

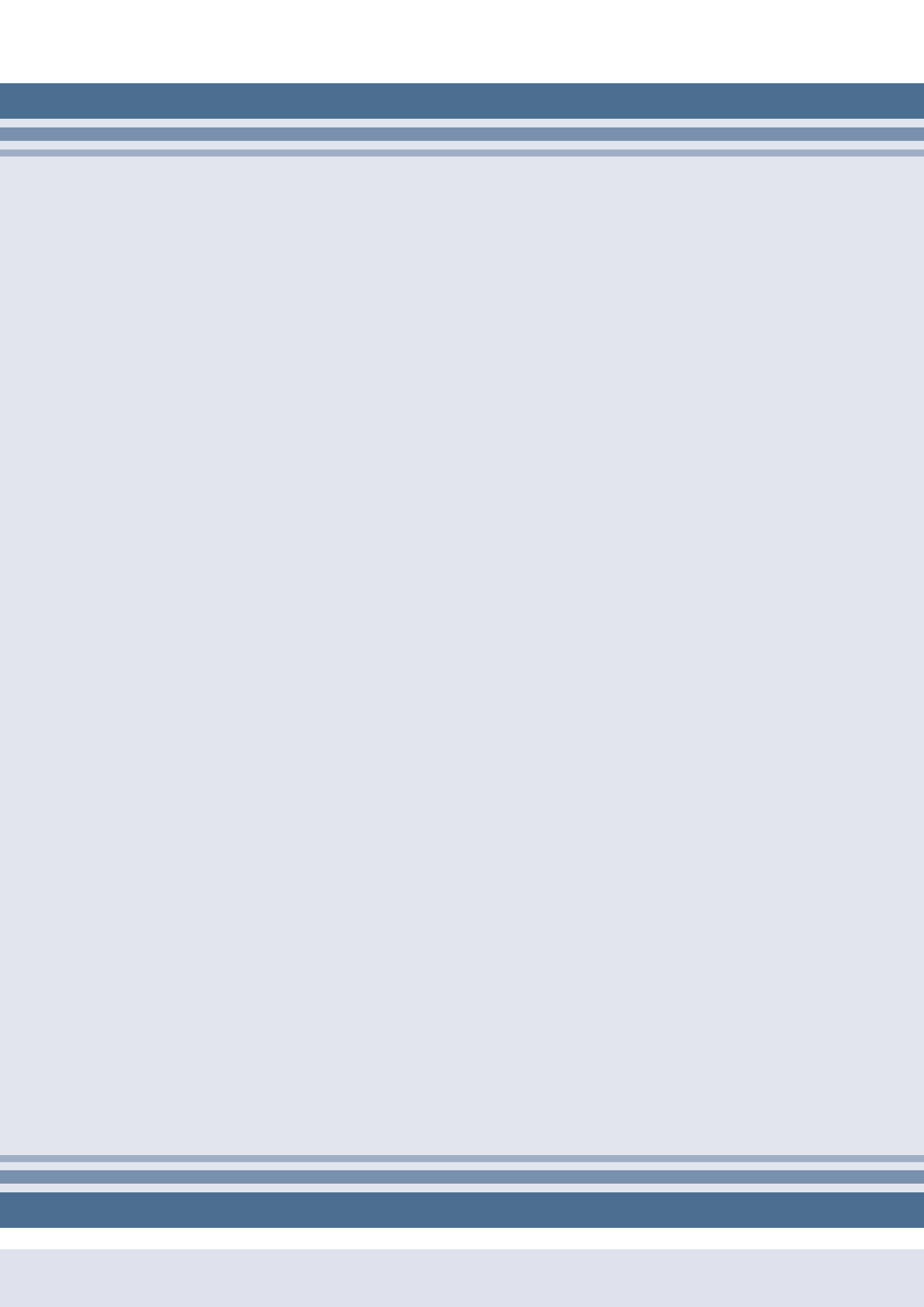
Sensing Switches

Seal type Switches / Non Seal type Switches /
Fall Detection Switches / Snap Switches /
Power Rocker Switches

SELECTION GUIDE

IN Better Solution





INDEX

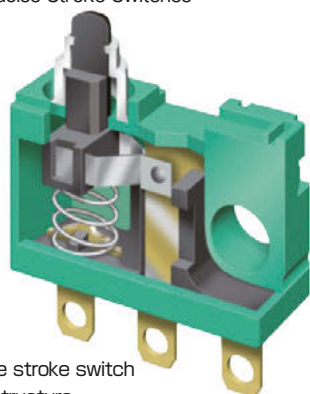
◆ Product Lineup	2
◆ Detection Switches Selector Chart	4
◆ Operation Switches Selector Chart	8
◆ Application	11

Switch Series Which Covers All Markets

High Environmental Resistance Seal Switches

- High environmental resistance seal switches
- IP67 type (Immersion protected)
- Silent switch with both-sided sliding contact available*
- Long stroke for move assembling position allowance*

* Turquoise Stroke Mini Switches, Turquoise Stroke Switches



Turquoise stroke switch
Internal structure



Automotive



Cultivators



Multistory car parks



Electric carts



Refrigerators

Turquoise Stroke Mini Switches

Resistor installed type Terminal type Wire lead type



Turquoise Switches

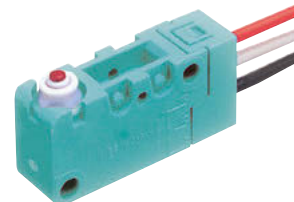
ABJ (BJ)



ABS (BS)



ABV (BV)



Detection Switch Series with Plenty of Variation

- A broad product line



Air conditioners



Microwave ovens



Vending machines



Vacuum cleaners



Heaters

AV4 (FU) Switches



AEQ (EQ) Switches



AH1 (FJ) Switches



AV3/AVM3/AVT3/AVL3 (FS/FS-T) Switches



AV6 (CS) Switches

Pin plunger





Snap Switches

- Series includes rocker and push-button switches
- Sealed type added for use in severe environments

T-15 Series 15 A High Snap Switches



Toggle type

Rocker type

Push-button type

T-10 Series 10 A Snap Switches



T-06/T-03 Series 6 A/3 A Snap Switches



Power Rocker Switches

- High inrush current resistance is ideal for power switch of office automation equipment
- A broad product line
- Contact gap: 3mm Min.



PPC

AJ7 (J7) Switches



AJ8 (J8) Switches



Falling Detection Switches

- Contributes to safety countermeasures by detecting machine tilt

AHF2 (TiP) Switches

Containing a photo sensor



Dehumidifiers

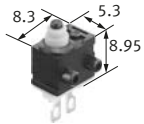
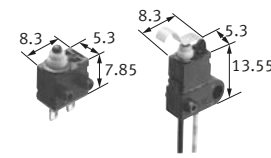
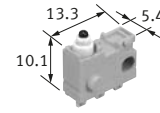









Humidifiers



Heaters

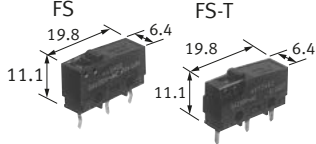
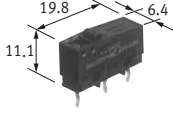
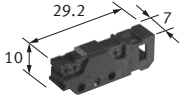







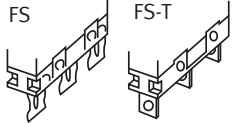
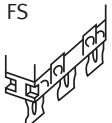
Detection Switches Selector Chart

