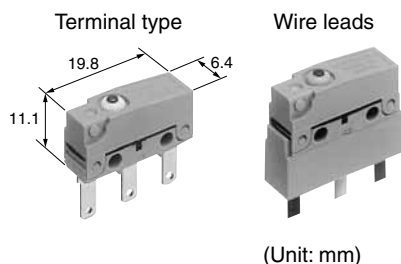




Subminiature Size Sealed Switches

TURQUOISE SWITCHES ABS (BS) SWITCHES



RoHS compliant

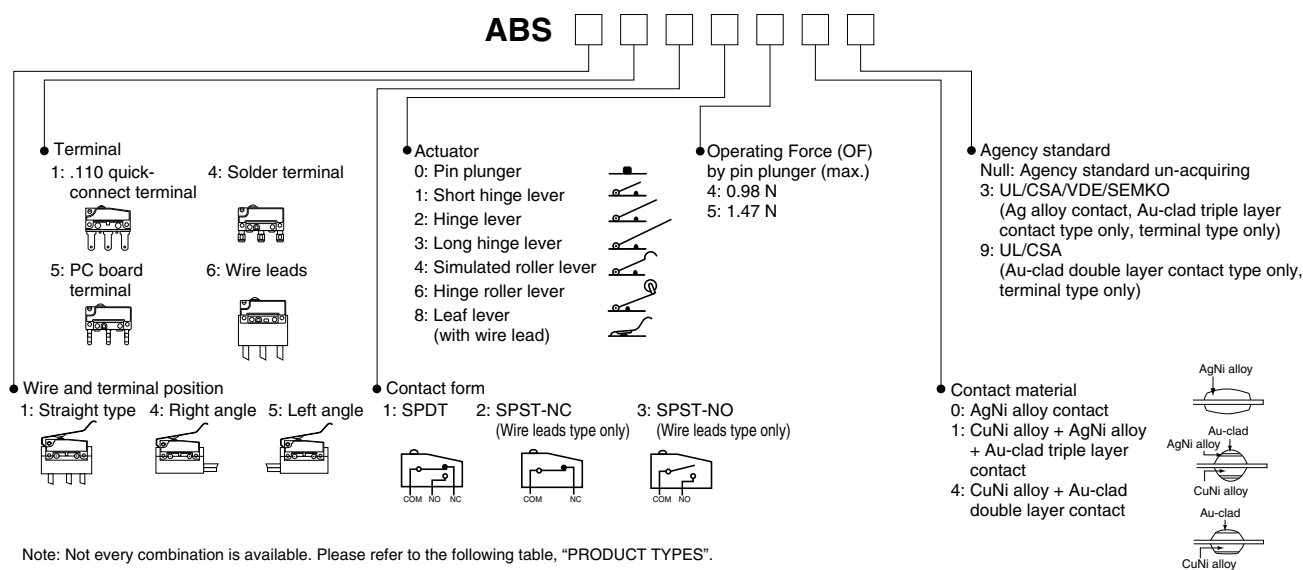
FEATURES

- Subminiature size, High sealing performance sealed switches
- Elastomer double molding technology contribute to steady sealing quality
- Superior operating position precision

TYPICAL APPLICATIONS

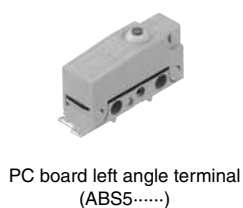
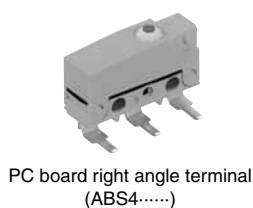
- Automotive (detection of door opening and closing)
- Vacuum cleaner
- Air purifier
- Gas cooking range

ORDERING INFORMATION

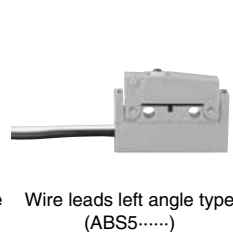
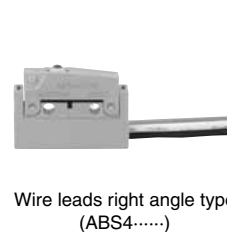
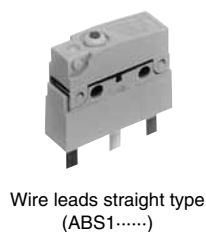


TERMINAL AND WIRE LEAD POSITION

■ PC board angle terminals



■ Wire leads position



ABS (BS) Turquoise Switches

PRODUCT TYPES

■ Terminal type

1) AgNi alloy contact

Actuator	Operating Force OF Max.	.110 quick-connect terminal	Solder terminal	PC board terminal		
				Standard terminal	Right angle terminal	Left angle terminal
Pin plunger	0.98 N	ABS1110403	ABS1410403	ABS1510403	ABS4510403	ABS5510403
	1.47 N	ABS1110503	ABS1410503	ABS1510503	ABS4510503	ABS5510503
Short hinge lever	0.39 N	ABS1111403	ABS1411403	ABS1511403	ABS4511403	ABS5511403
	0.59 N	ABS1111503	ABS1411503	ABS1511503	ABS4511503	ABS5511503
Hinge lever	0.34 N	ABS1112403	ABS1412403	ABS1512403	ABS4512403	ABS5512403
	0.54 N	ABS1112503	ABS1412503	ABS1512503	ABS4512503	ABS5512503
Long hinge lever	0.25 N	ABS1113403	ABS1413403	ABS1513403	ABS4513403	ABS5513403
	0.44 N	ABS1113503	ABS1413503	ABS1513503	ABS4513503	ABS5513503
Simulated roller lever	0.34 N	ABS1114403	ABS1414403	ABS1514403	ABS4514403	ABS5514403
	0.54 N	ABS1114503	ABS1414503	ABS1514503	ABS4514503	ABS5514503
Roller lever	0.39 N	ABS1116403	ABS1416403	ABS1516403	ABS4516403	ABS5516403
	0.59 N	ABS1116503	ABS1416503	ABS1516503	ABS4516503	ABS5516503

