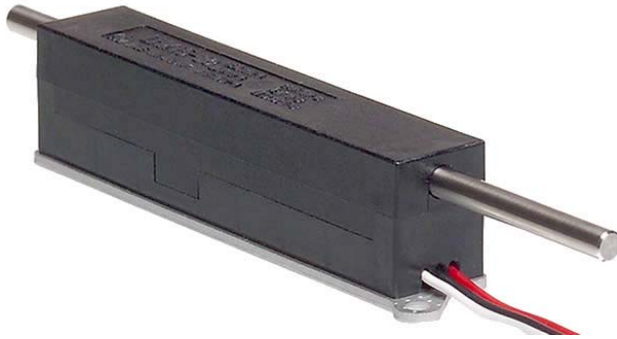



**Linear Motion Hall Effect (Contactless) Potentiometer**

**Series LMH15-30**



- 30mm Stroke Length
- Wear Free
- Redundant Output Option
- Shaft Spring Return Option
- Infinite Resolution
-  RoHS

**Electrical Data (Note 1)**

Electrical Stroke	30±0.5mm
Operating Voltage	5VDC ±10%
Effective Output	10% ±3% ~ 90% ±3% VIN
Independent Linearity Tolerance	±0.5% FS
Current Consumption	≤ 15mA (≤ 30mA dual output)
Resolution	Essentially infinite
Load Resistance	10k Ω min.
Output Temperature Characteristics	< ±0.8% Vout • FS

**Mechanical & Environmental Data (Note 1)**

Mechanical Stroke	Approx. 34 mm
Life Expectancy	> 50 mio. reciprocating motions (> 10 mio. with spring)
Friction (without spring)	< 0.6N (60gf)
Stopper Strength	Approx. 20N (2kgf)
Operating Temperature	-40°C to +105°C
Thermal Shock	-40°C to +105°C 5 cycles
Exposure at Low Temperature	24 hours at -40°C
Exposure at High Temperature	1,000 hours at +105°C
Vibration	20G 10 to 2,000 Hz 12 hours
Shock	50G 6ms 18 times
EMS Durability	100V/m (80Mhz~1GHz 1khz 80% amplitude modulation)
EMD Durability	±8kV contact discharge / ±15kV aerial discharge
Protection Grade	IP65
Mass	44g

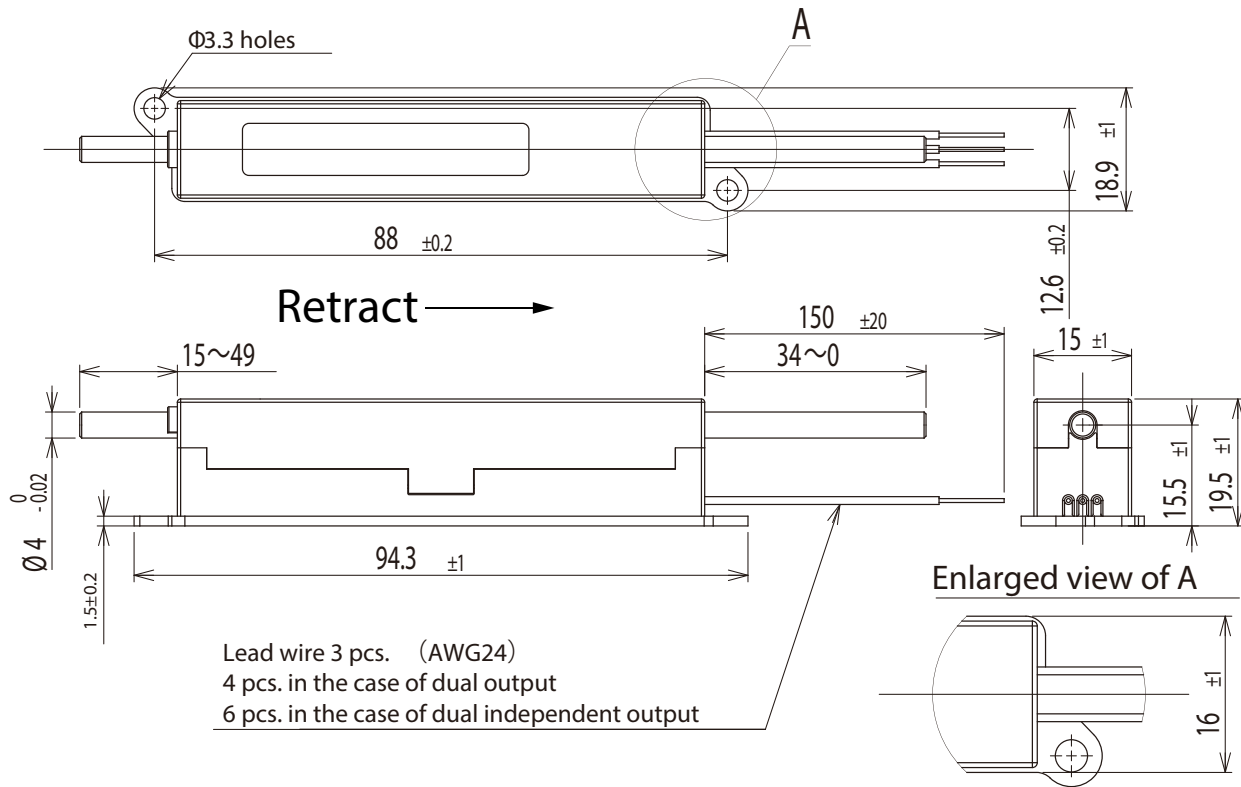
• **Special Specifications Available**

Spring return (spring mounted externally on shaft and shaft length increases and friction increases), dual parallel or cross output, dual independent output, PWM output

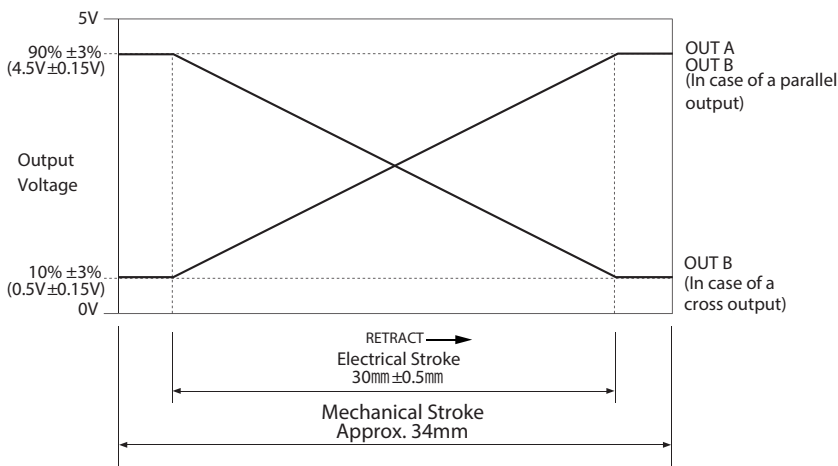
Note 1: Customers should test and verify device performance in any given application. General specifications values are measured at temperatures of +15°C ~ +35°C. Specifications are subject to change without notice.

**Dimensions (mm)**

**Series LMH15-30**



• **Output Characteristics**



• **Terminal Connection Diagram**