Category		Seal Type Switches		
Size	-			
Product name	Turquoise Stroke Mini Switch Resistor Installed Type	Turquoise Stroke Mini Switches		Turquoise Stroke Switches
Initial of part number	ASQMR	ASQM		ASQ
Configuration (Unit: mm)	 * Sliding contact	 * Sliding contact		 * Sliding contact
Features	<ul style="list-style-type: none"> A built-in resistor has enabled detection of disconnection and short circuit of wiring. Miniaturization achieved with changing from 1 Form C to 1 Form A or 1 Form B contacts. Support low level switching loads Silent operation with sliding contacts 	<ul style="list-style-type: none"> Miniaturization achieved with changing from 1 Form C to 1 Form A or 1 Form B contacts. Handles low-level switching loads Silent operation construction with sliding contact 		<ul style="list-style-type: none"> Compact size and long stroke Silent operation construction with sliding contact
Rating (Resistive load)	<p><Ag plating on both sides of sliding contact></p> <ul style="list-style-type: none"> Rated power -40°C ≤ T ≤ 70°C 0.50 W 70°C < T ≤ 75°C 0.45 W 75°C < T ≤ 85°C 0.40 W (T:Environment temperature) Voltage: 4.5 to 16 V DC Minimum current: 1 mA 	<p><Ag plating on both sides of sliding contact></p> <ul style="list-style-type: none"> 1 mA 5 V DC to 50 mA 16 V DC 		<p><Au plating on both sides of sliding contact></p> <ul style="list-style-type: none"> 1 mA 5 V DC to 100 mA 30 V DC
Operating Force (OF) Max (Pin plunger type)	1.2 N	1.2 N		1.5 N
Expected life	Mechanical (Pin plunger type)	-		
	Electrical	Nominal rating load: Min. 2.0×10 ⁵ Low-level rating load: Min. 3×10 ⁵	Nominal rating load: Min. 1.5×10 ⁵ Low-level rating load: Min. 3×10 ⁵	
Mounting pitch	5.0 mm (Terminal type) 8.3 mm (Wire leads type)	5.0 mm (Terminal type) 8.3 mm (Wire leads type)		8.3 mm (M3)
Actuator style	 Pin plunger	●		
	 Hinge lever	-		
	 Hinge lever	-		
	 Hinge lever	-		
	 Simulated roller lever	-		
	 Hinge roller lever	-		
	 leaf lever	● (leaf lever, Simulated roller lever)		
Terminal style	<ul style="list-style-type: none"> Solder terminal Fork terminal Wire leads (bottom) 	<ul style="list-style-type: none"> Slim terminal Solder terminal Fork terminal Wire leads (bottom, right-side and left side type) 		<ul style="list-style-type: none"> Solder terminal P/C board terminal or P/C angle terminal Wire leads (bottom, right side and left side types)
Safety standard	-			
Protection grade	IP67 *With Wire leads	IP67 *With Wire leads		IP67 *With Wire leads
Unit weight (Approx.)	0.5 g (Terminal type)	0.5 g (Terminal type)		0.8 g (Terminal type)

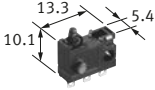

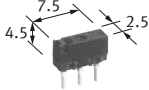
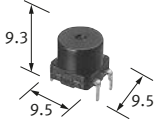







Detection Switches Selector Chart

Category		Seal Type Switches		
Size		J	S	V
Product name		ABJ (BJ) Turquoise Switches	ABS (BS) Turquoise Switches	ABV (BV) Turquoise Switches
Initial of part number		ABJ	ABS	ABV
Configuration (Unit: mm)				
Features		<ul style="list-style-type: none"> J type, High sealing performance sealed switches Elastomer double molding technology contribute to steady sealing quality 	<ul style="list-style-type: none"> S type, High sealing performance sealed switches Elastomer double molding technology contribute to steady sealing quality Expansion of low-level circuit type 	<ul style="list-style-type: none"> Integral construction of body and cover, sealed switches Plunger section adopts ultrasonic swaging process
Rating (Resistive load)		<p><AgNi alloy contact></p> <ul style="list-style-type: none"> 1.23 N type 1 A 125 V AC 1 A 30 V DC 1.96 N type 2 A 125 V AC 2 A 30 V DC <p>• 2.45 N type (Long stroke type) 1 A 125 V AC 1 A 30 V DC</p> <p><AgNi alloy+Au-clad contact></p> <ul style="list-style-type: none"> 1.23 N type 1.96 N type <p>• 2.45 N type (Long stroke type) 0.1 A 125 V AC 0.1 A 30 V DC</p> <p>■ Low-level circuit type 5 mA 6 V DC 2 mA 12 V DC 1 mA 24 V DC</p>	<p><AgNi alloy contact></p> <ul style="list-style-type: none"> 2 A 125 V AC 2 A 250 V AC 2 A 30 V DC 0.4 A 125 V DC <p><Double layer contact: CuNi alloy+Au cladcontact> 0.1 A 30 V DC</p> <p><Triple layer contact: CuNi alloy+AgNi alloy + Au-clad contact> 0.1 A 125 V AC 0.1 A 250 V AC 0.1 A 30 V DC</p> <p>■ Low-level circuit type 5 mA 6 V DC 2 mA 12 V DC 1 mA 24 V DC</p>	<p><AgNi alloy contact></p> <ul style="list-style-type: none"> 0.98 N Type: 3 A 250 V AC 1.96 N Type: 5 A 250 V AC <p><AgNi alloy+Au-clad contact></p> <ul style="list-style-type: none"> 0.98 N Type: 1 A 250 V AC 1.96 N Type: 3 A 250 V AC <p>■ Low-level circuit type 5 mA 6 V DC 2 mA 12 V DC 1 mA 24 V DC</p>
Operating Force (OF) Max (Pin plunger type)		1.23 N 1.96 N 2.45 N (Long stroke type)	0.98 N 1.47 N	0.98 N 1.96 N
Expected life	Mechanical (Pin plunger type)	Min. 10 ⁵	Min. 5×10 ⁶	Min. 5×10 ⁶
	Electrical	AgNi alloy: Min. 3×10 ⁴ Au-clad: Min. 10 ⁵	AgNi alloy: Min. 5×10 ⁴ Au-clad: Min. 2×10 ⁵	Nominal rating load: Min. 10 ⁵ Low-level rating load: Min. 10 ⁶
Mounting pitch		6.5 mm (M1.2) 4.8 mm (M2.3) 13 mm (M3)	9.5 mm (M2.3)	10.3×22.2 mm (M3)
Actuator style	Pin plunger	•	•	•
	Hinge lever	-	•	-
	Hinge lever	•	•	•
	Hinge lever	-	•	-
	Simulated roller lever	•	•	•
	Hinge roller lever	•	•	• (Short roller lever, Roller lever)
	leaf lever	•	•	-
Terminal style		<ul style="list-style-type: none"> Solder terminal P/C board terminal Wire leads (bottom, right side and left side types) 	<ul style="list-style-type: none"> Solder terminal # 110 quick-connect terminal P/C board terminal or P/C angle terminal Wire leads (bottom, right side and left side types) 	<ul style="list-style-type: none"> # 187 quick-connect terminal Wire leads
Safety standard		-	UL/C-UL ENEC/VDE *Terminal type	UL/C-UL ENEC/VDE
Protection grade		IP67 *With Wire leads	IP67 *With Wire leads	IP67 *With Wire leads
Unit weight (Approx.)		0.5 g (Terminal type)	2 g (Terminal type)	7 g (Terminal type)


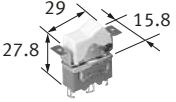
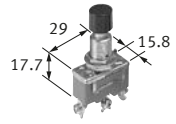




