | | | A7BS-255 | A7BS-255-1 | | | A7PS-255 | A7PS-255-1 | | | |
| End caps | | A7B-M | A7B-M-1 | A7B-M | A7B-M-1 | A7B-M | A7B-M-1 | A7P -M | A7P-M-1 | A7P-M | A7P-M-1 | A7MD-1M |
| Spare unit | | A7B-PA | A7B-PA-1 | A7B-PA | A7B-PA-1 | A7B-PA | A7B-PA-1 | A7P-PA | A7P-PA-1 | A7P-PA | A7P-PA-1 | A7MD-PA |
| Connector – | Solder terminals | A7B-C | | | | | | NRT-C/NRT-CN | | | | |
| | PCB terminals | A7B-CP | | | | | | NRT-CP | | | | |

Application Example

OMRON Switches Do you know about them?

OMRON switches have a proven track record in many of our familiar applications. Our customers appreciate their "click feeling," "durability," and "ease of design."



Three reasons why customers choose OMRON switches

Good Feeling

A Satisfying Click

OMRON has established a technology to create an **"exquisite operational feeling"** by adding several parameters in addition to load and stroke. The wide variation of the feeling **improves the operability of the customer's equipment**.

Long Life

Strong durability and long life switching

OMRON has achieved **"strong durability"** through its proprietary switch production technologies accumulated over more than 80 years, as well as through its technologies for properly adjusting and managing these technologies. Please consider OMRON products for **applications that require long-life** switching.



B Easy Design Less vari

Less variation, easy equipment design

Over the years, OMRON has refined its technology for adjusting changes in characteristics of each process from raw materials to finished products by feeding back to the previous process, thereby making switches with "negligible variation between individuals or lots." We help our customers

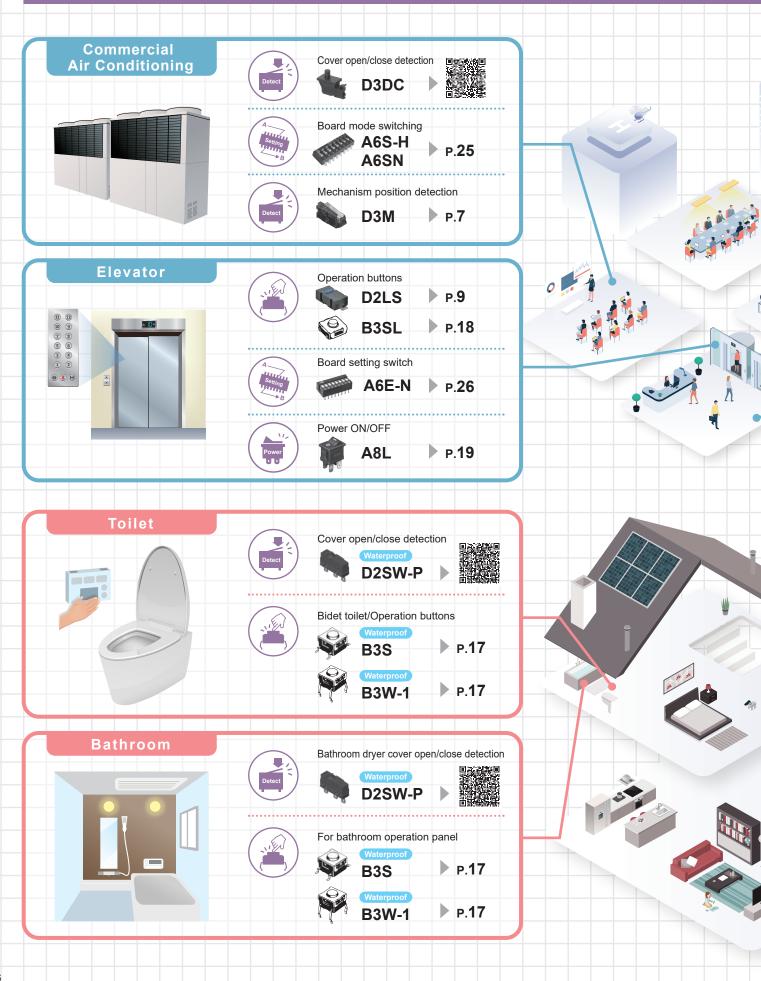


"negligible variation between individuals or lots." We help our customers to design their devices more easily.

