

## SWITCH DATA

### PRECAUTIONS

- \* Prevent the switch from coming into contact with oil and chemicals.
- \* Do not use in locations where silicon-based adhesives, oil or grease are present.
- \* Even when the switch is used within the appropriate operating range, power surges may shorten it's service life. Insert a contact protection circuit as required.

### ■ Characteristics

Item	Specifications
Operating speed	1 mm to 500 mm/s (for pin plunger models)
Operating frequency	30 operations/min
Insulation resistance	100 mΩ min. (at 500 VDC)
Contact resistance (initial value)	100 mΩ max. (lead wire models: 150 mΩ max.)
Dielectric strength	600 VAC, 50/60 Hz for 1 min between terminals of the same polarity 1,500 VAC, 50/60 Hz for 1 min between current-carrying metal parts and ground, and between each terminal and non-current-carrying metal parts
Vibration resistance	Malfunction: 10 to 55 Hz, 1.5-mm double amplitude
Shock resistance	Malfunction: 300 m/s <sup>2</sup> max.
Life expectancy	Mechanical: 1,000,000 operations min. (30 operations/min) Electrical: 100,000 operations min. (20 operations/min)
Degree of protection	IP67
Degree of protection against electric shock	Class I
Proof tracking index (PTI)	175
Switch category	A (IEC 335)
Ambient operating temperature	-40 to 85°C (with no icing)
Ambient operating humidity	95% max. (in temperature range 5 to 35°C)
Weight	Approx. 0.7 g

ISSUE 5 (MARCH 2006)