Detection Switches Selector Chart




Category		Non Seal Type Switches													
Size		S	S	S											
Product name		AV3/AVM3/AVT3/AVL3 (FS/FS-T) Switches	AV3 (FS) Switches Contact Gap 1 mm Type	AV6 (CS) Switches											
Initial of part number		AV3, AVM3, AVT3, AVL3	AV3	AV6											
Configuration (Unit: mm)															
Features		<ul style="list-style-type: none"> • Long life version available • Au-clad double layer contacts type for low-level circuit available • There is the direction of terminal of two types 	<ul style="list-style-type: none"> • S type and door inter-lock switches for secondary circuit of OA equipment • Contact gap of greater than 1mm PN : AV3***G* • Superior operating position precision 	<ul style="list-style-type: none"> • Using a connector for connections significantly improves operation and low profile effectiveness • High contact reliability is achieved by simple dust prevention guard • The contact form is available in two types, the SPST-NC and the SPST-NO. • Adoption of Au-clad double layer contacts of high reliability for low-level circuit type 											
Rating (Resistive load)		<p><AgNi alloy contact></p> <table border="0"> <tr> <td>Standard version</td> <td>Long life version</td> </tr> <tr> <td>3 A 250 V AC</td> <td>5 A 250 V AC</td> </tr> <tr> <td>3 A 30 V DC</td> <td>5 A 30 V DC</td> </tr> <tr> <td>0.4 A 125 V DC</td> <td>0.4 A 125 V DC</td> </tr> </table> <p><Double layer contact: CuNi alloy+Au-clad contact> <Triple layer contact: CuNi alloy+AgNi alloy+Au-clad contact> 0.1 A 250 V AC (Triple layer contact) 0.1 A 30 V DC (Low-level circuit type) 1 to 100 mA, 5 to 30 V DC (Double layer contact) 1 to 100 mA 5 to 250 V AC (Triple layer contact)</p> <p>■ Low-level circuit type</p> <table border="0"> <tr> <td>5 mA 6 V DC</td> </tr> <tr> <td>2 mA 12 V DC</td> </tr> <tr> <td>1 mA 24 V DC</td> </tr> </table>	Standard version	Long life version	3 A 250 V AC	5 A 250 V AC	3 A 30 V DC	5 A 30 V DC	0.4 A 125 V DC	0.4 A 125 V DC	5 mA 6 V DC	2 mA 12 V DC	1 mA 24 V DC	<p><AgNi alloy contact></p> <p>3 A 30 V DC</p>	<p><CuNi alloy+Au-clad contact></p> <p>0.1 A 30 V DC</p>
Standard version	Long life version														
3 A 250 V AC	5 A 250 V AC														
3 A 30 V DC	5 A 30 V DC														
0.4 A 125 V DC	0.4 A 125 V DC														
5 mA 6 V DC															
2 mA 12 V DC															
1 mA 24 V DC															
Operating Force (OF) Max (Pin plunger type)		<p><Standard version></p> <p>0.25 N (Au-clad contact only) 0.49 N 0.98 N</p> <p><Long life version></p> <p>1.47 N</p>	1.47 N	0.50 N 1.50 N											
Expected life	Mechanical (Pin plunger type)	Standard version: Min. 5×10^5 Long life version: Min. 3×10^7	Min. 5×10^5	Min. 5×10^5											
	Electrical	AgNi alloy contact: Min. 5×10^4 Au-clad contact: Min. 2×10^5	Min. 10^4	Min. 2×10^5											
Mounting pitch		9.5 mm (M2.3)	9.5 mm (M2.3)	-											
Actuator style	 Pin plunger	•	•	•											
	 Hinge lever	•	•	-											
	 Hinge lever	•	•	•											
	 Hinge lever	•	•	-											
	 Simulated roller lever	•	•	•											
	 Hinge roller lever	•	•	•											
	 leaf lever	-	-	-											
Terminal style		<ul style="list-style-type: none"> • Solder terminal • P/C board terminal • # 110 quick-connect terminal  <p>(AV3, AVM3) (AVT3, AVL3)</p>	<ul style="list-style-type: none"> • Solder terminal • P/C board terminal • # 110 quick-connect terminal 	<ul style="list-style-type: none"> • Connector connection (XA connector produced by JST Mfg. Co., Ltd.) 											
Safety standard		UL/C-UL ENEC/VDE	UL/C-UL ENEC/VDE TÜV	-											
Protection grade		IP40	IP40	IP40											
Unit weight (Approx.)		2 g	2 g	2.5 g (Plunger type)											

Detection Switches Selector Chart

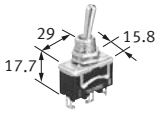
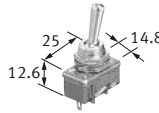


Category		Non Seal Type Switches			Fall Detection Switches
Size		J	J	U	-
Product name		AEQ (EQ) Switches	AH1 (FJ) Switches	AV4 (FU) Switches	AHF2 (TIP) Switches
Initial of part number		AEQ1	AH1	AV4	AHF2
Configuration (Unit: mm)		 * Sliding contact			
Features		<ul style="list-style-type: none"> Handles low level load 0.1mA at 3 V DC to 100 mA 30 V DC Same size as J type and long stroke. For pin plunger type, it maintains an O.T. (Over Travel) with over 2.2 mm on the NO side and over 2.5 mm on the NC side. Contact force does not depend on the operation stroke. Silent operation construction with sliding contact 	<ul style="list-style-type: none"> 2.0 mm mounting hole type (with stand off) available General-purpose small screws can be used. Soldering and flux-resistant construction Flat terminal shape Lineup includes 1 Form A and 1 Form B types 	<ul style="list-style-type: none"> Mechanical long life of 300,000 operations minimum Lineup includes a type with mounting holes 	<ul style="list-style-type: none"> Small, highly reliable TIP detection switches containing a photo sensor The contact form is equivalent normally closed contacts
Rating (Resistive load)		0.1 mA 3 V DC to 100 mA 30 V DC	<p><AgNi alloy contact></p> <ul style="list-style-type: none"> 0.74 N Type 1 A 125 V AC 1 A 30 V DC 1.47N Type 3 A 125 V AC 2 A 30 V DC <p><AgNi alloy+Au-clad contact></p> <ul style="list-style-type: none"> 0.1 A 125 V AC 0.1 A 30 V DC <p>■ Low-level circuit type</p> <ul style="list-style-type: none"> 5 mA 6 V DC 2 mA 12 V DC 1 mA 24 V DC 	<p><Ag plated contact></p> <ul style="list-style-type: none"> 0.5 A 30 V DC <p><Au plated contact></p> <ul style="list-style-type: none"> 0.1 A 30 V DC 	Photo transistor
Operating Force (OF) Max (Pin plunger type)		1.2 N	0.74 N 1.47 N	0.98 N	Operation angle: 25 to 60 degrees
Expected life	Mechanical (Pin plunger type)	-	0.74N: Min. 10 ⁶ 1.47N: Min. 5×10 ⁵	Min. 3×10 ⁵	Min. 10 ⁵
	Electrical	DC 3V 0.1 mA: Min. 2×10 ⁵ CD 30 V 100 mA: Min. 10 ⁵	AgNi alloy contact: Min. 3×10 ⁴ Au-clad contact: Min. 10 ⁵	Ag plated contact: Min. 2×10 ⁴ Au plated contact: Min. 2×10 ⁵	Min. 10 ⁵ (Adaptive circuit)
Mounting pitch		8.3 mm (M3)	9.5 mm (M2.3)	4 mm (M1.4)	-
Actuator style	 Pin plunger	•	•	•	-
	 Hinge lever	-	-	-	-
	 Hinge lever	-	•	•	-
	 Hinge lever	-	-	-	-
	 Simulated roller lever	-	•	•	-
	 Hinge roller lever	-	-	-	-
	 leaf lever	(Leaf lever, Simulated leaf lever)	•	-	-
Terminal style		<ul style="list-style-type: none"> Solder terminal P/C board terminal 	<ul style="list-style-type: none"> Self-standing P/C board terminal Straight P/C board terminal Solder terminal Right angle terminal Left angle terminal 	<ul style="list-style-type: none"> Solder terminal P/C board terminal(straight terminal) Right angle terminal Left angle terminal 	<ul style="list-style-type: none"> P/C board terminal
Safety standard		-	UL/C-UL	-	-
Protection grade		IP40	IP40	IP40	IP40
Unit weight (Approx.)		0.8 g	0.5 g	0.2 g (P/C board terminal)	1 g




