

INCLINOMETERS

DAS-XX-CB

Description

Sensor Systems' DAS-XX-CB working principle is based on a micromachined silicon capacitive transducer (developed with MEMS technology). Output signal from the sensing element, coming as a duty-cycle modulated waveform with carrying frequency of 100 Hz, is acquired by a microprocessing unit. The microprocessor provides continuous sampling of X and Y axes every 25 ms and gives as an output the angular information after performing Arcsin (X,Y) calculation.

Technical performances make them ideal for application in construction machinery, civil engineering geotechnical applications and levelling of mobile cranes together with mobile machines.



Technical specifications

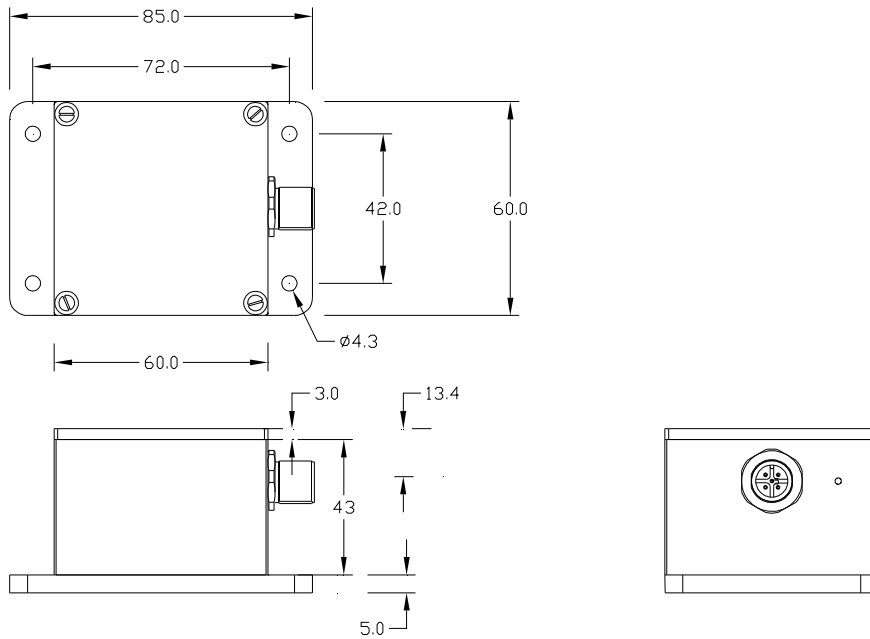
Measuring range	°	±10 up to ±45
Input voltage	Volt	10 ... 30
Current consumption	mA	25 @ + 24 Vdc
Linearity	-	up to +/- 10° 0.3 % FS up to +/- 45° 0.5 % FS
Resolution	°	0.01
Insulation Resistance	MOhm	> 100 @500Vdc
Temperature compensated Range	°C	0 +60
Storing Temperature	°C	-25 +85
Response time	s	0.3 (factory calibrated)
Zero temperature drift T 0-60°	°	< 0.1
Sensitivity temperature drift T 0-60°	°	< 0.1
Output	-	CAN interface 2.0 B, ISO11898
Communication profile	-	CANopen, CiA DS301 and DS410
Baud rate	Bit/s	10k 1M (125k default)
Node ID	-	0x20 (=32)
Transverse sensitivity	%FS	< 0.2
Shock resistance	MIL- STD 202 E 213 B	1000 G
Vibration resistance	MIL STD 202E 204 C	20 G (10 to 2000 Hertz)



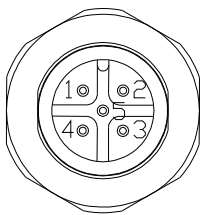


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Dimensions and mounting



Connections



DESCRIPTION	PIN	CONNECTOR TYPE
Vs	2	Binder Male socket M12x1 type 09-3441-88-05.
GND	1	
CAN_H	4	To be matched with Binder Female cable connector M12x1 ty. 99-0436-282-05
CAN_L	5	
CAN_GND	3	