2) CuNi alloy + AgNi alloy + Au-clad triple layer contact

Actuator	Operating Force OF Max.	.110 quick-connect terminal	Solder terminal	PC board terminal		
				Standard terminal	Right angle terminal	Left angle terminal
Pin plunger	0.98 N	ABS1110413	ABS1410413	ABS1510413	ABS4510413	ABS5510413
	1.47 N	ABS1110513	ABS1410513	ABS1510513	ABS4510513	ABS5510513
Short hinge lever	0.39 N	ABS1111413	ABS1411413	ABS1511413	ABS4511413	ABS5511413
	0.59 N	ABS1111513	ABS1411513	ABS1511513	ABS4511513	ABS5511513
Hinge lever	0.34 N	ABS1112413	ABS1412413	ABS1512413	ABS4512413	ABS5512413
	0.54 N	ABS1112513	ABS1412513	ABS1512513	ABS4512513	ABS5512513
Long hinge lever	0.25 N	ABS1113413	ABS1413413	ABS1513413	ABS4513413	ABS5513413
	0.44 N	ABS1113513	ABS1413513	ABS1513513	ABS4513513	ABS5513513
Simulated roller lever	0.34 N	ABS1114413	ABS1414413	ABS1514413	ABS4514413	ABS5514413
	0.54 N	ABS1114513	ABS1414513	ABS1514513	ABS4514513	ABS5514513
Roller lever	0.39 N	ABS1116413	ABS1416413	ABS1516413	ABS4516413	ABS5516413
	0.59 N	ABS1116513	ABS1416513	ABS1516513	ABS4516513	ABS5516513

3) CuNi alloy + Au-clad double layer contact

Actuator	Operating Force OF Max.	.110 quick-connect terminal	Solder terminal	PC board terminal		
				Standard terminal	Right angle terminal	Left angle terminal
Pin plunger	0.98 N	ABS1110449	ABS1410449	ABS1510449	ABS4510449	ABS5510449
	1.47 N	ABS1110549	ABS1410549	ABS1510549	ABS4510549	ABS5510549
Short hinge lever	0.39 N	ABS1111449	ABS1411449	ABS1511449	ABS4511449	ABS5511449
	0.59 N	ABS1111549	ABS1411549	ABS1511549	ABS4511549	ABS5511549
Hinge lever	0.34 N	ABS1112449	ABS1412449	ABS1512449	ABS4512449	ABS5512449
	0.54 N	ABS1112549	ABS1412549	ABS1512549	ABS4512549	ABS5512549
Long hinge lever	0.25 N	ABS1113449	ABS1413449	ABS1513449	ABS4513449	ABS5513449
	0.44 N	ABS1113549	ABS1413549	ABS1513549	ABS4513549	ABS5513549
Simulated roller lever	0.34 N	ABS1114449	ABS1414449	ABS1514449	ABS4514449	ABS5514449
	0.54 N	ABS1114549	ABS1414549	ABS1514549	ABS4514549	ABS5514549
Roller lever	0.39 N	ABS1116449	ABS1416449	ABS1516449	ABS4516449	ABS5516449
	0.59 N	ABS1116549	ABS1416549	ABS1516549	ABS4516549	ABS5516549

■ 3 wire leads type (SPDT) Note: With agency standard type is not available

1) AgNi alloy contact

Actuator	Operating Force OF Max.	SPDT		
		Straight type	Right angle type	Left angle type
Pin plunger	0.98 N	ABS161040	ABS461040	ABS561040
	1.47 N	ABS161050	ABS461050	ABS561050
Short hinge lever	0.39 N	ABS161140	ABS461140	ABS561140
	0.59 N	ABS161150	ABS461150	ABS561150
Hinge lever	0.34 N	ABS161240	ABS461240	ABS561240
	0.54 N	ABS161250	ABS461250	ABS561250
Long hinge lever	0.25 N	ABS161340	ABS461340	ABS561340
	0.44 N	ABS161350	ABS461350	ABS561350
Simulated roller lever	0.34 N	ABS161440	ABS461440	ABS561440
	0.54 N	ABS161450	ABS461450	ABS561450
Roller lever	0.39 N	ABS161640	ABS461640	ABS561640
	0.59 N	ABS161650	ABS461650	ABS561650

