A6ER
Piano DIP Switch

DIP Switch with a variety of assortment of Poles and Actuators in Piano Types

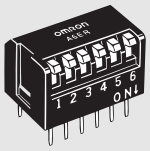
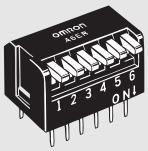


- The sealed bottom prevents flux penetration.
- Gold-plated contacts and terminals ensure high reliability.

RoHS Compliant

List of Models

● Models in Tube Packages

Type (actuator color)		Piano actuator (short) (Orange)	Piano actuator (long) (Orange)
			
No. of poles	Quantity per tube		
2	70	A6ER-2101	A6ER-2104
3	50	A6ER-3101	A6ER-3104
4	39	A6ER-4101	A6ER-4104
5	32	A6ER-5101	A6ER-5104
6	27	A6ER-6101	A6ER-6104
7	24	A6ER-7101	A6ER-7104
8	21	A6ER-8101	A6ER-8104
9	19	A6ER-9101	A6ER-9104
10	17	A6ER-0101	A6ER-0104

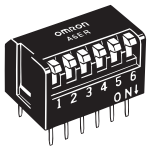
Note: Order in multiples of the package quantity.

Ratings / Characteristics

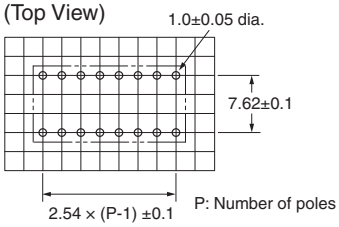
Rating (resistive load)		25 mA at 24 VDC 10 μA (minimum current) at 3.5 VDC
Ambient operating temperature		–20 to +70°C at 60% max. (with no icing or condensation)
Ambient operating humidity		35% to 95% (at +5 to +35°C)
Insulation resistance		100 MΩ min. (at 250 VDC with insulation tester)
Contact resistance (initial value)		200 mΩ max.
Dielectric strength	**Between terminals**	500 VAC for 1 min
Vibration resistance	**Malfunction**	10 to 55 Hz, 1.5-mm double amplitude
Shock resistance	**Malfunction**	300 m/s² min.
Durability	**Electrical**	1,000 operations min.
Washing		Not possible
Degree of protection		IEC IP40
Operating force		0.29 to 9.8 N {30 to 1,000 gf}
Weight		1.01 g (2 poles), 1.51 g (4 poles), 2.00 g (6 poles), 2.51 g (8 poles), 3.02 g (10 poles)

Dimensions (Unit: mm)

● **Piano Actuator (Short) A6ER-□101**

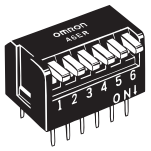


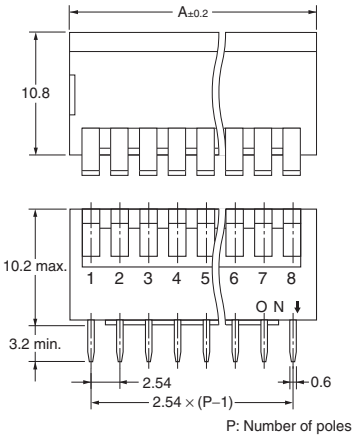
PCB Dimensions (Top View)



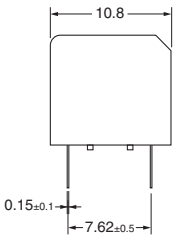
No. of poles	Model		Dimension A
	Piano (short)	Piano (long)	
2	A6ER-2101	A6ER-2104	6.64
3	A6ER-3101	A6ER-3104	9.18
4	A6ER-4101	A6ER-4104	11.72
5	A6ER-5101	A6ER-5104	14.26
6	A6ER-6101	A6ER-6104	16.80
7	A6ER-7101	A6ER-7104	19.34
8	A6ER-8101	A6ER-8104	21.88
9	A6ER-9101	A6ER-9104	24.42
10	A6ER-0101	A6ER-0104	26.96

● **Piano Actuator (Long) A6ER-□104**

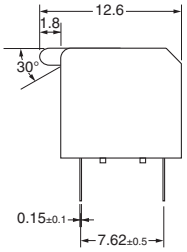




Piano Actuator (short)



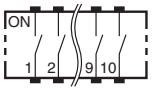
Piano Actuator (long)



Note: Unless otherwise specified, a tolerance of ±0.4 mm applies to all dimensions.

Internal Connections

Contact Form (Top View)



Safety Precautions

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

- Application examples provided in this document are for reference only. In actual applications, confirm equipment functions and safety before using the product.
- Consult your OMRON representative before using the product under conditions which are not described in the manual or applying the product to nuclear control systems, railroad systems, aviation systems, vehicles, combustion systems, medical equipment, amusement machines, safety equipment, and other systems or equipment that may have a serious influence on lives and property if used improperly. Make sure that the ratings and performance characteristics of the product provide a margin of safety for the system or equipment, and be sure to provide the system or equipment with double safety mechanisms.

Note: Do not use this document to operate the Unit.

OMRON Corporation
Electronic and Mechanical Components Company **Contact: www.omron.com/ecb**

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