

ULTI
SENSE.

DMC-SX

Datasheet



For precise, quick and cost-effective orientation and angle measurement the DMC-SX is the obvious choice. Tried, field tested and trusted in over 100,000 electro-optical devices and systems worldwide, the DMC-SX is a key enabler in situational awareness, threat detection and neutralization.

Individually calibrated and stress screened this small and lightweight digital magnetic compass and vertical angle sensor provides accurate and reliable performance in harsh environmental conditions such as those in small arms fire control applications.

PRODUCT HIGHLIGHTS

Proven technology - over 100,000 DMC integrated

0.25° azimuth accuracy

Easy system integration

Weapon shock resistant

Tested to MIL-STD810

Maximum performance in the smallest of packages

APPLICATIONS

Handheld systems

Weapon mounts

Land vehicles

Remote weapon stations

UAVs/UGVs

DMC-SX
TECHNICAL DATA

HEADING	DMC-SX 5000	DMC-SX 4000
Accuracy	0.25 deg (1 σ)	0.5 deg (1 σ)
Elevation / Bank range	-45 deg to +45 deg	

ELEVATION / BANK (pitch/roll)

Accuracy	0.1 deg (1 σ)	0.25 deg (1 σ)
Calibrated range	-45 deg to +45 deg	
Functional range	-80 deg to +80 deg	

ELECTRICAL PROPERTIES

Power supply	4.75 V to 5.25 V	
Power consumption operational mode typical	225 mW	

COMMUNICATION INTERFACE

Serial interface type	5V TTL	
Connector type	4 pin	

MEASUREMENT CHARACTERISTICS

Measurement rate (selectable)	0.042 Hz to 50 Hz	
Start up time after shutdown	50 ms	

MECHANICAL PROPERTIES

Housing	Aluminium	
Weight	25 g	
Dimensions (L x W x H)	33 x 31 x 13.55 mm	

ENVIRONMENTAL PERFORMANCE

Operating temperature range	-32° C to +55° C	
Storage temperature range	-55° C to +85° C	
Shock (half sine)	2000 g / 0.5 ms	
Vibration (random 20 Hz to 2,000 Hz)	7.7 g RMS	

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