Operation Switches Selector Chart

Category	Snap Switches																																														
Product name	T-15 Series Switches Toggle Type	T-15 Series Switches Rocker Type	T-15 Series Switches Pushbutton Type																																												
Initial of part number	WD1	WDR1	WDB1																																												
Configuration			 * with color cap installed (sold separately)																																												
Features	<ul style="list-style-type: none"> Series includes rocker and push-button switches Sealed type available for use in different environments. <p>* These switches are only for Industrial use. Do not use any other applications. (ex. home use)</p>																																														
Rating (Resistive load)	<ul style="list-style-type: none"> 15 A 250 V AC 0.5 A 250 V DC 0.9 A 125 V DC 15 A 30 V DC 		<table border="1"> <tr> <td><Momentary> 10 A 250 V AC 0.4 A 250 V DC 0.8 A 125 V DC 8 A 30 V DC</td> <td><Alternate> 15 A 250 V AC 0.5 A 250 V DC 0.9 A 125 V DC 15 A 30 V DC</td> </tr> </table>	<Momentary> 10 A 250 V AC 0.4 A 250 V DC 0.8 A 125 V DC 8 A 30 V DC	<Alternate> 15 A 250 V AC 0.5 A 250 V DC 0.9 A 125 V DC 15 A 30 V DC																																										
<Momentary> 10 A 250 V AC 0.4 A 250 V DC 0.8 A 125 V DC 8 A 30 V DC	<Alternate> 15 A 250 V AC 0.5 A 250 V DC 0.9 A 125 V DC 15 A 30 V DC																																														
Protection grade	<table border="1"> <thead> <tr> <th rowspan="2"></th> <th colspan="3">Outer side of the panel</th> <th colspan="3">Inner side of the panel</th> </tr> <tr> <th>Toggle type</th> <th>Rocker type</th> <th>Pushbutton type</th> <th>Toggle type</th> <th>Rocker type</th> <th>Pushbutton type</th> </tr> </thead> <tbody> <tr> <td>Standard type +with rubber cap</td> <td>IP54</td> <td>-</td> <td>-</td> <td>IP40</td> <td>-</td> <td>-</td> </tr> <tr> <td>Panel sealed type</td> <td>IP67</td> <td>IP64</td> <td>IP67</td> <td>IP40</td> <td>IP40</td> <td>IP40</td> </tr> <tr> <td>Terminal sealed type</td> <td>IP67</td> <td>IP64</td> <td>-</td> <td>IP60</td> <td>IP60</td> <td>-</td> </tr> <tr> <td>Wire leads sealed type</td> <td>IP67</td> <td>IP64</td> <td>-</td> <td>IP67</td> <td>IP67</td> <td>-</td> </tr> </tbody> </table>							Outer side of the panel			Inner side of the panel			Toggle type	Rocker type	Pushbutton type	Toggle type	Rocker type	Pushbutton type	Standard type +with rubber cap	IP54	-	-	IP40	-	-	Panel sealed type	IP67	IP64	IP67	IP40	IP40	IP40	Terminal sealed type	IP67	IP64	-	IP60	IP60	-	Wire leads sealed type	IP67	IP64	-	IP67	IP67	-
	Outer side of the panel			Inner side of the panel																																											
	Toggle type	Rocker type	Pushbutton type	Toggle type	Rocker type	Pushbutton type																																									
Standard type +with rubber cap	IP54	-	-	IP40	-	-																																									
Panel sealed type	IP67	IP64	IP67	IP40	IP40	IP40																																									
Terminal sealed type	IP67	IP64	-	IP60	IP60	-																																									
Wire leads sealed type	IP67	IP64	-	IP67	IP67	-																																									
Mechanical life	Standard type ■ 1-pole and 2-pole Min. 10 ⁵ ■ 3-pole and 4-pole Min. 8.5×10 ⁴	Panel sealed type Terminal sealed type Wire leads sealed type ■ Min. 5×10 ⁴ ON-OFF ON-ON ON-OFF-ON ■ Min. 3×10 ⁴ ON-(ON) (ON)-OFF-(ON) ON-OFF-(ON)	Min. 3×10 ⁴	Min. 3×10 ⁴																																											
Electrical life	■ Standard and Panel sealed type Min. 3×10 ⁴ ■ Sealed type Min. 1.5×10 ⁴	■ Standard type Min. 3×10 ⁴ ■ Panel sealed and Sealed type Min. 10 ⁴	Min. 10 ⁴																																												
Terminal style	<ul style="list-style-type: none"> 250 Quick-connect terminal Solder terminal Screw terminal Wire lead type 	<ul style="list-style-type: none"> Solder terminal Screw terminal Wire lead type 	<ul style="list-style-type: none"> Solder terminal Screw terminal 																																												
Safety standard	-			-																																											
Mounting method *1		<Standard type> 	<Sealed type> 																																												

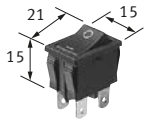



	Mounting panel with round holes	Snap-in mounting into panel with square holes	Screw mounting panel with square holes
*1: Mounting method			




Operation Switches Selector Chart

Category	Snap Switches				
Product name	T-10 Series Switches		T-06/T-03 Series Switches		
Initial of part number	WD1*31F		WD1**1F		
Configuration					
Features	<ul style="list-style-type: none"> • Capable of high capacity switching (10 A 250 V AC and 15 A 125 V AC) • Terminals constructed for easy implementation <p>* These switches are only for Industrial use. Do not use any other applications. (ex. home use)</p>		<ul style="list-style-type: none"> • Depth of 18.6 mm saves space <p>* These switches are only for Industrial use. Do not use any other applications. (ex. home use)</p>		
Rating (Resistive load)	10 A 250 V AC 15 A 125 V AC 8 A 30 V DC 0.8 A 125 V DC 0.4 A 250 V DC		<table border="1"> <tr> <td><6A Snap switches> 6 A 125 V AC 6 A 30 V DC 3 A 250 V AC</td> <td><3A Snap switches> 3 A 125 V AC 2 A 250 V AC</td> </tr> </table>	<6A Snap switches> 6 A 125 V AC 6 A 30 V DC 3 A 250 V AC	<3A Snap switches> 3 A 125 V AC 2 A 250 V AC
<6A Snap switches> 6 A 125 V AC 6 A 30 V DC 3 A 250 V AC	<3A Snap switches> 3 A 125 V AC 2 A 250 V AC				
Protection grade	IP40		IP40		
Mechanical life	Min. 10 ⁵		Min. 5×10 ⁴		
Electrical life	Min. 3×10 ⁴ (rated load) (10 cpm)		<table border="1"> <tr> <td><6A Snap switches> Min. 3×10⁴ (rated load) (10 cpm)</td> <td><6A Snap switches> Min. 10⁴ (rated load) (10 cpm)</td> </tr> </table>	<6A Snap switches> Min. 3×10 ⁴ (rated load) (10 cpm)	<6A Snap switches> Min. 10 ⁴ (rated load) (10 cpm)
<6A Snap switches> Min. 3×10 ⁴ (rated load) (10 cpm)	<6A Snap switches> Min. 10 ⁴ (rated load) (10 cpm)				
Terminal style	• Solder terminal		• Solder terminal		
Safety standard	-		-		
Mounting method *1					