2) CuNi alloy + AgNi alloy + Au-clad triple layer contact

Actuator	Operating Force OF Max.	SPDT		
		Straight type	Right angle type	Left angle type
Pin plunger	0.98 N	ABS161041	ABS461041	ABS561041
	1.47 N	ABS161051	ABS461051	ABS561051
Short hinge lever	0.39 N	ABS161141	ABS461141	ABS561141
	0.59 N	ABS161151	ABS461151	ABS561151
Hinge lever	0.34 N	ABS161241	ABS461241	ABS561241
	0.54 N	ABS161251	ABS461251	ABS561251
Long hinge lever	0.25 N	ABS161341	ABS461341	ABS561341
	0.44 N	ABS161351	ABS461351	ABS561351
Simulated roller lever	0.34 N	ABS161441	ABS461441	ABS561441
	0.54 N	ABS161451	ABS461451	ABS561451
Roller lever	0.39 N	ABS161641	ABS461641	ABS561641
	0.59 N	ABS161651	ABS461651	ABS561651

3) CuNi alloy + Au-clad double layer contact

Actuator	Operating Force OF Max.	SPDT		
		Straight type	Right angle type	Left angle type
Pin plunger	0.98 N	ABS161044	ABS461044	ABS561044
	1.47 N	ABS161054	ABS461054	ABS561054
Short hinge lever	0.39 N	ABS161144	ABS461144	ABS561144
	0.59 N	ABS161154	ABS461154	ABS561154
Hinge lever	0.34 N	ABS161244	ABS461244	ABS561244
	0.54 N	ABS161254	ABS461254	ABS561254
Long hinge lever	0.25 N	ABS161344	ABS461344	ABS561344
	0.44 N	ABS161354	ABS461354	ABS561354
Simulated roller lever	0.34 N	ABS161444	ABS461444	ABS561444
	0.54 N	ABS161454	ABS461454	ABS561454
Roller lever	0.39 N	ABS161644	ABS461644	ABS561644
	0.59 N	ABS161654	ABS461654	ABS561654

ABS (BS) Turquoise Switches

■ **2 wire leads type (SPST-NC)** Note: With agency standard type is not available

1) AgNi alloy contact

Actuator	Operating Force OF Max.	SPST-NC		
		Straight type	Right angle type	Left angle type
Pin plunger	0.98 N	ABS162040	ABS462040	ABS562040
	1.47 N	ABS162050	ABS462050	ABS562050
Short hinge lever	0.39 N	ABS162140	ABS462140	ABS562140
	0.59 N	ABS162150	ABS462150	ABS562150
Hinge lever	0.34 N	ABS162240	ABS462240	ABS562240
	0.54 N	ABS162250	ABS462250	ABS562250
Long hinge lever	0.25 N	ABS162340	ABS462340	ABS562340
	0.44 N	ABS162350	ABS462350	ABS562350
Simulated roller lever	0.34 N	ABS162440	ABS462440	ABS562440
	0.54 N	ABS162450	ABS462450	ABS562450
Roller lever	0.39 N	ABS162640	ABS462640	ABS562640
	0.59 N	ABS162650	ABS462650	ABS562650

2) CuNi alloy + AgNi alloy + Au-clad triple layer contact

Actuator	Operating Force OF Max.	SPST-NC		
		Straight type	Right angle type	Left angle type
Pin plunger	0.98 N	ABS162041	ABS462041	ABS562041
	1.47 N	ABS162051	ABS462051	ABS562051
Short hinge lever	0.39 N	ABS162141	ABS462141	ABS562141
	0.59 N	ABS162151	ABS462151	ABS562151
Hinge lever	0.34 N	ABS162241	ABS462241	ABS562241
	0.54 N	ABS162251	ABS462251	ABS562251
Long hinge lever	0.25 N	ABS162341	ABS462341	ABS562341
	0.44 N	ABS162351	ABS462351	ABS562351
Simulated roller lever	0.34 N	ABS162441	ABS462441	ABS562441
	0.54 N	ABS162451	ABS462451	ABS562451
Roller lever	0.39 N	ABS162641	ABS462641	ABS562641
	0.59 N	ABS162651	ABS462651	ABS562651

3) CuNi alloy + Au-clad double layer contact

Actuator	Operating Force OF Max.	SPST-NC		
		Straight type	Right angle type	Left angle type
Pin plunger	0.98 N	ABS162044	ABS462044	ABS562044
	1.47 N	ABS162054	ABS462054	ABS562054
Short hinge lever	0.39 N	ABS162144	ABS462144	ABS562144
	0.59 N	ABS162154	ABS462154	ABS562154
Hinge lever	0.34 N	ABS162244	ABS462244	ABS562244
	0.54 N	ABS162254	ABS462254	ABS562254
Long hinge lever	0.25 N	ABS162344	ABS462344	ABS562344
	0.44 N	ABS162354	ABS462354	ABS562354
Simulated roller lever	0.34 N	ABS162444	ABS462444	ABS562444
	0.54 N	ABS162454	ABS462454	ABS562454
Roller lever	0.39 N	ABS162644	ABS462644	ABS562644
	0.59 N	ABS162654	ABS462654	ABS562654

■ **2 wire leads type (SPST-NO)** Note: With agency standard type is not available

