

**Converts a Magnetic speed sensor  
signal into CANopen to communicate  
with machine control systems**



**Features:**

- 1 Magnetic Pick-up type input for interface with a sensor
- 1 CAN port (CANopen)
- Operational 8...60 Vdc (12 Vdc, 24Vdc or 48 Vdc)
- Integrated Deutsch IPD 6-pin connector
- Compact, fully sealed enclosure, IP67
- Meets the surge requirements of DIN EN 13309
- CE marking
- EDS file

**Applications:**

- Power Generator Set control systems
- Machine engine control systems

**Ordering Part Numbers:**

Magnetic Pick-up / CAN Converter, CANopen - P/N: **AX031501**  
EDS File is available from [www.axiomatic.com](http://www.axiomatic.com). Go to the log-in section and select User Manuals. Scroll down to the p/n.

Accessories:

Mating Plug KIT: **AX070119**

Specifications are indicative and subject to change. Actual performance will vary depending on the application and operating conditions. Users should satisfy themselves that the product is suitable for use in the intended application. All our products carry a limited warranty against defects in material and workmanship. Please refer to our Warranty, Application Approvals/Limitations and Return Materials Process as described on [www.axiomatic.com/service.html](http://www.axiomatic.com/service.html).

**Technical Specifications:** Typical at nominal input voltage and 25 degrees C unless otherwise specified

**Power**

Power Supply Input - Nominal	12 V, 24V or 48 Vdc nominal; 8...60 Vdc The minimum allowable supply voltage for the power pin is 7 Vdc.
Surge Protection	Meets the surge requirements of DIN EN13309
Reverse Polarity Protection	Provided

**Input**

Input	1 Magnetic Pick-up type input Frequency Range: 0.5 Hz to 20 kHz Amplitude: 100 mVAC to 100VAC (RMS)
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**General Specifications**

Memory	STM32F103CBT7, 32-bit, 128 Kbytes Flash Program Memory
CAN Port	1 CANopen®
Control Logic	The Converter comes pre-programmed with standard logic. Refer to the user manual.
Sampling Time	The input is tied to a 16-bit timer.
Quiescent Current Draw	9.1 mA @ 24Vdc; 16 mA @ 12Vdc Typical
Operating Conditions	-40 to 85°C (-40 to 185°F)
Weight	0.10 lb. (0.045 kg)
Protection Rating	IP67
EMC Compliance	CE marking
Vibration	MIL-STD-202G, Test 204D and 214A (Sine and Random) 10 g peak (Sine); 7.86 Grms peak (Random)
Shock	MIL-STD-202G, Test 213B, 50 g
Enclosure and Dimensions	Plastic Enclosure, Nylon 6-6 with 30% glass fill Integral Deutsch IPD connector Refer to Figure 1.0.
Electrical Connections	6 pin Deutsch IPD connector P/N: DT04-6P A mating plug kit is available as Axiomatic P/N: <b>AX070119</b> .
S/W Reflashing	Axiomatic Electronic Assistant® <b>AX070502</b>

CAN and I/O Connector	
Pin #	Description
1	BATT+
2	Input +
3	CAN_H
4	CAN_L
5	Input GND
6	BATT-

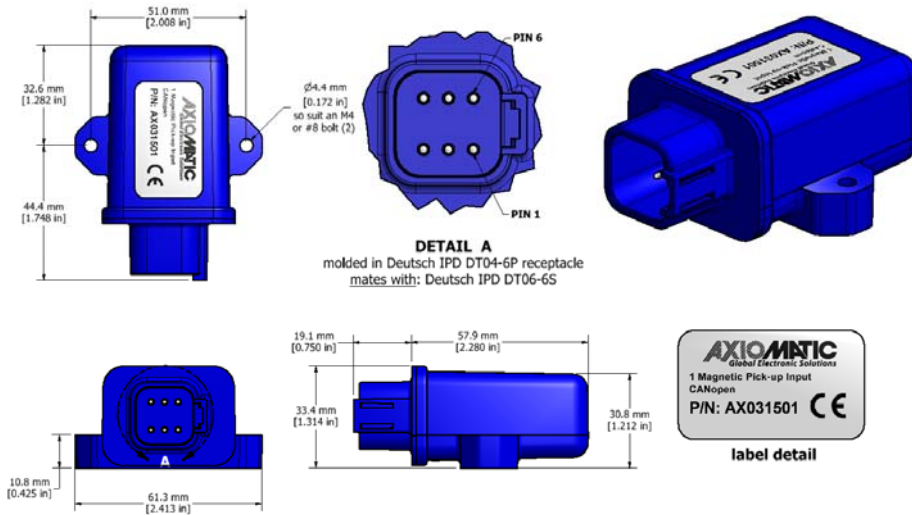


Figure 1.0 – Dimensional Drawing

Notes: CANopen® is a registered community trademark of CAN in Automation e.V.

Form: TDAX031501-01/28/20