	Mounting panel with round holes	Snap-in mounting into panel with square holes	Screw mounting panel with square holes
*1: Mounting method			

Operation Switches Selector Chart

Category	Power Rocker Switches	
Product name	AJ7 (J7) Switches	AJ8 (J8) Switches
Initial of part number	AJ7	AJ8
Configuration		
Features	<ul style="list-style-type: none"> • High inrush current resistance is ideal for power switches of office automation equipment. • Operation that only requires a light touch • A broad product line (TV-5 rating type available) 	<ul style="list-style-type: none"> • Power rocker switches for safety requirements. • High inrush current resistance is ideal for Power switch of office automation equipment. • A broad product line (TV-8 rating type added to lineup)
Rating (Resistive load)	<ul style="list-style-type: none"> • 6 A type 6 A 250 V AC • 10 A type 10 A 250 V AC 	16 A 250 V AC
Protection grade	IP40	IP40
Mechanical life	Min. 5×10 ⁴	Min. 5×10 ⁴
Electrical life	Min. 10 ⁴	Min. 10 ⁴
Terminal style	<ul style="list-style-type: none"> • 187 Quick-connect terminal • Soldering terminal • P/C board terminal • P/C board right angle terminal • P/C board left angle terminal 	<ul style="list-style-type: none"> • 250 Quick-connect terminal • Soldering terminal • P/C board terminal • P/C board right angle terminal • P/C board left angle terminal
Safety standard	UL/C-UL ENEC/VDE	UL/C-UL ENEC/VDE
Mounting method *1		

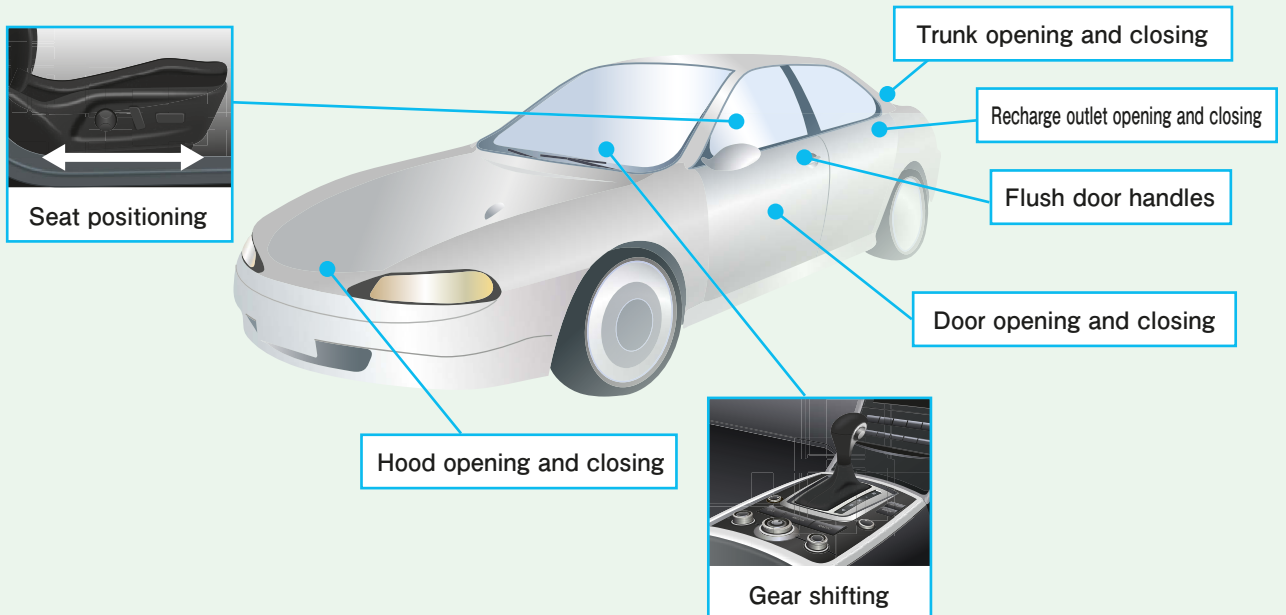
	Mounting panel with round holes	Snap-in mounting into panel with square holes	Screw mounting panel with square holes
*1: Mounting method			

■ Application ■

Switches







- Automotive devices
- Electrical appliances
- Caregiving
- Security
- Industry
- OA equipment

Automotive



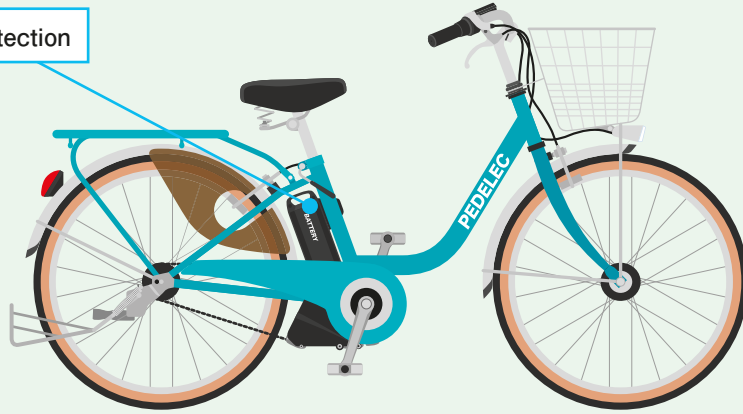
Motorcycles



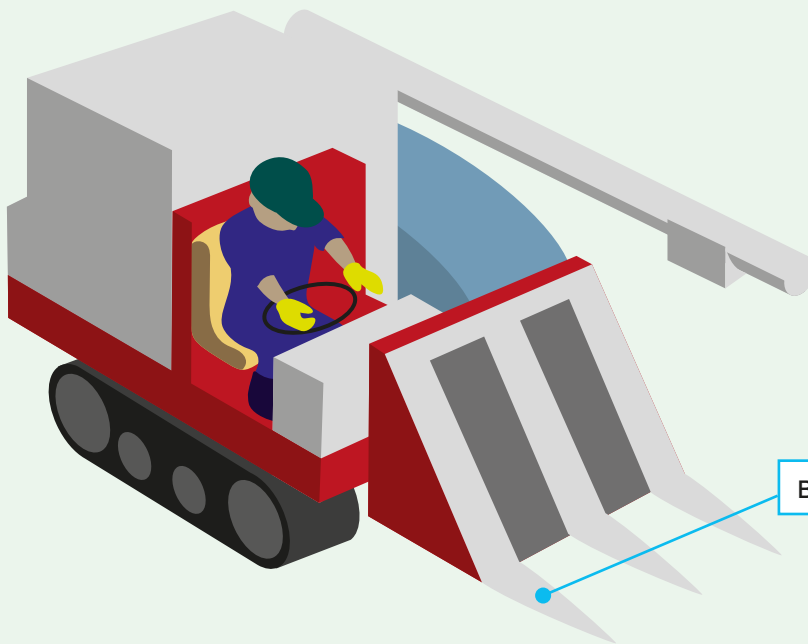
Turquoise Stroke Mini Switches Resistor installed type	Turquoise stroke mini switches	Turquoise stroke switches	ABJ (BJ) Turquoise switches	ABS (BS) Turquoise switches	AV6 (CS) switches
ASQMR	ASQM	ASQ	ABJ	ABS	AV6
					