1) AgNi alloy contact

Actuator	Operating Force OF Max.	SPST-NO		
		Straight type	Right angle type	Left angle type
Pin plunger	0.98 N	ABS163040	ABS463040	ABS563040
	1.47 N	ABS163050	ABS463050	ABS563050
Short hinge lever	0.39 N	ABS163140	ABS463140	ABS563140
	0.59 N	ABS163150	ABS463150	ABS563150
Hinge lever	0.34 N	ABS163240	ABS463240	ABS563240
	0.54 N	ABS163250	ABS463250	ABS563250
Long hinge lever	0.25 N	ABS163340	ABS463340	ABS563340
	0.44 N	ABS163350	ABS463350	ABS563350
Simulated roller lever	0.34 N	ABS163440	ABS463440	ABS563440
	0.54 N	ABS163450	ABS463450	ABS563450
Roller lever	0.39 N	ABS163640	ABS463640	ABS563640
	0.59 N	ABS163650	ABS463650	ABS563650

2) CuNi alloy + AgNi alloy + Au-clad triple layer contact

Actuator	Operating Force OF Max.	SPST-NO		
		Straight	Right angle	Left angle
Pin plunger	0.98 N	ABS163041	ABS463041	ABS563041
	1.47 N	ABS163051	ABS463051	ABS563051
Short hinge lever	0.39 N	ABS163141	ABS463141	ABS563141
	0.59 N	ABS163151	ABS463151	ABS563151
Hinge lever	0.34 N	ABS163241	ABS463241	ABS563241
	0.54 N	ABS163251	ABS463251	ABS563251
Long hinge lever	0.25 N	ABS163341	ABS463341	ABS563341
	0.44 N	ABS163351	ABS463351	ABS563351
Simulated roller lever	0.34 N	ABS163441	ABS463441	ABS563441
	0.54 N	ABS163451	ABS463451	ABS563451
Roller lever	0.39 N	ABS163641	ABS463641	ABS563641
	0.59 N	ABS163651	ABS463651	ABS563651

3) CuNi alloy + Au-clad double layer contact

Actuator	Operating Force OF Max.	SPST-NO		
		Straight	Right angle	Left angle
Pin plunger	0.98 N	ABS163044	ABS463044	ABS563044
	1.47 N	ABS163054	ABS463054	ABS563054
Short hinge lever	0.39 N	ABS163144	ABS463144	ABS563144
	0.59 N	ABS163154	ABS463154	ABS563154
Hinge lever	0.34 N	ABS163244	ABS463244	ABS563244
	0.54 N	ABS163254	ABS463254	ABS563254
Long hinge lever	0.25 N	ABS163344	ABS463344	ABS563344
	0.44 N	ABS163354	ABS463354	ABS563354
Simulated roller lever	0.34 N	ABS163444	ABS463444	ABS563444
	0.54 N	ABS163454	ABS463454	ABS563454
Roller lever	0.39 N	ABS163644	ABS463644	ABS563644
	0.59 N	ABS163654	ABS463654	ABS563654

ABS (BS) Turquoise Switches

■ Immersion protected type (3 wire leads type SPDT) Note: With agency standard type is not available

• Leaf lever type

1) AgNi alloy

Actuator	Operating force Max.	SPDT		
		Wire position		
		Straight	Right angle	Left angle
Leaf lever	0.88 N	ABS161840	ABS461840	ABS561840
	1.08 N	ABS161850	ABS461850	ABS561850

2) Au-clad triple layer

Actuator	Operating force Max.	SPDT		
		Wire position		
		Straight	Right angle	Left angle
Leaf lever	0.88 N	ABS161841	ABS461841	ABS561841
	1.08 N	ABS161851	ABS461851	ABS561851

3) Au-clad double layer

Actuator	Operating force Max.	SPDT		
		Wire position		
		Straight	Right angle	Left angle
Leaf lever	0.88 N	ABS161844	ABS461844	ABS561844
	1.08 N	ABS161854	ABS461854	ABS561854

■ Immersion protected type (2 wire leads type SPST-NC) Note: With agency standard type is not available

• Leaf lever type

1) AgNi alloy

Actuator	Operating force Max.	SPST-NC		
		Wire position		
		Straight	Right angle	Left angle
Leaf lever	0.88 N	ABS162840	ABS462840	ABS562840
	1.08 N	ABS162850	ABS462850	ABS562850

2) Au-clad triple layer

Actuator	Operating force Max.	SPST-NC		
		Wire position		
		Straight	Right angle	Left angle
Leaf lever	0.88 N	ABS162841	ABS462841	ABS562841
	1.08 N	ABS162851	ABS462851	ABS562851

3) Au-clad double layer

Actuator	Operating force Max.	SPST-NC		
		Wire position		
		Straight	Right angle	Left angle
Leaf lever	0.88 N	ABS162844	ABS462844	ABS562844
	1.08 N	ABS162854	ABS462854	ABS562854

■ Immersion protected type (2 wire leads type SPST-NO) Note: With agency standard type is not available

• Leaf lever type

1) AgNi alloy

Actuator	Operating force Max.	SPST-NO		
		Wire position		
		Straight	Right angle	Left angle
Leaf lever	0.88 N	ABS163840	ABS463840	ABS563840
	1.08 N	ABS163850	ABS463850	ABS563850

2) Au-clad triple layer

Actuator	Operating force Max.	SPST-NO		
		Wire position		
		Straight	Right angle	Left angle
Leaf lever	0.88 N	ABS163841	ABS463841	ABS563841
	1.08 N	ABS163851	ABS463851	ABS563851

* Agency standard: Please refer to "Ordering information".

3) Au-clad double layer

Actuator	Operating force Max. gf	SPST-NO		
		Wire position		
		Straight	Right angle	Left angle
Leaf lever	0.88 N	ABS163844	ABS463844	ABS563844
	1.08 N	ABS163854	ABS463854	ABS563854

* Agency standard: Please refer to "Ordering information".

SPECIFICATIONS

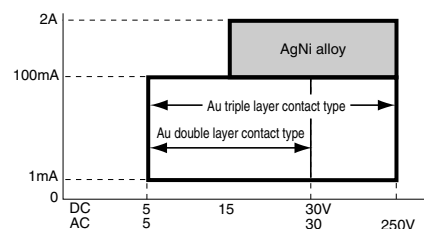
■ Contact rating

Item	Specifications			
Contact specifications	AgNi alloy contact type Plunger color: Black		Au-clad contact type	
			Triple layer contact type Plunger color: Red	Double layer contact type Plunger color: Green
Load style	Resistive load	Inductive load	Resistive load	Resistive load
125 V AC	2 A	2 A	0.1 A	—
250 V AC	2 A	2 A	0.1 A	—
30 V DC	2 A	2 A	0.1 A	0.1 A
125 V DC	0.4 A	0.05 A	—	—

• Low-level circuit rating (Au-clad contact type)

Rated voltage	Resistive load
6 V DC	5 mA
12 V DC	2 mA
24 V DC	1 mA

- Recommended contact material chart classified by load voltage & current (reference)



Note: If the contact is being used in the constant low-level circuit load range, the Au-clad double layer contact is recommended. If there is a danger of the current being less than 0.5 A, for instance if the contact is being turned on and off, the Au-clad triple layer contact type is recommended.

■ Characteristics

Item			Specifications
Expected life	Mechanical life (OT: Specified value)		Leaf lever: Min. 5x10 ⁵ (at 60 cpm), Other types: Min. 5x10 ⁶ (at 60 cpm)
	Electrical life (OT: Max.)	AgNi alloy contact type	Min. 5x10 ⁴ (at 20 cpm) (at rated load)
		Au-clad contact type	Min. 2x10 ⁵ (at 20 cpm) (at rated load)
Insulation resistance			Min. 100 MΩ (at 500 V DC insulation resistance meter)
Dielectric strength	Between non-continuous terminals		1,000 Vrms
	Between each terminal and other exposed metal parts		1,500 Vrms
	Between each terminal and ground		1,500 Vrms
Vibration resistance (Pin plunger type)			10 to 55 Hz at single amplitude of 0.75 mm (Contact opening Max. 1 msec.)
Shock resistance (Pin plunger type)			Min. 294 m/s ² (Contact opening Max. 1 msec.)
Contact resistance (Initial)	AgNi alloy contact type		Terminal type Max. 50 mΩ (by voltage drop 1 A 6 to 8 V DC) Wire leads: Max. 100 mΩ
	Au-clad contact type		Terminal type: Max. 100 mΩ (by voltage drop 0.1 A 6 to 8 V DC) Wire leads: Max. 150 mΩ
Allowable operating speed (at no load)			0.1 to 500 mm/sec.
Max. operating cycle rate (at no load)			120 cpm
Ambient temperature			−40°C to +85°C
Unit weight			Approx. 2 g (Terminal type)
Protection grade			IP67 (except exposed terminal part of terminal type)

■ Operating characteristics

Type of actuator	8th digit of Part No.	Operating Force OF, Max.	Release Force RF, Min.	Pretravel PT, Max.	Movement Differential MD, Max.	Overtravel OT, Min.	Operating Position OP
Pin plunger	4	0.98N	0.15N	0.6mm	0.1mm	0.4mm	8.4 $\pm$ 0.3mm
	5	1.47N	0.20N	0.6mm	0.1mm	0.4mm	8.4 $\pm$ 0.3mm
Short hinge lever	4	0.39N	0.034N	2.5mm	0.5mm	0.8mm	8.8 $\pm$ 0.8mm
	5	0.59N	0.039N	2.5mm	0.5mm	0.8mm	8.8 $\pm$ 0.8mm
Hinge lever	4	0.34N	0.029N	2.8mm	0.8mm	1.2mm	8.8 $\pm$ 0.8mm
	5	0.54N	0.034N	2.8mm	0.8mm	1.2mm	8.8 $\pm$ 0.8mm
Long hinge lever	4	0.25N	0.025N	3.5mm	1.0mm	1.6mm	8.8 $\pm$ 1.2mm
	5	0.44N	0.029N	3.5mm	1.0mm	1.6mm	8.8 $\pm$ 1.2mm
Simulated roller lever	4	0.34N	0.029N	2.8mm	0.8mm	1.2mm	11.65 $\pm$ 0.8mm
	5	0.54N	0.034N	2.8mm	0.8mm	1.2mm	11.65 $\pm$ 0.8mm
Roller lever	4	0.39N	0.034N	2.5mm	0.5mm	0.8mm	14.5 $\pm$ 0.8mm
	5	0.59N	0.039N	2.5mm	0.5mm	0.8mm	14.5 $\pm$ 0.8mm
Leaf lever	4	0.88N	0.17N	4.5mm	1.0mm	2.5mm	14.5 $\pm$ 1.5mm
	5	1.08N	0.20N	4.5mm	1.0mm	2.5mm	14.5 $\pm$ 1.5mm

