



S01A - S03

Hall effect IC · Bushingmount · RoHS Compliant

CALDARO



Model S01A



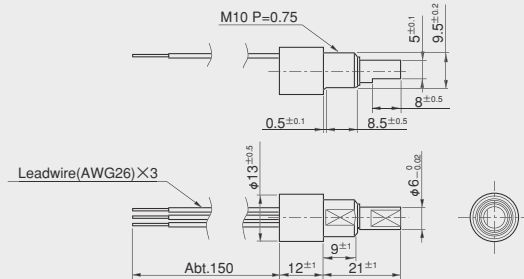
Model S03A
Lug terminal type



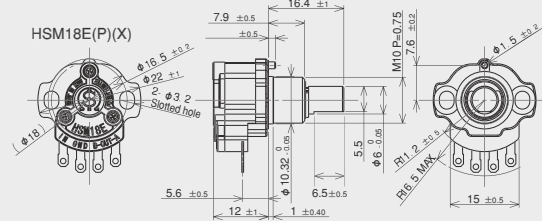
Model S03B
Leadwire type

● Standard Dimensions

Model S01A



Model S03



- Note: 1) The drawings show the position of shaft flatted at the ratio value of 50%.
 2) 1pc.each of inner teeth washer and hex nut are attached.(2pcs.each attached in case of HS01A)
 3) Please duly note that inner construction may burn out when applying the voltage to the wrong terminals except input terminal.

● Standard Model Numbers

S01A (Bushingmount type)
 S03 · EL (Combined type with bushingmount and flange-mount)

● General Specifications

Model No.	S01A	S03
Current Consumption	Approx. 7mA	Single output : Approx.7mA Dual output : Approx.14mA
Independent Linearity Tolerance	±1.5%FS(FS=90°)	
Mechanical Rotating Angle	360° (Endless)	
Effective Electrical Angle	±45° (Endless)	
Applied Voltage	5V±10%D.C.	
Load Resistance	Over 10KΩmin.	
Effective Output	Approx. 10%~Approx. 90%Vin · FS(FS=90°)	
Output Temperature Characteristic	Within ±2.5%Vout/FS	
Drift at Center Position	Within ±0.5%Vout/FS	
Operating Temperature Range	-40°C~+105°C	
Storage Temperature Range	-50°C~+105°C	
Mass	Approx. 15g	
Rotating Torque	Within 2mN · m (Within 20gf · cm)	

● Environmental Specifications

Model No.	S01A	S03
Thermal Shock	5 cycles -50°C~+105°C	
Exposure at Low Temperature	24 hours at -50°C	
Exposure at High Temperature	1,000 hours at +105°C	
Vibration	10 to 2,000Hz 196m/s ²	
Shock	980m/s ² 6ms	
Rotational Life Expectancy	Approx. 50,000,000 shaft revolutions	
EMS Durability	50V/m(80MHz~1GHz) 80% Amplitude Modulation	100V/m(same as on the left)
ESD Durability	±4kV contact discharge ±4kV aerial discharge (Based on IEC 61000-4-2)	±8kV contact discharge ±15kV aerial discharge (Based on IEC 61000-4-2)

(Note) Rotational Life Expectancy may differ from the specifications depending on status of use.

● Special Specifications Available

(In case of the potentiometer with special specifications, the general specifications and environmental specifications may change. Please consult us in advance.)

- Special effective electrical angle (Possible to meet with from ±10° to ±45° by 5° step, as requested)
- Special machining on the shaft
- Special output (HSM18E & EL are only available - Cross, Parallel)