

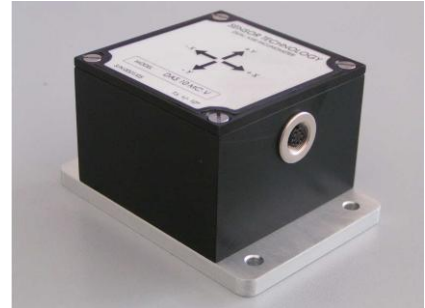
DAS-360-MC

Description

The DAS-360-MA is a MEMS capacitive inclinometer used for measuring the tilt angle of any object with respect to earth's gravity within a 0 to 360° range.

Typical application areas include construction, aerial platforms, scissor cranes and transportation systems.

- MEMS sensor;
- Measuring range from 0 to 360° or ±180° (programmable angular range);
- Input voltage: 7 to 30 VDC;
- Output: 0.5-4.5V (0-10V, 4-20 mA and RS232 TTL optional);
- Aluminum housing IP65 (IP67 optional);
- Dimensions: 85mm x 60 mm, height 50 mm;
- Weight: 380g.



Features

- Low power;
- High resistance to mechanical shocks and vibrations;
- No trimmer used for setting;
- Extremely low cross axis sensitivity;
- EMC tests performed according CEI EN 61000-4-3:2003 (80MHz to1000MHz - 10V/m);
- PG7 cable gland exit (connector exit optional).

Technical specifications		
Measuring range	°	360° or ±180°
Power supply	Volt	7 to 30
Output	-	0.5-4.5 V 0-10 V 4-20 mA RS232
X out zero	Volt	2.5 +/- 50 mV 5 +/- 50 mV 12 mA +/- 50 µA
Non linearity	° (max)	0.2 (linearized by microprocessor)
Resolution	°	0.09 (0.5 ÷ 4.50 output) 0.01 (RS232 TTLoutput)
Insulation Resistance	MOhm	> 100 @500Vdc
Temperature compensated Range	° C	-20 + 80
Stocking Temperature	° C	-40 + 80
Frequency Response	sec	0.3 (factory calibrated)
Zero temperature drift T 0- 60°	°	< 0.10
Temperature Sensitivity drift T 0 -60	°	< 0.1
Transverse sensitivity	%FS	<0.5 at 45° cross angle
Shock resistance	MIL- STD 202 E 213 B	1000 g
Vibration resistance	MIL STD 202E 204 D	20 g (10 to 2000 Hertz)