

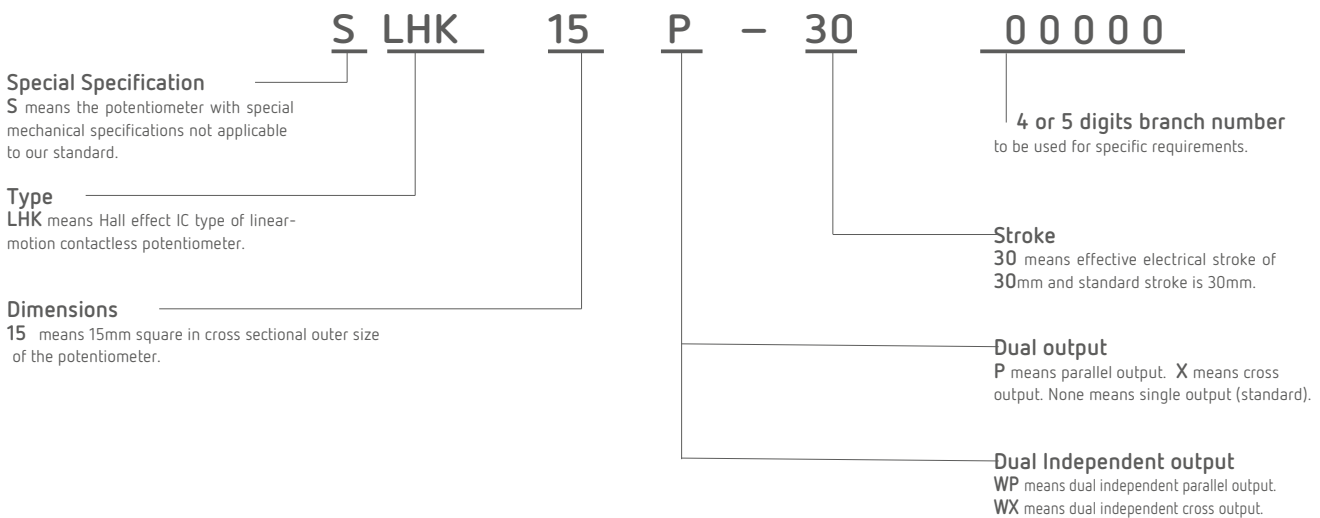


mm LHK 15-30

This is a linear-motion Contactless Potentiometer which is based on our own technical know-how through development of inductance type linear-motion Contactless Potentiometer and Hall effect IC type 1-turn Potentiometer. It offers 30mm stroke with contactless type and Index of Protection IP65.

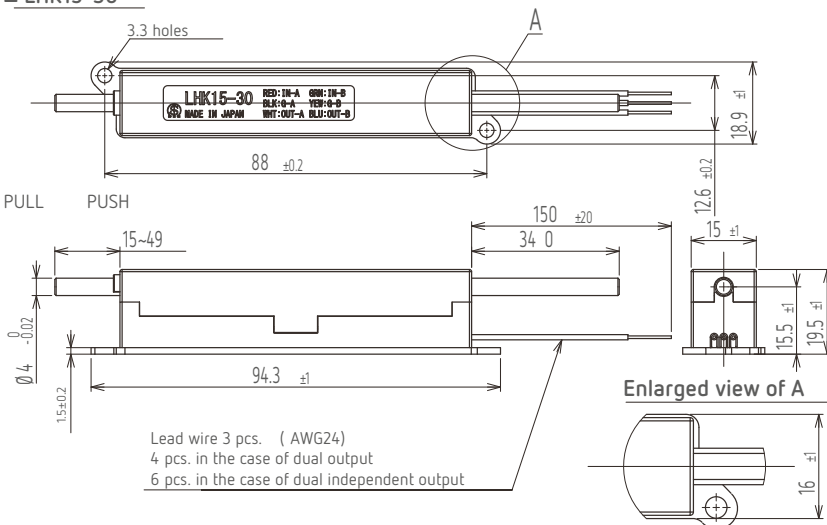
It is best suitable at any applications to detect the position of linear-motion displacement.

THE NOMENCLATURE OF LINEAR-MOTION CONTACTLESS POTENTIOMETER



Standard dimensions

LHK15-30



RoHS compliant

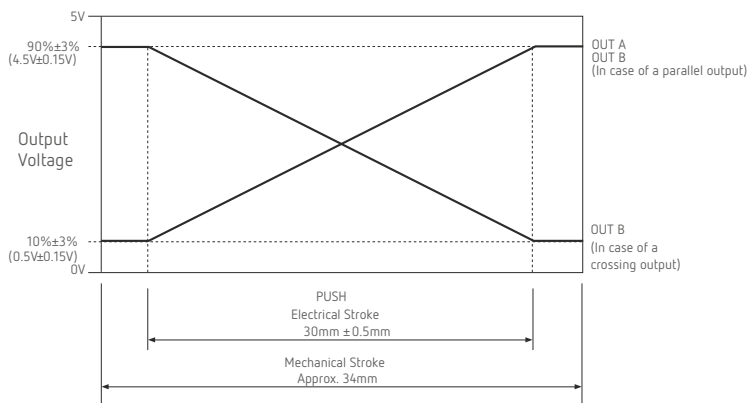


General specifications

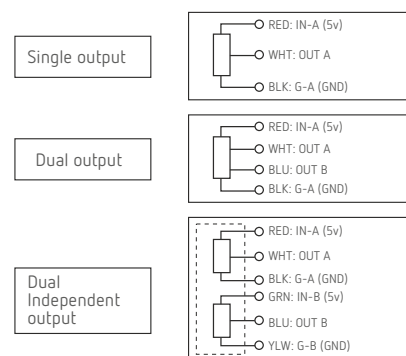
Current Consumption:	Single output: Max. within 15mA Dual output / Dual Independent output: Max. within 30mA	Thermal Shock:	-40°C ~ +105°C 5 cycles
Independent Linearity Tolerance:	±0.5% FS	Exposure at Low Temperature:	24 hours at -40°C
Mechanical Stroke (MS):	Approx. 34mm	Exposure at High Temperature:	1,000 hours at +105°C
Electrical Stroke:	30mm±5mm	Vibration:	10 to 2,000Hz 196m/s ² 12 hours
Applied Voltage:	D.C.5V ±10%	Shock:	980m/s ² 6ms (18 times)
Load Resistance:	10KΩ min.	Life Expectancy:	Approx. 50,000,000 reciprocating motions
Effective Output:	10%±3% ~ 90%±3%Vin	EMS Durability:	100V/m (80MHz ~ 1GHz 1kHz 80% Amplitude Modulation)
Output Temperature Characteristics:	Within ±0.8% Vout · FS	ESD Durability:	±8kV contact discharge / ±15kV aerial discharge
Operating Temperature Range:	-40°C ~ +105°C		
Storage Temperature Range:	-40°C ~ +105°C		
Friction:	Within 0.6N(60gf)		
Stopper Strength:	Approx.20N (2kgf)		
Mass:	Approx.44g		

Note: Life Expectancy may differ from the specifications depending on status of use.

Output characteristics



Terminal Connection Diagram



Special specifications available

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

With spring return device [Spring return device is mounted on the outer shaft and the shaft length is changed. Also, the expected longevity would be around 10,000,000 reciprocating motions], Special machining on the shaft, Special output(Cross, parallel, Dual independent output), PWM output, Low current consumption in slow mode.