

LWE Series

Linear Potentiometer



Feature:

- Better resolution than 0.01mm
- Linear excellence up to 0.05% F.S.
- Ball ring bearing design at both ends, bearing support
- Strong temperature stability,
- Easy to install, suitable for heavy load industrial grade use.

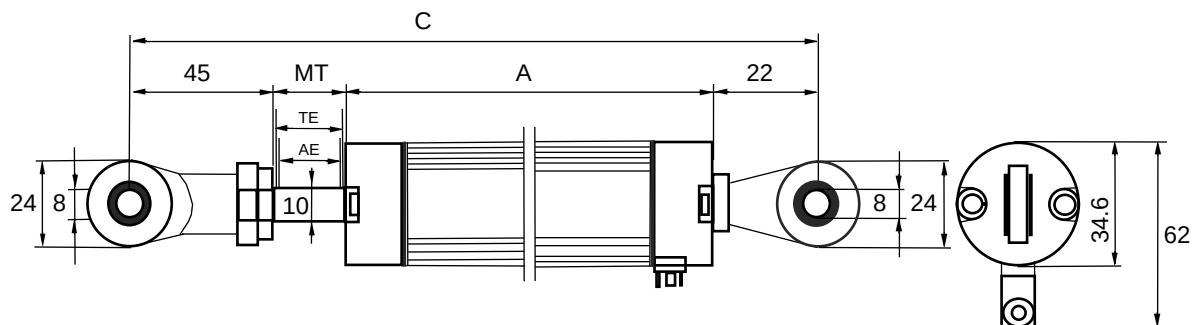
Details:

- Aluminum alloy outer shell, surface bright wire drawing treatment
- stainless steel pull rod, rotatable external thread
- shaft bearing flexible buffer bearing
- High precision conductive plastics for resistance components
- Brush assembly A pair of multi-touch alloy brush,
- Electrical connection C193 4-pin square plug

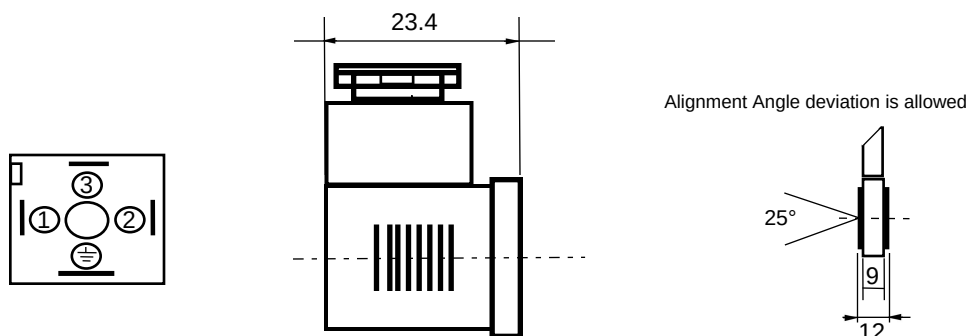
Usage:

- Machinery industry and automobile industry
- Experimental equipment, actuator, cylinder matching
- Sluice control, robotics, hydraulic machinery, etc

Dimensions:



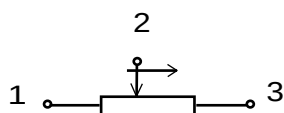
Connector:



Parameters

Parameter	unit	details
Range	mm	50 75 100 130 150 175 200 225 250 275 300 350 375 400 425 450 500 550 600 650 700 750 800
Electical range (TE)	mm	53 78 103 133 153 178 204 229 254 279 304 354 380 406 432 457 508 558 609 659 710 762 812
Effective range (AE)	mm	51 76 101 131 151 176 202 227 252 277 302 352 378 404 430 455 506 556 607 657 708 760 810
Mechanical range (MT)	mm	56 81 106 136 156 181 207 232 257 282 307 357 383 409 435 460 515 565 616 666 717 769 815
housing length (A)	mm	166 191 216 246 266 291 318 343 368 393 419 484 509 534 561 609 673 723 799 849 899 983 1054
total length (C)	mm	233 258 283 313 333 358 385 410 435 460 486 551 576 601 628 676 740 790 866 916 966 1050 1121
standard resistance	K Ω	5 10
resistance tolerance	$\pm$ %	20
linearity	$\pm$ %	0.05
repeatability	$\pm$ %	0.01 F.S
working current	μ A	<1
drive force	N	< 5
output signal		resistance、 5K / 10K
working temperature	$^{\circ}$ C	-30 - 100,
antivibration level	G	IEC68-2-6: 1982 10G
anti-shock level	G	IEC68-2-29: 1968 40G
working life	cycle	> 20 x 10 ⁶
protection level		IP 54 (DIN EN 60529)
Max woking voltage	V	resistance output: 42,
voltage input vs output		
temperature coefficient	ppm/k	30 in general
insulation resistance	M Ω	>100 (500VDC)
insulation strength	μ A	<100 (500VAC , 50Hz)

wirings:



terminal define:

terminal1 --- V+ (5/10)V DC

terminal2 --- signal output

terminal3 --- 0V,common ground

instructions:

