



BS-FL80x-M-D6EC is an inertial measurement unit (IMU) based on fiber-optic gyroscopes

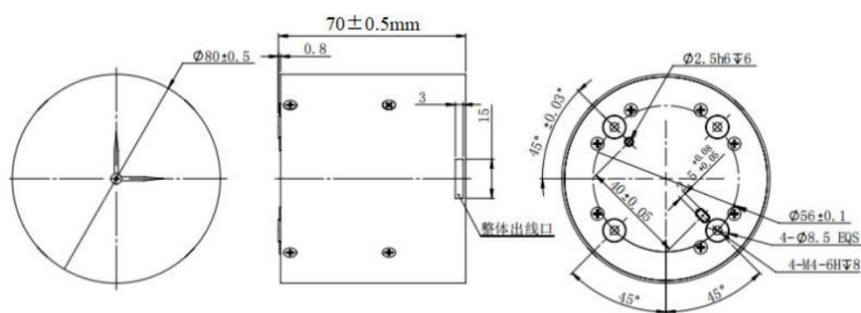
- Two models available
- Three fiber-optic gyroscopes and three quartz accelerometers
- Digital output

There are two models available:

- BS-FL80H-M-D6EC
- BS-FL80M-M-D6EC

| | Main indicator parameters | H-type | M-type |
|---|--|--|--------|
| | Main performance indicators of fiber optic gyroscope | Room temperature zero bias repeatability (sequential, daily) (°/h) | ≤0.3 |
| Zero bias stability at constant temperature (°/h) | | ≤0.3 | ≤0.5 |
| Repeatability of Room Temperature Scale Factor (ppm) | | ≤30 | ≤50 |
| Asymmetric scaling factor at constant temperature (ppm) | | ≤20 | ≤30 |
| Scale factor nonlinearity at constant temperature (ppm) | | ≤20 | ≤30 |
| Threshold (°/h) | | ≤0.5°/h | |
| Angular rate range (°/s) | -500~+500 °/s | | |
| Bandwidth (Hz) | 100 | | |
| Size (mm) | Φ80*70 | | |
| Weight (g) | 780±20 (Including accelerometer) | | |
| Working temperature (°C) | -40~+65 | | |

| Quartz accelerometer parameters | | |
|---------------------------------|---|---|
| Number | Main indicator parameters | technical regulations |
| 1 | Range (g) | $\geq \pm 40$ |
| 2 | Scale factor temperature coefficient (ppm/°C) | ≤ 100 |
| 3 | Scale Factor Monthly Stability (ppm) | ≤ 100 |
| 4 | Bias value (mg) | $\leq \pm 7$ |
| 5 | Bias temperature coefficient ($\mu\text{g}/^\circ\text{C}$) | ≤ 100 |
| 6 | Partial monthly stability (μg) | ≤ 100 |
| 7 | Second-order nonlinear coefficient ($\mu\text{g}/\text{g}^2$) | ≤ 20 |
| 8 | Installation angle (°) | ≤ 200 |
| 9 | appearance | No scratches, cracks, or rust |
| 10 | insulation | $\geq 20\text{M } \Omega$; (100V), 25 °C \pm 5 °C, humidity \leq 80% |



C O N T A C T
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