Disconnection · Short circuit detect Small size, IP67		Dust and water proofing (IP67)			Low profile and workability High capacity

E-bikes






Battery presence detection



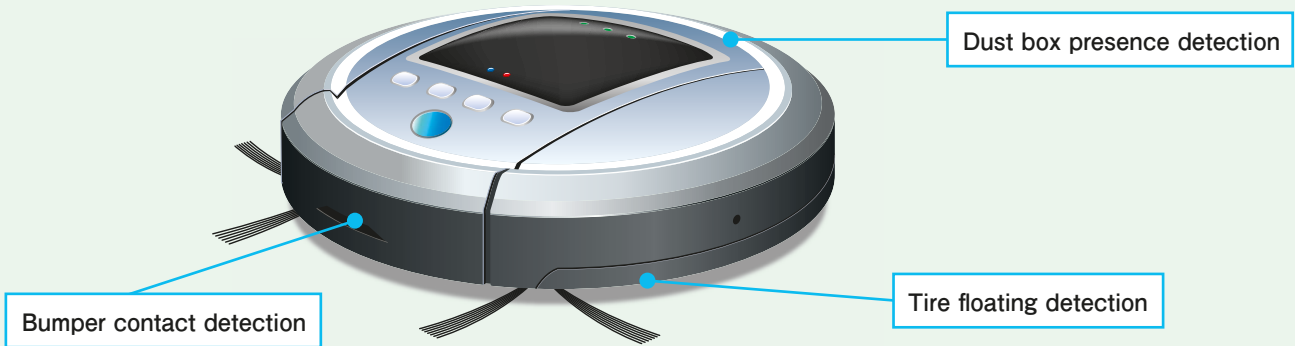
Combines



Blade upper/lower limit position detection

Turquoise stroke mini switches	Turquoise stroke switches	ABJ (BJ) Turquoise switches	ABS (BS) Turquoise switches	ABV (BV) Turquoise switches
ASQM	ASQ	ABJ	ABS	ABV
				
Dust and water proofing (IP67)				Dust and water proofing (IP67) Sturdy and high capacity

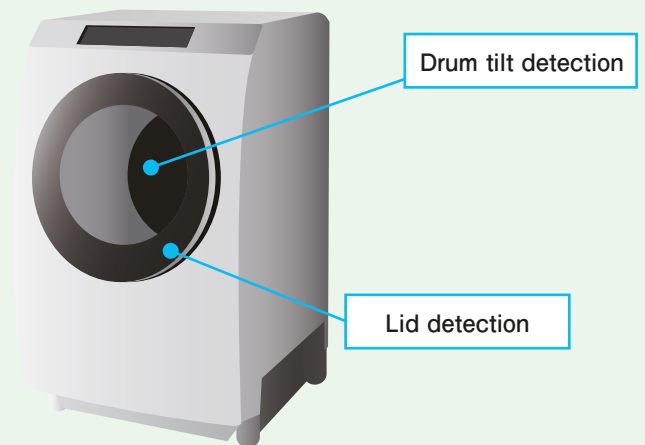
Cleaning robots



Vacuum cleaners

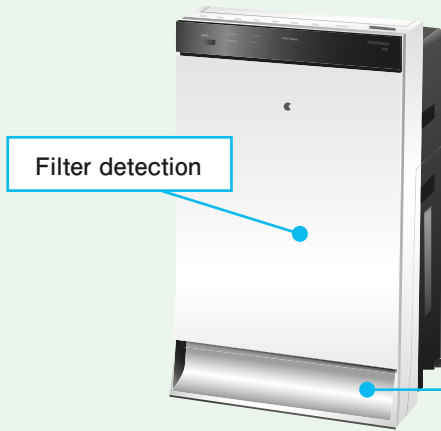


Washing machines

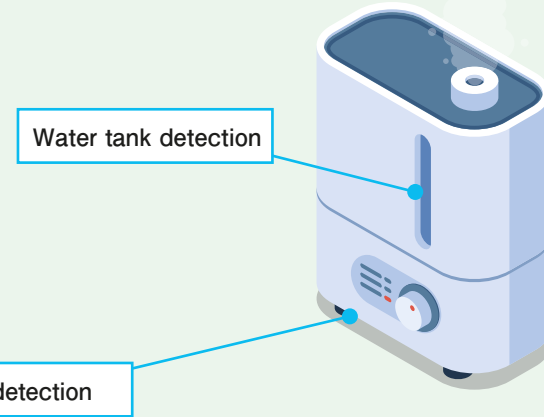


AH1 (FJ) switches AH1	AV3 (FS) Snap-action switches AV3	AVT3 (FST) Snap-action switches AVT3	AVM3 (FS) Snap-action switches AVM3	AVL3 (FST) Snap-action switches AVL3
Dust			Long life	
Turquoise Stroke Mini Switches Resistor installed type ASQMR	Turquoise stroke mini switches ASQM	Turquoise stroke switches ASQ	ABJ (BJ) Turquoise switches ABJ	ABS (BS) Turquoise switches ABS
Disconnection · Short circuit detect Small size, IP67		Dust and water proofing (IP67)		

