

ER-MNS-06 Smallest Size Triaxial MEMS North Seeker



1. Technical Features

Smallest Size MEMS north seeker in the world

Triaxial MEMS gyro and accelerometer

Light weight, low power consumption

Resistant to harsh mechanical environment

2. Applications

Coal mining

Oil drilling

Tunnel construction

Geodesy

Static initial alignment of missile launch, weapon targeting

Direction control of radar, antenna, vehicle

3. Specifications

Model No.	ER-MNS-05A	ER-MNS-05B
Power supply (V)	5±0.25V	5±0.25V
Power (W)	2	2
Run-up time (s)	2	2
Communication interface	RS-422	RS-422
Update Rate (Hz)	200	200
North seeking accuracy (°, 5min)	1sec (L)(L is latitude)	0.5sec (L)(L is latitude)
Size (mm×mm×mm)	44.84×38.88×21.39	44.84×38.88×21.39
Weight (g)	≤60g	≤60g
Environmental conditions		
Operating temperature (°C)	-40~60	-40~60
Storage temperature (°C)	-55~85	-55~85
Reliability		
Mean Time Between Failures (h)	200000	200000

4. Wiring Definition

Connect Type	Pin	Definition
J30J-15ZKP	1	+5V
	2	
	3	GND
	4	
	6	Tx+
	7	Tx-
	8	Rx+
	9	Rx-
	10	GND