

Potentiometer

General Information

SKU: P022-R10K

Description: A potentiometer with an adjustable impedance from 0 to 10kΩ that mounts in a 22mm hole similar to other operator control devices light pilot lights or pushbuttons.

Application: Typically used in HVAC applications to provide a manual setpoint for a motor with adjustable speed, either EC motor or VSD controlled.



Specifications

Technical Characteristic	Value
Nominal Resistance (R)	10kΩ
Resistance Tolerance	±5%
Total Mechanical Travel	260°±5°
Mounting Hole Diameter	22mm
Ingress Protection	IP65
Terminal Resistance	≤±1%R or 2Ω
Contact Resistance Variation	≤±1%R or 3Ω
Insulation Resistance	≥1GΩ (100VAC)
Withstand Voltage	500V @ 101.3kPa, 350V @ 8.5kPa
Rated Power	0.5W (250V max)
Temperature Range	-55°C - +125°C
Temperature Coefficient	±250, ±100ppm/°C
Collision (390m/s ² , 4000 times)	ΔR≤±1%R
Vibration (10-500Hz, 0,75mm 6h)	ΔR≤±1%R, ΔUab/Uac ≤±2%R, Electrical Break ≤100μs
Temperature Variation (-55°C/30min, +125°C/30min, 5 cycles)	ΔR≤±2%R, ΔUab/Uac ≤±2%R
Climate Category (IEC68-2-2)	ΔR≤±(5%R+0.1Ω), Insulation Resistance ≥100MΩ
Electrical Endurance (0.5W, 100h)	ΔR≤±(5%R+0.1Ω), CRV ≤±3%R or 5Ω
Mechanical Endurance	ΔR≤±(10%R+0.5Ω), CRV ≤±3%R or 5Ω
Steady Damp Heat (IEC68-2-3, 96h)	ΔR≤±(5%R+0.1Ω), Insulation Resistance ≥100MΩ

Product Dimensions

