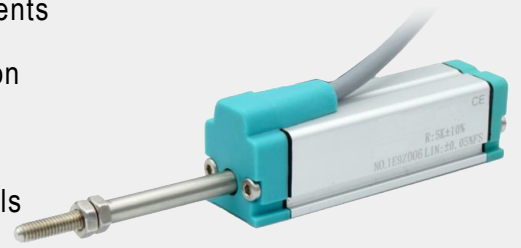


- The sensor is compact and ideal for small displacement measurements in a variety of small devices.
- The joint is designed with a margin and with M4 threaded connection for more flexible measurement.
- No electrical signal changes after the theoretical electrical stroke, the installation is simpler.
- Ideal for a wide range of small mechanical devices, valves, test tools and benches.



CHARACTERISTIC

- ◆ Small size.
- ◆ Excellent linearity.
- ◆ Higher resolution 0.01mm.
- ◆ High running speed.
- ◆ Protection level IP65.
- ◆ Configurable voltage and current (2-wire, 3-wire) module.

SPECIFICATION

Electrical Parameter

- ◆ R tolerance: $\pm 20\%$
- ◆ Repeatability precise: 0.01mm
- ◆ Cursor current : $\leq 1\mu A$
- ◆ Max cursor current: 10mA
- ◆ Power supply: 42V
- ◆ Coefficient Volts to Temp: 5ppm/K
- ◆ Insulation R: $\geq 10M\Omega$
(500Vdc, 1bar, 2s)
- ◆ Insulation strength: $\leq 100\mu A$
(50Hz, 1bar, 2s, 500Vdc)

Mechanical Parameter

- ◆ Shell Length(A): Stroke+43mm

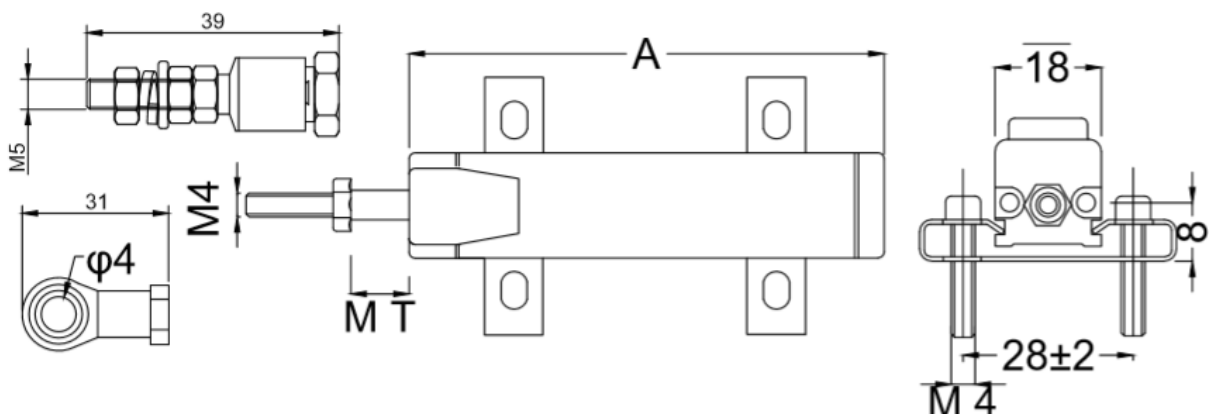
Operation force

- ◆ Ball head allows displacement: $\pm 5^\circ$
 $\pm 0.5mm$ parallel
- ◆ Vertical installation: $\leq 0.4N$
- ◆ Horizontal installation: $\leq 1.1N$

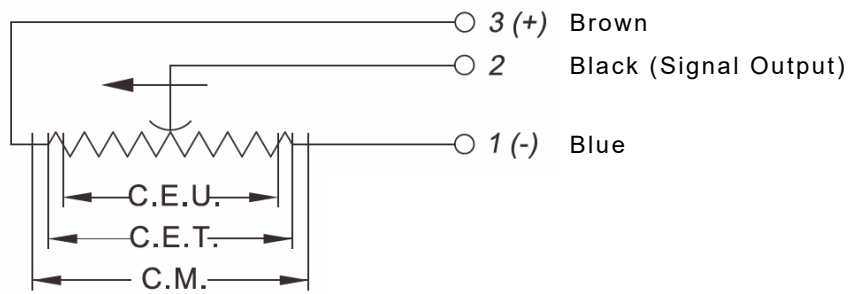
Environment Parameter

- ◆ Temperature range: $-40\sim 100^\circ C$
- ◆ Life time: $> 50 \times 10^6$
- ◆ Shock: 50g 6ms
- ◆ Working speed: 5m/s maximum
- ◆ Protection class: IP50

DIMENSION



WIRING CONNECTION



ORDER INFORMATION

CTM-

| Electrical Parameter | | | | | Mechanical Parameter |
|----------------------|---------------------|----------------------|-----------------|--------------------------|----------------------|
| Model | Nominal stroke (mm) | Electric stroke (mm) | Standard R (KΩ) | Independent Linearity(%) | Mechanical stroke(M) |
| 25 | 25 | 25.5 | 5 | 0.3 | 30.5 |
| 50 | 50 | 50.5 | 5 | 0.25 | 55.5 |
| 75 | 75 | 75.5 | 5 | 0.15 | 80.5 |
| 100 | 100 | 101 | 5 | 0.1 | 106 |
| 125 | 125 | 126 | 5 | 0.1 | 131 |
| 150 | 150 | 151 | 5 | 0.08 | 156 |
| 175 | 175 | 176.5 | 5 | 0.08 | 181.5 |
| 200 | 200 | 201.5 | 5 | 0.05 | 206.5 |
| 225 | 225 | 226 | 5 | 0.05 | 231.5 |
| 250 | 250 | 252 | 5 | 0.05 | 257 |
| 275 | 275 | 275 | 5 | 0.05 | 282 |
| 300 | 300 | 300 | 5 | 0.05 | 307 |

Shipping standard: brackets x2 / (M4) Screwsx4 /
Fish eye connector OR Universal joint x1