



Panasonic
ideas for life

**ULTRA-MINIATURE
SWITCHES
WITH HIGH PRECISION**

**AH1 (FJ)
SWITCHES**



RoHS compliant

FEATURES

- Integrally molded terminal block—prevents soldering flux from entering into housing
- Compact size —minimizes size of equipment
- Flat terminal shape—makes soldering easy
- Low-level circuit type available
- Self-standing PC board terminal type available

TYPICAL APPLICATIONS

- Computer mouse
- Charger unit for mobile phone
- Detection of key position for automobiles

ORDERING INFORMATION

Ex. AH 1 4 8 0 61 9

Product Name	Terminal	Operating force by pin plunger (max.)	Actuator	Contact	Agency standard
FJ	4: 2.0 mm Self-standing PC board terminal with stand off 5: Straight PC board terminal with stand off 6: 2.0 mm solder terminal with stand off 7: 2.0 mm PC board right angle terminal 8: 2.0 mm PC board left angle terminal	6: 1.47 N with stand off 8: 0.74 N with stand off	0: Pin plunger 2: Hinge lever 4: Simulated roller lever	Nil: AgNi alloy 61: AgNi alloy + Gold-clad	9: UL/CSA

Remark: 2.0 mm PC board terminal straight type is available. For details, please consult us.

PRODUCT TYPES

The color of:

Type	Color		
	Body	Cap	Plunger
Standard	Black	Black	White
Low-level circuit	Black	Black	Red

1. Self-standing PC board terminal

Actuators	Operating force, Max.	Standard (AgNi alloy contact)	Low-level circuit (AgNi alloy + Gold-clad contact)
		SPDT	SPDT
Pin plunger	0.74 N	AH14809	AH1480619
	1.47 N	AH14609	AH1460619
Hinge lever	0.25 N	AH14829	AH1482619
	0.49 N	AH14629	AH1462619
Simulated roller lever	0.26 N	AH14849	AH1484619
	0.54 N	AH14649	AH1464619

AH1

2. Solder terminal

Actuators	Operating force, Max.	Standard (AgNi alloy contact)	Low-level circuit (AgNi alloy + Gold-clad contact)
		SPDT	SPDT
Pin plunger	0.74 N	AH16809	AH1680619
	1.47 N	AH16609	AH1660619
Hinge lever	0.25 N	AH16829	AH1682619
	0.49 N	AH16629	AH1662619
Simulated roller lever	0.26 N	AH16849	AH1684619
	0.54 N	AH16649	AH1664619

3. Straight PC board terminal

Actuators	Operating force, Max.	Standard (AgNi alloy contact)	Low-level circuit (AgNi alloy + Gold-clad contact)
		SPDT	SPDT
Pin plunger	0.74 N	AH15809	AH1580619
Pin plunger	1.47 N	AH15609	AH1560619
Hinge lever	0.25 N	AH15829	AH1582619
Hinge lever	0.49 N	AH15629	AH1562619
Simulated roller lever	0.26 N	AH15849	AH1584619
Simulated roller lever	0.54 N	AH15649	AH1564619

4. PC board terminal right angle

Actuators	Operating force, Max.	Standard (AgNi alloy contact)	Low-level circuit (AgNi alloy + Gold-clad contact)
		SPDT	SPDT
Pin plunger	0.74 N	AH17809	AH1780619
Pin plunger	1.47 N	AH17609	AH1760619
Hinge lever	0.25 N	AH17829	AH1782619
Hinge lever	0.49 N	AH17629	AH1762619
Simulated roller lever	0.26 N	AH17849	AH1784619
Simulated roller lever	0.54 N	AH17649	AH1764619

5. PC board terminal left angle

Actuators	Operating force, Max.	Standard (AgNi alloy contact)	Low-level circuit (AgNi alloy + Gold-clad contact)
		SPDT	SPDT
Pin plunger	0.74 N	AH18809	AH1880619
	1.47 N	AH18609	AH1860619
Hinge lever	0.25 N	AH18829	AH1882619
	0.49 N	AH18629	AH1862619
Simulated roller lever	0.26 N	AH18849	AH1884619
	0.54 N	AH18649	AH1864619

Remarks: 1. The appearance of right and left angle types are as below.

Right angle



Left angle



2. Standard packing: 50 pcs./tube.

3. Please consult us for the delivery schedule of PC board terminal SPST-NO type.

APPLICABLE CURRENT RANGE

Contact	Applicable current range				Max. operating force for operation (at pin plunger)	
	1 mA	0.1 A	1 A	3 A	0.74 N	1.47 N
Standard type (AgNi alloy)			●		●	
			●			●
Low level circuit type (AgNi alloy + Gold-clad)	●				●	
	●					●

SPECIFICATIONS

1. Contact rating (resistive load)

		Standard rating	Minimum rating
Standard type	O.F. 0.74N	1A 125V AC, 1A 30V DC	—
	O.F. 1.47N	3A 125V AC, 2A 30V DC	—
Low-level circuit type		0.1A 125V AC, 0.1A 30V DC	5mA 6V DC, 2mA 12V DC, 1mA 24V DC

2. Characteristics

Contact arrangement	Standard type	Low-level circuit type
Expected life (Min. operations) Electrical (at rated load, 20 cpm) (O.T.: Max.)	3×10^4	10^5
Expected life (Min. operations) Mechanical (at 60 cpm) (O.T.: Specified value)	O.F. 0.74 N: 10^6 O.F. 1.47 N: 5×10^5	
Dielectric strength (initial) Between terminals Between terminals and other exposed parts Between terminals and ground	600 Vrms for 1 min. 1,500 Vrms for 1 min. 1,500 Vrms for 1 min.	
Insulation resistance (Min. at 500V DC)	100 M Ω	
Initial contact resistance	Max. 30 m Ω (by voltage drop, 1A 6 to 8V DC)	Max. 100 m Ω (by voltage drop, 0.1A 6 to 8V DC)
Allowable operating speed (No load)	1 to 500 mm/sec.	
Max. operating cycle rate (No load)	120 cpm	
Ambient temperature	-25 to +85°C (Not freezing below 0°C)	
Shock resistance (Pin plunger type)	Min. 294 m/s ² (Contact opening: Max. 1 msec.)	
Vibration resistance (Pin plunger type)	10 to 55 Hz at single amplitude of 0.75mm (Contact opening: Max. 1 msec.)	

3. Operating characteristics

1) Pin plunger

3th digit of Part No.	Operating force, Max.	Release force, Min.	Pretravel, Max. mm	Movement differential, Max. mm	Overtravel, Min. mm	Operating position mm
6	0.47 N	0.20 N	0.5	0.12	0.25	7 \pm 0.3 (Distance from stand off) 5.5 \pm 0.2 (Distance from mounting hole)
8	0.74 N	0.098 N				7 \pm 0.3 (Distance from stand off) 5.5 \pm 0.2 (Distance from mounting hole)

2) Hinge lever

3th digit of Part No.	Operating force, Max.	Release force, Min.	Pretravel, Max. mm	Movement differential, Max. mm	Overtravel, Min. mm	Operating position mm
6	0.49 N	0.049 N	2.1	0.5	0.55	8.3 \pm 1.2 (Distance from stand off) 6.8 \pm 1.0 (Distance from mounting hole)
8	0.25 N	0.025 N				8.3 \pm 1.2 (Distance from stand off) 6.8 \pm 1.0 (Distance from mounting hole)

3) Simulated roller lever

3th digit of Part No.	Operating force, Max.	Release force, Min.	Pretravel, Max. mm	Movement differential, Max. mm	Overtravel, Min. mm	Operating position mm
6	0.54 N	0.039 N	2.1	0.5	0.5	11.0 \pm 1.2 (Distance from stand off) 9.5 \pm 1.0 (Distance from mounting hole)
8	0.26 N	0.020 N				11.0 \pm 1.2 (Distance from stand off) 9.5 \pm 1.0 (Distance from mounting hole)



Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



Как с нами связаться

Телефон: 8 (812) 309 58 32 (многоканальный)

Факс: 8 (812) 320-02-42

Электронная почта: org@eplast1.ru

Адрес: 198099, г. Санкт-Петербург, ул. Калинина, дом 2, корпус 4, литера А.