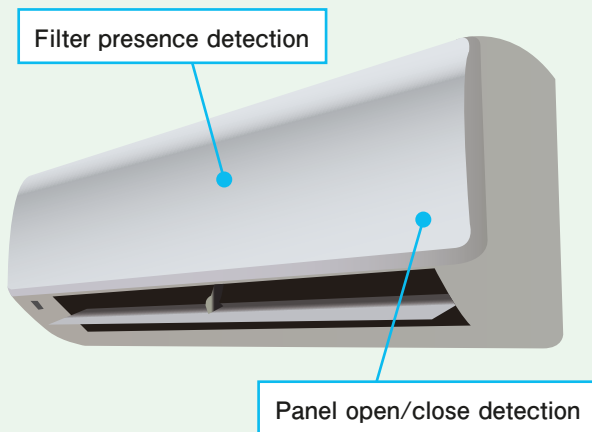
Air cleaners



Humidifiers











Air conditioners

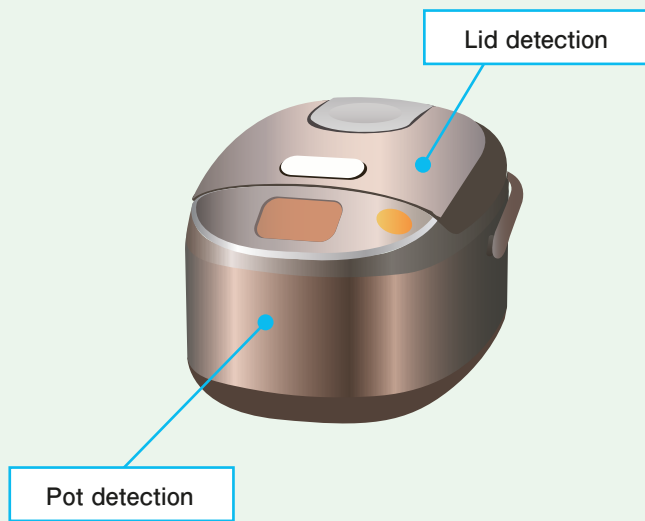


Electric heaters and fan heaters

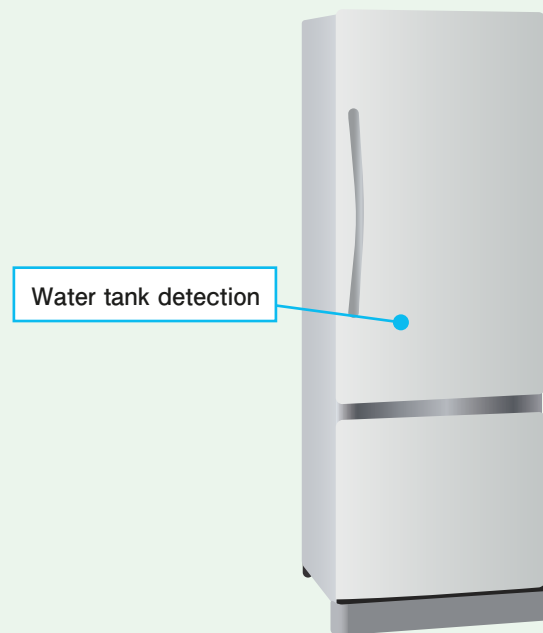


<div data-bbox="151 1500 343 1556">AHF2 (TiP) switches</div> <div data-bbox="151 1563 215 1590">AHF2</div>  <div data-bbox="151 1720 343 1776">Highly reliable tilt detection</div>	<div data-bbox="351 1500 542 1556">AV6 (CS) switches</div> <div data-bbox="351 1563 406 1590">AV6</div>  <div data-bbox="351 1720 542 1776">Low profile and workability</div>				
<div data-bbox="151 1809 343 1865">Turquoise stroke mini switches</div> <div data-bbox="151 1870 215 1897">ASQM</div> 	<div data-bbox="351 1809 542 1865">Turquoise stroke switches</div> <div data-bbox="351 1870 406 1897">ASQ</div> 	<div data-bbox="550 1809 742 1865">ABJ (BJ) Turquoise switches</div> <div data-bbox="550 1870 606 1897">ABJ</div> 	<div data-bbox="750 1809 941 1865">ABS (BS) Turquoise switches</div> <div data-bbox="750 1870 805 1897">ABS</div> 	<div data-bbox="949 1809 1141 1865">AH1 (FJ) switches</div> <div data-bbox="949 1870 1005 1897">AH1</div> 	<div data-bbox="1149 1809 1340 1865">AV3 (FS) Snap-action switches</div> <div data-bbox="1149 1870 1204 1897">AV3</div> 
Dust and water proofing (IP67)					

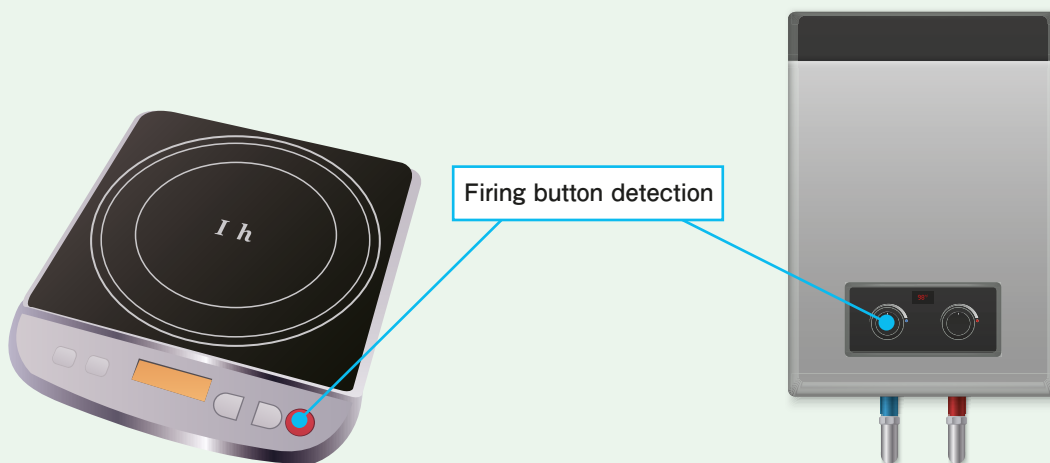
Rice cookers








Refrigerators

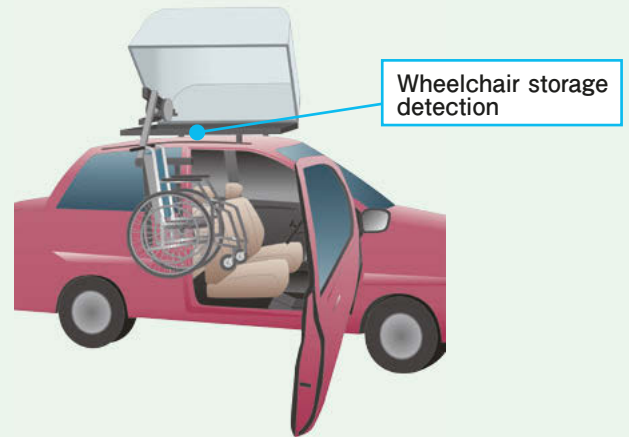
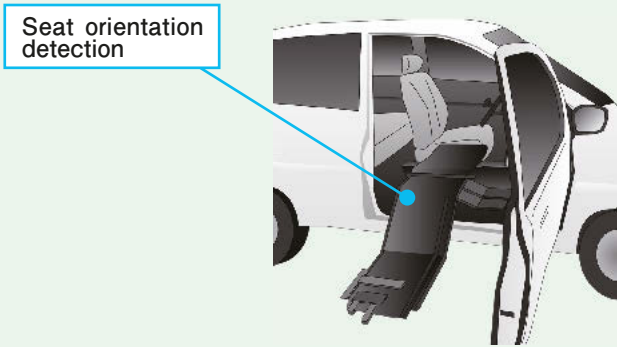


Gas appliances and water heaters

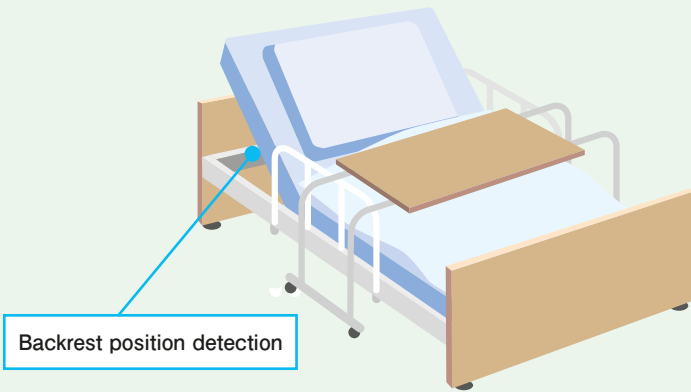


Turquoise Stroke Mini Switches Resistor installed type	Turquoise stroke mini switches	Turquoise stroke switches	ABJ (BJ) Turquoise switches	ABS (BS) Turquoise switches
ASQMR	ASQM	ASQ	ABJ	ABS
				
Disconnection · Short circuit detect Small size, IP67		Dust and water proofing (IP67)		

