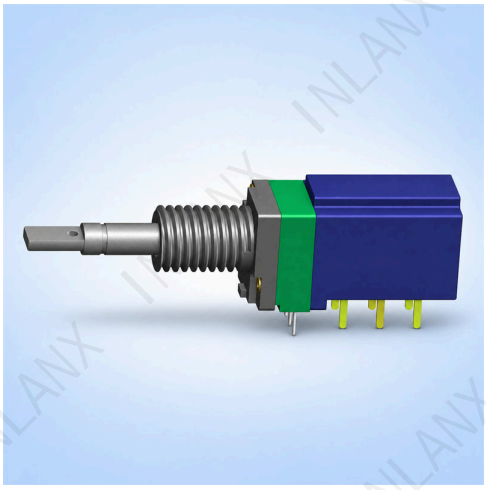
WD1001-ZK

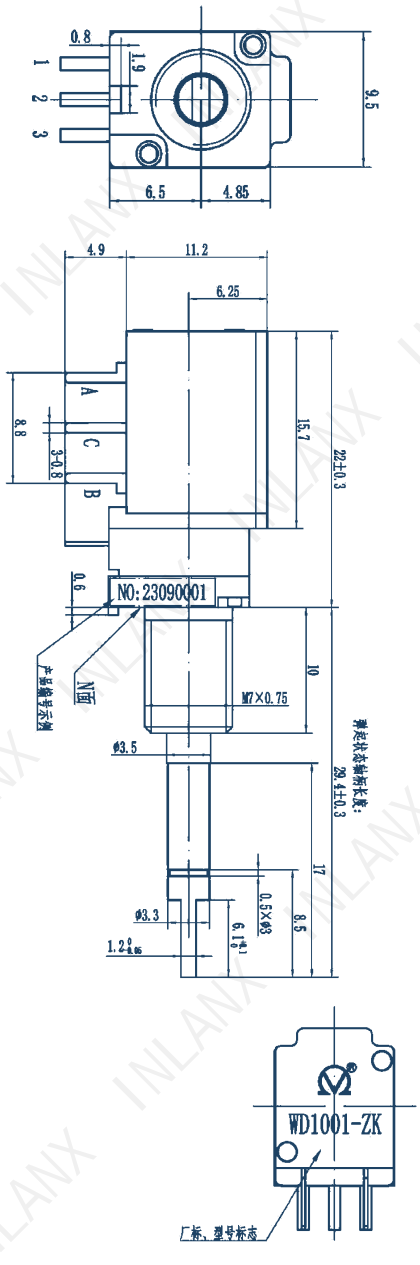
Axial Push-switch Potentiometer

Electrical Characteristics

Parameter	Specification
Nominal resistance	10 kΩ (special resistance values available)
Resistance tolerance	±20%
Effective electrical travel	260°±10°
Push-switch travel	(8±0.5) mm
Independent linearity	≤±2%
Output smoothness	≤0.2%
Insulation resistance	500 VDC, ≥500 MΩ
Dielectric withstand	500 VAC, 1 min; no damage, flashover or breakdown; leakage current ≤1 mA.
Potentiometer pin assignment	Pin 1: counterclockwise end; pin 2: output; pin 3: clockwise end.
Switch pin assignment	Two independent SPDT switches. Switch 1: pins A, B, C. Switch 2: pins A', B', C'.



Outline Dimensions • mm



Physical Characteristics

Parameter	Specification
Running torque	(20±5) mN·m
Mechanical travel	270°±10°

Environmental Characteristics

Parameter	Specification
Temperature range	-55℃ to +70℃

Applicable Standards

Quality mark	Detail specification	Generic specification
J	/	GJB 1865A-2015; GJB 734A-2002

Main Inspection Items

Item	Test Conditions and Requirements
Rotational life	≥15000 operations
Push-switch life	≥15000 operations

Ordering Information

WD1001-ZK - 10K±20% - 260 - O

Model / Nominal resistance and tolerance / Effective electrical travel / Mounting O (other mounting)

Drawing notes: N face; serial-number example; laser-etched marking; trademark and model marking.