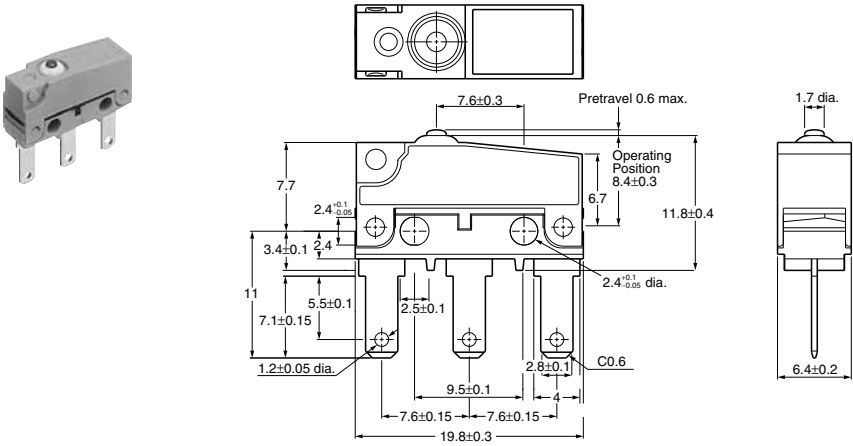
DIMENSIONS

(Unit: mm) General tolerance: ±0.25

The CAD data of the products with a **CAD Data** mark can be downloaded from: <http://industrial.panasonic.com/ac/e/>

■ .110 quick-connect terminal
Pin plunger

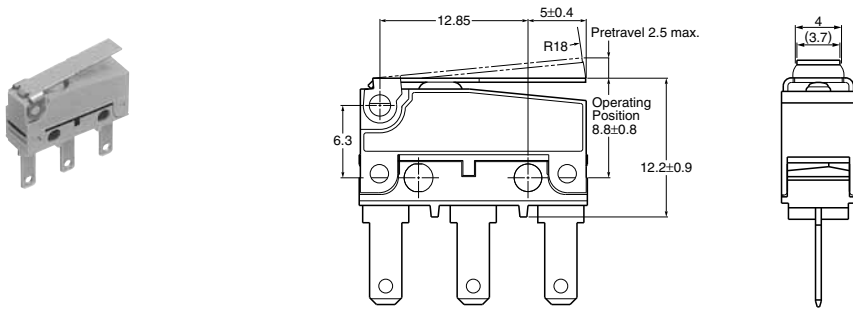
CAD Data



Pretravel PT, Max.		0.6mm
Movement Differential MD, Max.		0.1mm
Overtravel OT, Min.		0.4mm
Operating Position OP	Distance from mounting hole	8.4±0.3mm
	Distance from stand-off	11.8±0.4mm

Short hinge lever

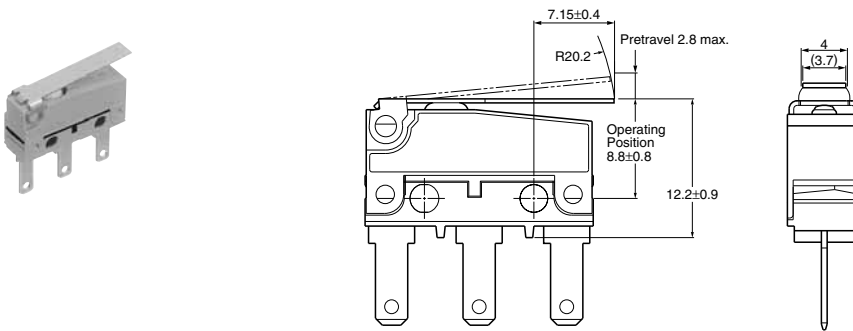
CAD Data



Pretravel PT, Max.		2.5mm
Movement Differential MD, Max.		0.5mm
Overtravel OT, Min.		0.8mm
Operating Position OP	Distance from mounting hole	8.8±0.8mm
	Distance from stand-off	12.2±0.9mm

Hinge lever

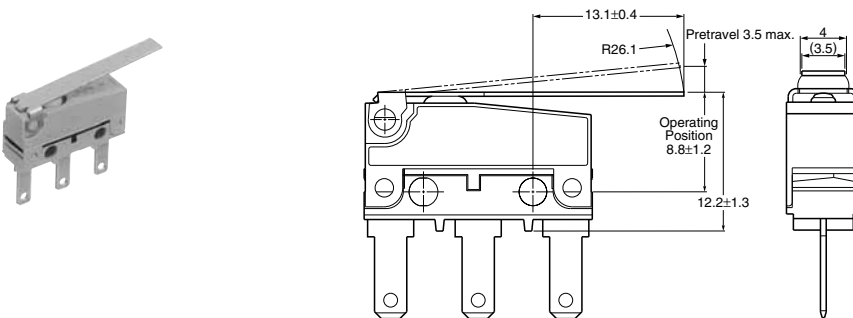
CAD Data



Pretravel PT, Max.		2.8mm
Movement Differential MD, Max.		0.8mm
Overtravel OT, Min.		1.2mm
Operating Position OP	Distance from mounting hole	8.8±0.8mm
	Distance from stand-off	12.2±0.9mm

