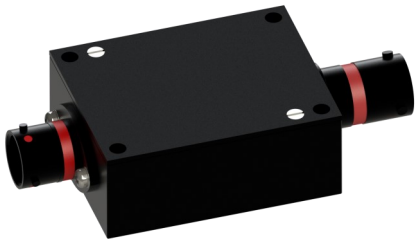
ka sensors
SENSE | ANALYZE | CONTROL

CAN8 Series
Signal Acquisition Module



Sensors For Motorsport

The CAN8 signal acquisition module integrates a high quality multi-channel data acquisition system, high performance Micro-Controller (MCU) and CAN Interface to provide access to external analog sensors via a Controller Area Network (CAN).

The Module offers an array of configuration options in terms of analog input conditioning and CAN output formats.

In addition, for maximum flexibility, a number of application layer configurations are available including: CANOpen, J1939 and a fully customizable proprietary protocol.

Features

- 16-Bit Resolution
- 8 Analog Channels
- PT1000 Input
- Speed Signal Inputs
- 5V Sensor Supply

Technical Specifications

Electrical Characteristics	
Power Supply	5Vdc or 6.5Vdc — 30Vdc
Current Consumption @ 12V	60mA
Regulated Sensor Supply	5Vdc
Max Sensor Current Supply	300mA
Input Channels	
Analog Inputs	Max 8x 0-5V (Dependant Upon Use of PT1000 and Freq.)
Resolution	12Bit or 16Bit Options
PT1000 Input	±0.1.8°F (±0.1°C)
Frequency Input	Max 6x 5V TTL, 0-8KHz
Sample Rate (Max)	1000Hz
CAN Interface	
Physical Layer	ISO-11898-2
Data Link Layer	Bosch CAN 2.0A and CAN 2.0B
Baud Rate (Max)	1MBit/s
Application Layer	Custom Configurations, J1939 and CANOpen
Environmental	
Operating Temperature	-15°F to 255°F (-25°C to 125°C)

Applications

- Temperature
- Acceleration
- Pressure
- Position / Angle
- Torque / Force
- Speed

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Represented by:

PMC/KA Sensors adopts a continuous development program which sometimes necessitates specification changes without notice

Part Number Configurator

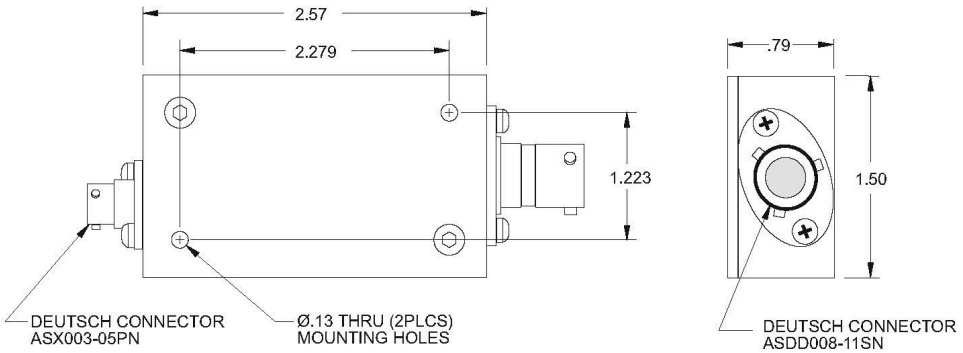
CAN8 - □ - □ - □ - □ - □

Analog Input Channels	Single Channel	1
	2 Channels	2
	3 Channels	3
	4 Channels	4
	5 Channels	5
	6 Channels	6
	7 Channels	7
	8 Channels	8
Temperature Input Channel	None	0
	PT1000, 2-Wire Class A	1
Frequency Input Channel	None	0
	Single Channel (Channel 3)	1
	2 Channels (Channel 3 and 4)	2
	3 Channels (Channel 3, 4 and 5)	3
	6 Channels (Channel 3, 4, 5, 6, 7 and 8)	6
Resolution	12Bit	12
	16Bit	16
Special Code	None	000

The KA configuration tool is used to specify a standard KA Sensor, other options are available.

Mechanical Details

Dimensions in inches



Electrical Details

Electrical connections: Deutsch Connector Type ASX003-05PN (Supply input & CAN out)	Connector Pin Numbers and Functions					
	1	2	3	4	5	
	6.5-30vdc supply	0vdc	CAN-H	CAN-L	NC	
Electrical connections: Deutsch Connector Type ASDD008-11SN (Sensor connections)	1	2	3	4	5	6
	5vdc regulated	6.5-30v output	0v	Ch 1 input	Ch 2 input	Ch 3 input
	7	8	9	10	11	
	Ch 4 input	Ch 5 input	Ch 6 input	Ch 7 input	Ch 8 input	

Sense
Analyze
Control

Sensors For:

- Temperature
- Acceleration
- Pressure
- Position
- Torque
- Speed
- Angle
- Force

Services For:

- Data Logging
- Telemetry
- Controls
- Wiring

Contact Us

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