WD14-ZK

Axial Push-switch Potentiometer



Electrical Characteristics

Parameter	Specification
Nominal resistance	10 kΩ
Resistance tolerance	±20%
Effective electrical travel	265°±5°
Insulation resistance	≥1 GΩ (500 VDC)
Dielectric withstand	750 VAC, 1 min

Physical Characteristics

Parameter	Specification
Starting torque	≤20 mN·m
Running torque	≤20 mN·m
Mechanical travel	275°±10°
Marking	Model, nominal resistance (and tolerance), unique product code, terminal identification

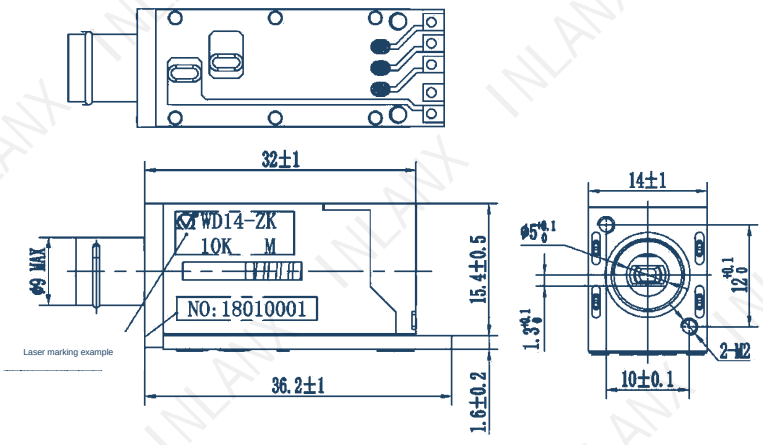
Environmental Characteristics

Parameter	Specification
Rated power	0.05 W
Temperature range	-55℃ to +70℃
Temperature coefficient of resistance	≤±1000 ppm/℃

Applicable Standards

Quality mark	Detail specification	Generic specification
J (QB available)	Q/RU 482-2015	GJB 1865A-2015

Outline Dimensions • mm



WD14-ZK

Axial Push-switch Potentiometer

Main Inspection Items

Item	Test Conditions and Requirements
Damp heat, steady state	GJB 150.9A-2009; ΔR≤±10%R; insulation resistance ≥10 MΩ (500 VDC).
Thermal shock	-55℃ to +70℃, 3 cycles; ΔR≤±20%R; switch operates normally for 5 push-and-release cycles.
Vibration	X, Y and Z mutually perpendicular axes, 1 h per axis; no momentary electrical discontinuity longer than 0.1 ms or mechanical damage; ΔR≤±5%R; 5 normal push-and-release cycles.
High-temperature operation	55℃±2℃, 2 h (22 VDC, 70℃±2℃, 0.5 h); ΔR≤±10%R; running torque ≤30 mN·m; no electrical or mechanical damage; 5 normal push-and-release cycles.
High-temperature storage	70℃±2℃, 48 h; ΔR≤±10%R; no electrical or mechanical damage; 5 normal push-and-release cycles.
Low-temperature operation	-55℃±2℃, 4 h±0.25 h (24 VDC, 1 h); ΔR≤±10%R; running torque ≤30 mN·m; no electrical or mechanical damage; 5 normal push-and-release cycles.
Low-temperature storage	-65℃±2℃, 48 h; ΔR≤±10%R; no electrical or mechanical damage; 5 normal push-and-release cycles.
Rotational load life	25000 operations; ΔR≤±20%R.
Switch mechanical life	25000 operations; normal push-and-release operation, no electrical or mechanical damage.
Acceleration	Front 3 g, rear -6 g, up 9 g, down -1.5 g, right 4 g, left -4 g; 60 s in each direction; no mechanical damage; ΔR≤±5%R; 5 normal push-and-release cycles.

Ordering Information

WD14-ZK - 10K±20% - 270 - F

Model / Nominal resistance and tolerance / Effective electrical travel / Mounting F (flange mounting)

The electrical table specifies effective travel of 265°±5°; the complete source ordering example uses travel code 270.