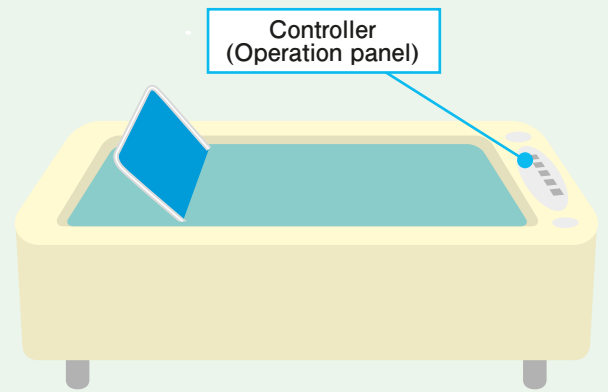
Nursing vehicles



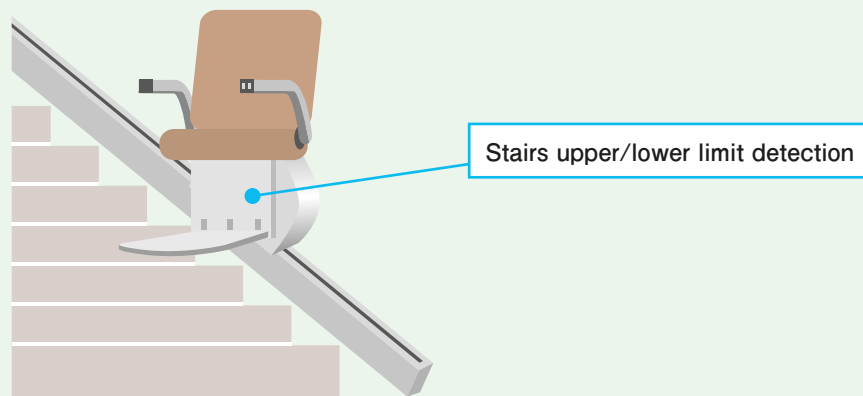
Hospital beds



Bathing care devices



Stair lifts



Turquoise stroke mini switches	Turquoise stroke switches	ABJ (BJ) Turquoise switches	ABS (BS) Turquoise switches	ABV (BV) Turquoise switches
ASQM	ASQ	ABJ	ABS	ABV

Dust and water proofing (IP67)

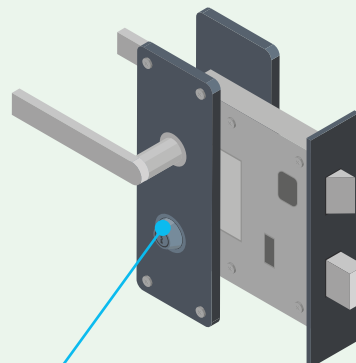
Dust and water proofing (IP67)
Sturdy and high capacity

Security cameras



Lens rotation limit position detection

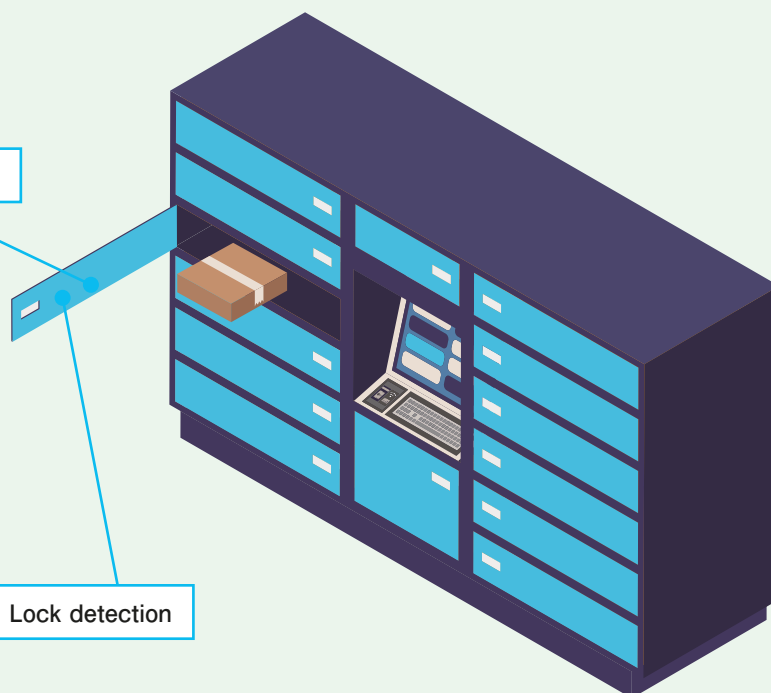
Electronic locks








Lock detection

Home delivery boxes

Door open/close detection

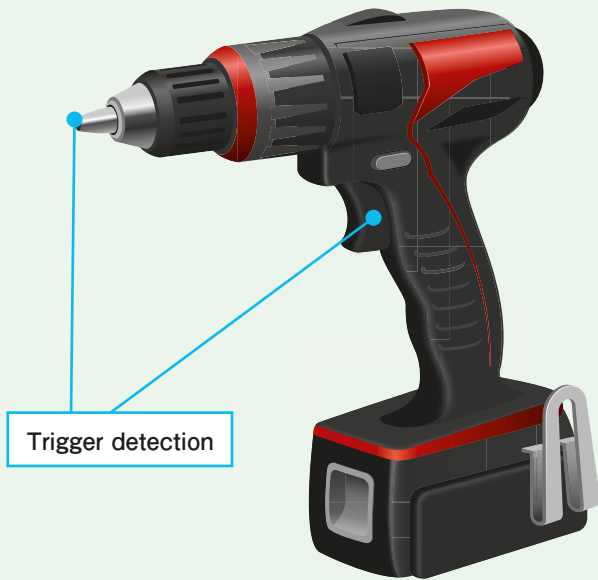


Lock detection

Turquoise stroke mini switches	Turquoise stroke switches	ABJ (BJ) Turquoise switches	ABS (BS) Turquoise switches	AV4 (FU) switches
ASQM	ASQ	ABJ	ABS	AV4
				
Dust and water proofing (IP67)				Miniature size

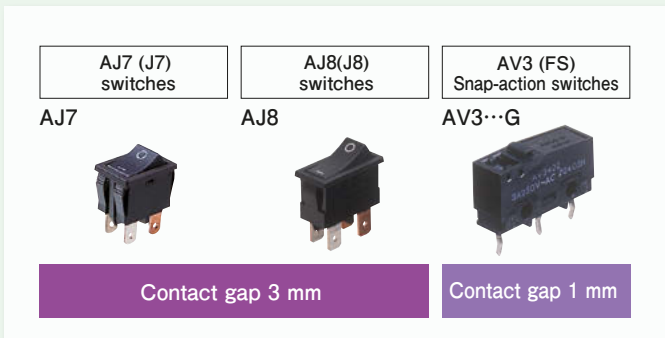
Electric tools

Production equipments



Turquoise stroke mini switches ASQM	Turquoise stroke switches ASQ	ABJ (BJ) Turquoise switches ABJ	ABS (BS) Turquoise switches ABS
Dust and water proofing (IP67)			
Snap switches push-button type WDB1	Snap switches toggle type WD1	Snap switches rocker type WDR1	
High capacity Wide range of ratings and handle selection			

Multi-function machines



Please refer to "the latest product specifications" when designing your product.

- Requests to customers:
<https://industrial.panasonic.com/ac/e/salespolicies/>

■Global Sales Network Information: industrial.panasonic.com/ac/e/salesnetwork

Panasonic
INDUSTRY

Panasonic Industry Co., Ltd.

Electromechanical Control Business Division
■1006, Oaza Kadoma, Kadoma-shi, Osaka 571-8506, Japan
industrial.panasonic.com/ac/e/