Long hinge lever

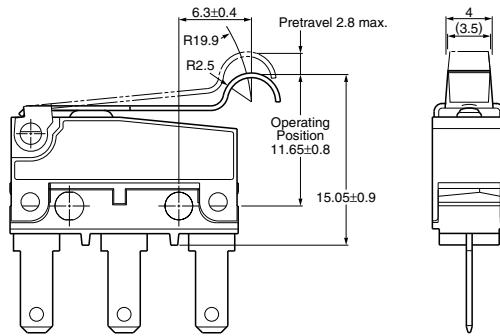
CAD Data



Pretravel PT, Max.		3.5mm
Movement Differential MD, Max.		1.0mm
Overtravel OT, Min.		1.6mm
Operating Position OP	Distance from mounting hole	8.8±1.2mm
	Distance from stand-off	12.2±1.3mm

Simulated roller lever

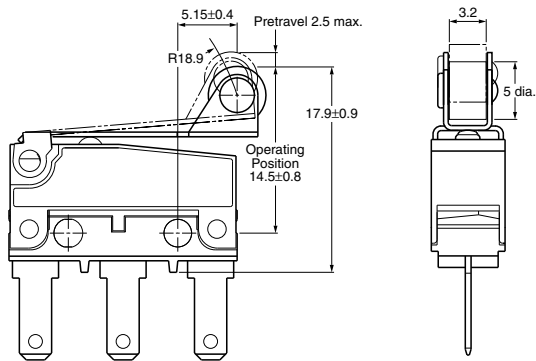
CAD Data



Pretravel PT, Max.		2.8mm
Movement Differential MD, Max.		0.8mm
Overtravel OT, Min.		1.2mm
Operating Position OP	Distance from mounting hole	11.65±0.8mm
	Distance from stand-off	15.05±0.9mm

Roller lever

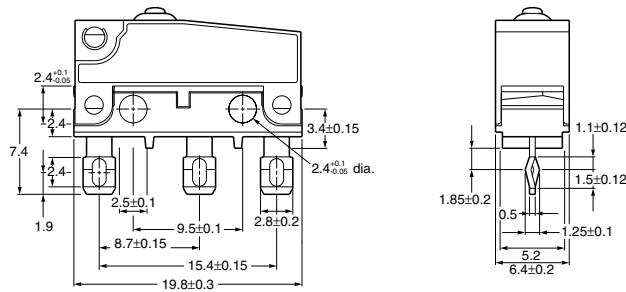
CAD Data



Pretravel PT, Max.		2.5mm
Movement Differential MD, Max.		0.5mm
Overtravel OT, Min.		0.8mm
Operating Position OP	Distance from mounting hole	14.5±0.8mm
	Distance from stand-off	17.9±0.9mm

Solder terminal

CAD Data

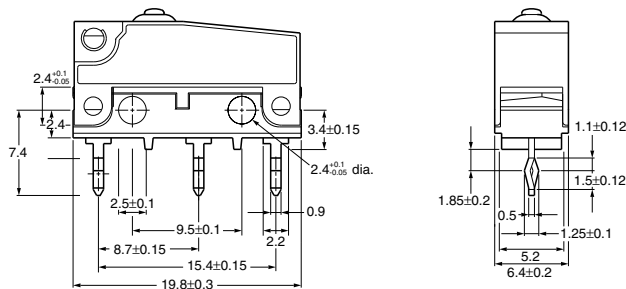


Note: Dimensions of the actuator types are the same as those of corresponding .110 quick-connect terminal types.

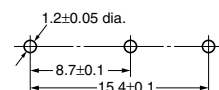
PC board terminal

Straight type

CAD Data



PC board pattern

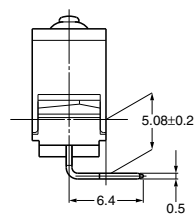
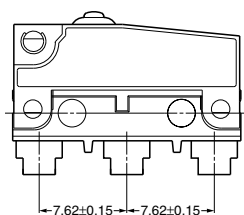


Note: Dimensions of the actuator types are the same as those of corresponding .110 quick-connect terminal types.

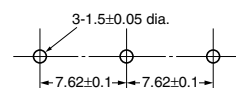
ABS (BS) Turquoise Switches

■ PC board right angle terminal

CAD Data



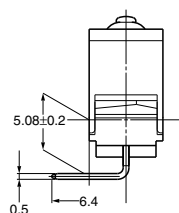
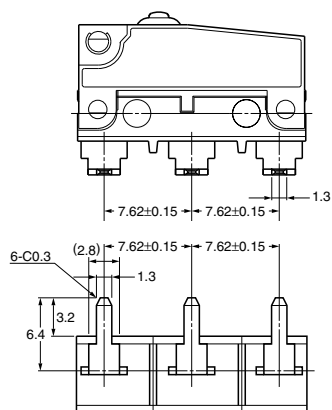
PC board pattern



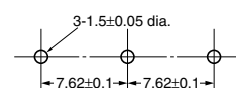
Note: Dimensions of the actuator types are the same as those of corresponding .110 quick-connect terminal types.

■ PC board left angle terminal

CAD Data



PC board pattern



Note: Dimensions of the actuator types are the same as those of corresponding .110 quick-connect terminal types.

