



AXIOM-HS SERIES

AXIOM-HS-1000

Hollow-Shaft 6-Axis Force-Torque Sensor

The AXIOM-HS-1000 is a hollow-shaft, IP67-rated 6-axis force-torque sensor designed for end-effectors that need cable, pneumatic, or optical routing through the sensor. Single-cable integration with built-in electronics and a central through-bore for clean installation.



PERFORMANCE

	F_x	F_y	F_z	M_x	M_y	M_z
RANGE	$\pm 1,000$ N	$\pm 1,000$ N	$\pm 3,000$ N	± 50 Nm	± 50 Nm	± 50 Nm
RESOLUTION	50 mN	50 mN	100 mN	2 mNm	2 mNm	1 mNm
NOISE @ 100 Hz	48 mN	50 mN	108 mN	2 mNm	2 mNm	1 mNm

GENERAL

MEASUREMENT AXES	6-DOF
OUTPUT RATES	100 / 250 / 500 Hz
INTERFACE	RS-485
POWER	5 V DC
PROTECTION	IP67
TEMPERATURE	-20 °C to +60 °C
INTEGRATION	Single-cable

MECHANICAL

DIAMETER	Ø70 mm
HEIGHT	40 mm
WEIGHT	0.15 kg
MATERIAL	Aerospace-grade Al
MOUNTING	M5 × 6, top & bottom
BORE	Ø25 mm

KEY FEATURES

- 6-axis simultaneous measurement
- IP67: dust & water sealed
- Single-cable, no external box
- Low-noise, stable signal
- Compact form factor
- Central through-bore