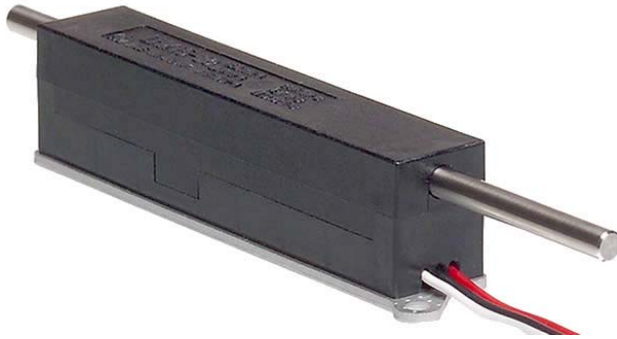



# LMH15 / LMHR15 Series

## Linear Motion Potentiometer (Hall Effect)



- 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

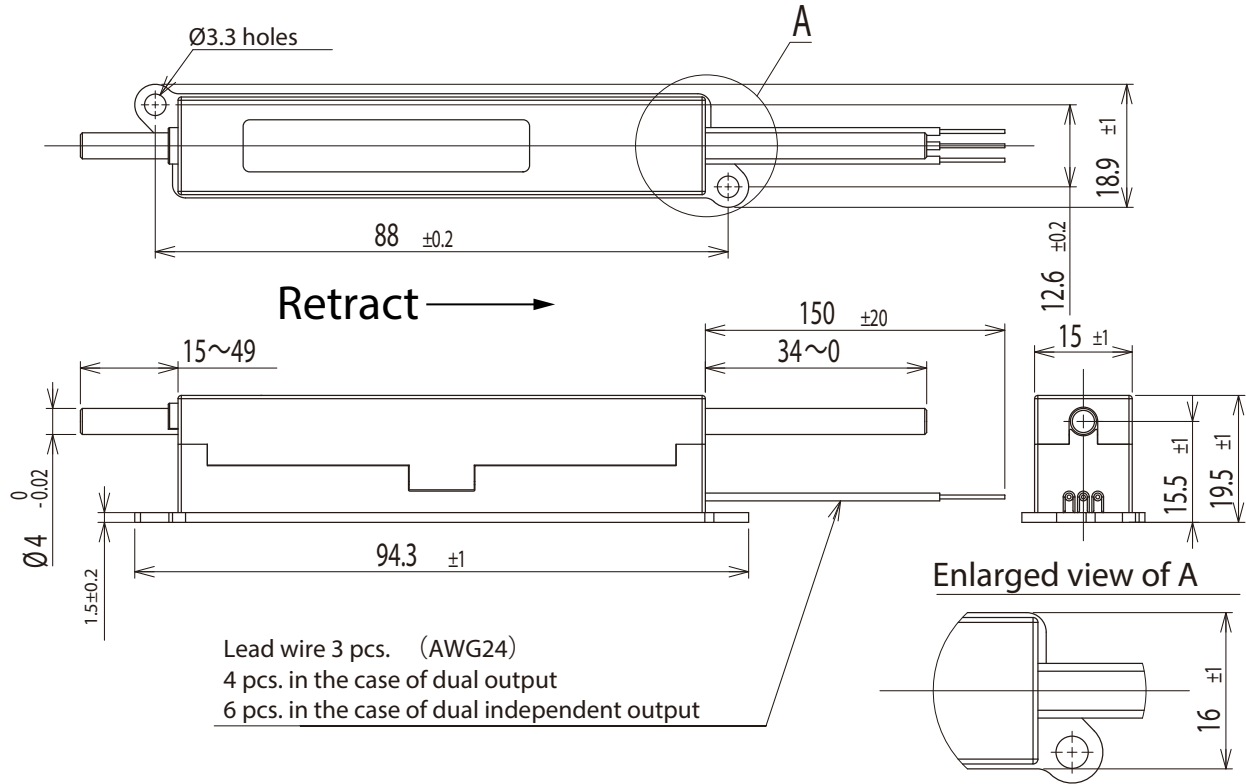
Spring return (spring mounted externally on shaft and shaft length increases and friction increases), dual parallel or cross output, dual independent output, PWM output

Customers should test and verify device performance in any given application. Specifications are subject to change without notice.

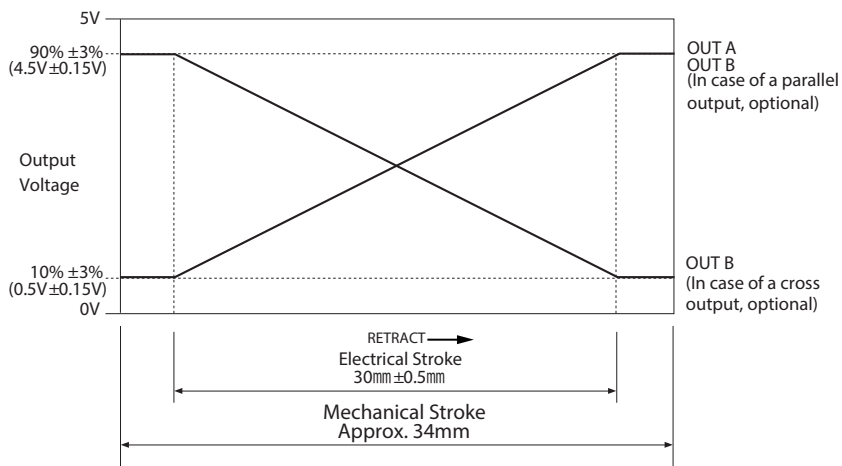
# LMH15 / LMHR15 Series

## Linear Motion Potentiometer (Hall Effect)

### Dimensions (mm)



### • Output Characteristics



### • Terminal Connection Diagram