■ Wire leads

Wire leads straight type

CAD Data



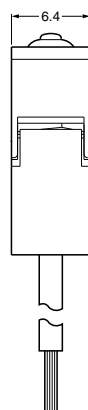
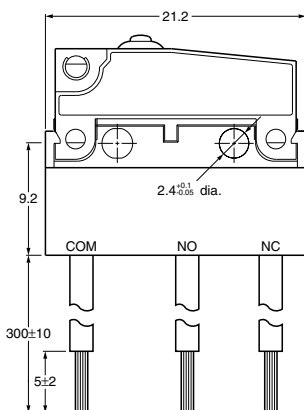
SPDT



SPST-NC



SPST-NO



Thickness of the lead wire: 0.5 mm² (Note 2)

Color of the lead wire:

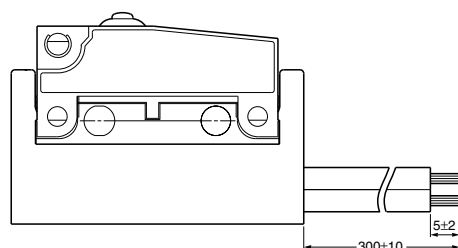
COM...Black

NCRed

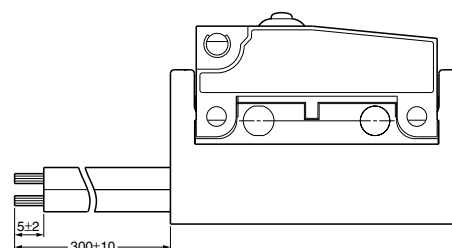
NOWhite

- Notes: 1. Other dimensions are the same as those of .110 quick-connect terminal types.
 Dimensions of the actuator types are the same as those of corresponding .110 quick-connect terminal types.
 2. With UL and CSA approved products, lead wire is changed to UL compliant (AWG20).

Wire leads right angle type



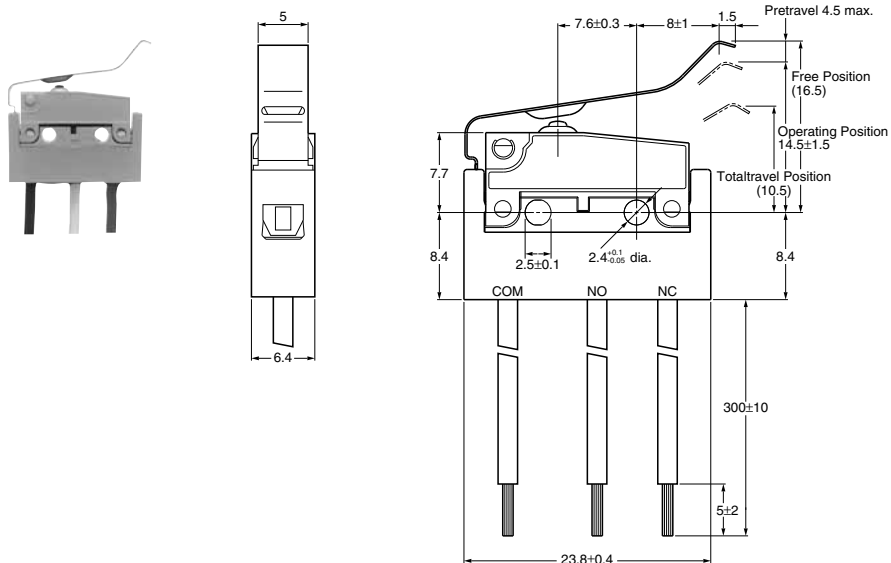
Wire leads left angle type



■ Wire leads leaf lever type

Wire leads straight type

CAD Data



Thickness of the lead wire: 0.5 mm² (Note)

Color of the lead wire:

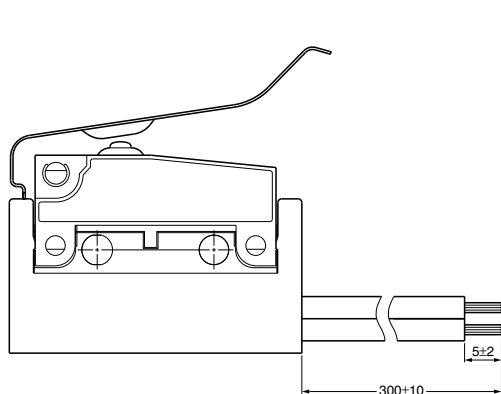
COM... Black

NC Red

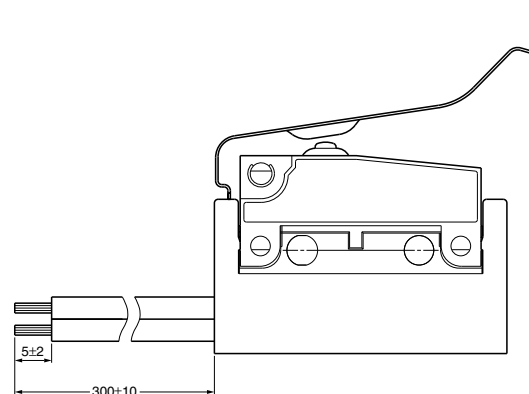
NO White

Note: With UL and CSA approved products, lead wire is changed to UL compliant (AWG20).

Wire leads right angle type



Wire leads left angle type



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[ABS141651](#)