Switch Selection Guide



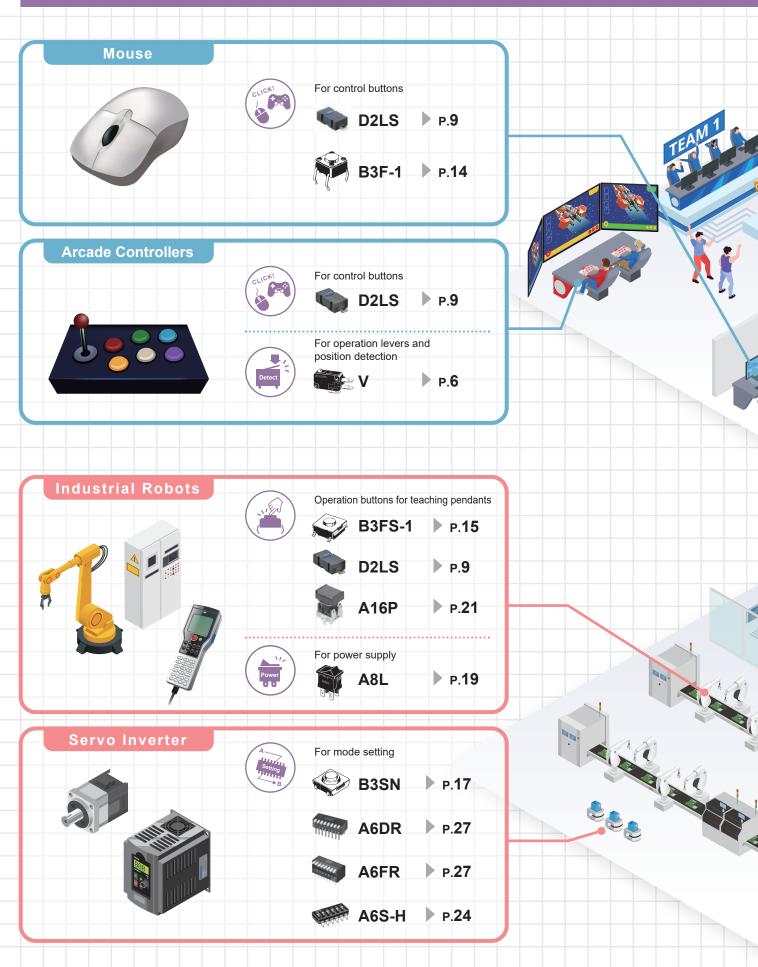
Application Example

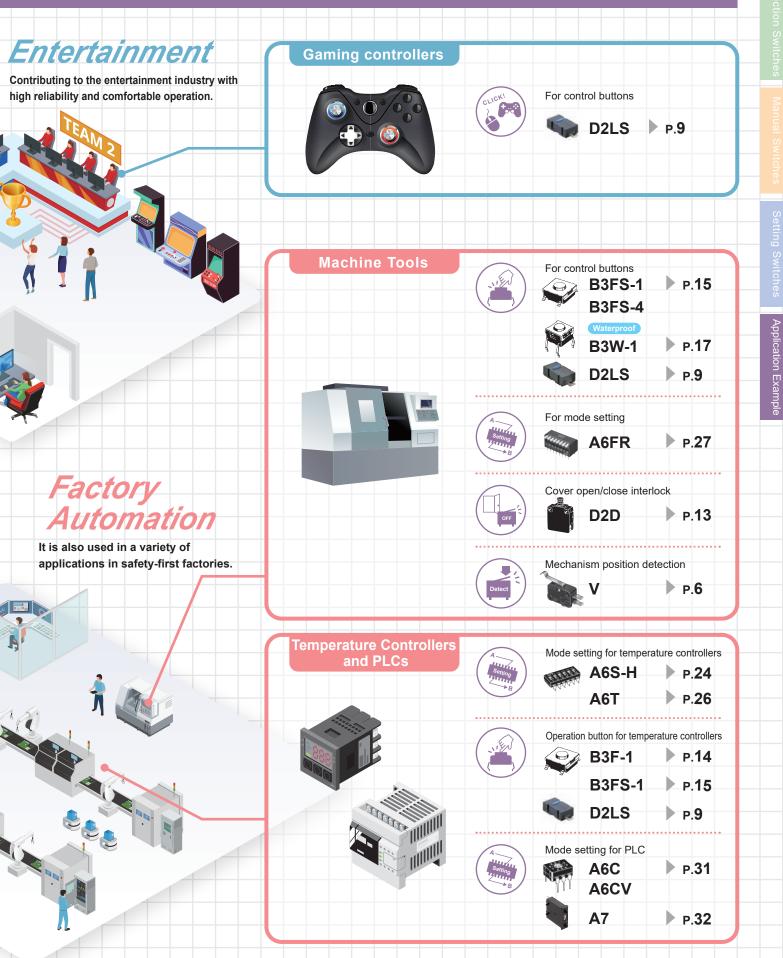


Smart Building **Electric Locks** Supports comfortable operation of smart Door open/close detection buildings and safety of equipment. P.8 D2F D3C Р.13 **Automatic Doors** and Gates Door position detection P.6 V 00 D3V SS Р.7 Smart Home **Security Devices** Cover open/close detection D2F P.8 We continue to support daily life invisibly. For setting A6S-H P.24 A6SN Operation button for reset (gold-plated) **B3SN** Р.17 Air purifiers Cartridge tank open/close detection J Waterproof D2SW-P Mode setting operation button Waterproof B3W-1 Р.17

37

Application Example







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