



TYPE APPROVAL CERTIFICATE



N. ELE204819CS

This is to certify that the product below is found to be in compliance with the applicable requirements of the RINA type approval system.

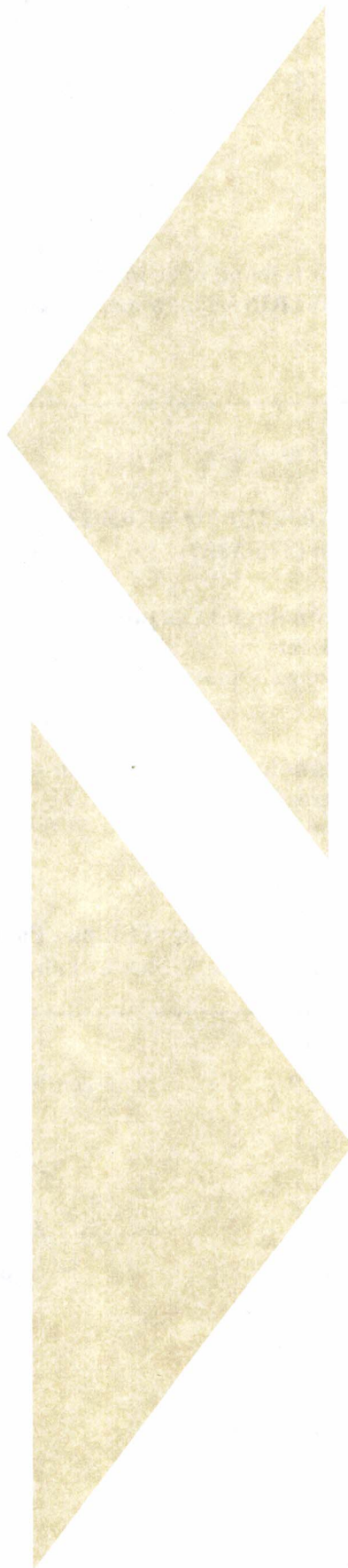
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|--------------------------|---|
| <i>Description</i> | Distributed I/O modules |
| <i>Type</i> | AX030210; AX030210-01; AX030210-02; AX030211 CATAX030210 (573-5839) |
| <i>Applicant</i> | Axiomatic Technologies Corporation 5915 Wallace Street L4Z 1Z8 Mississauga, Ontario CANADA |
| <i>Manufacturer</i> | Axiomatic Technologies Corporation 5915 Wallace Street L4Z 1Z8 Mississauga, Ontario CANADA |
| <i>Testing Standards</i> | Rules for the Classification of Ships - Part C - Machinery, Systems and Fire protection - Ch.3, Sect.6, Tab.1. |

Issued in **Genova** on **December 11, 2019**

This certificate is valid until **December 11, 2024**

RINA Services S.p.A.

Luigi Benedetti



RI A



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General Description:

Up to 10 Universal inputs are user selectable from the following:

- 0-5V or 0-10V (res. 1mV , +/- 1% accuracy) , 4-20mA or 0-20mA (res. 1uA , +/- 1% accuracy)
- Digital inputs for interface to switches (configurable 10K pull-up or pull-down resistor)
- PWM (Duty Cycle 0 to 100%, 0,5 to 10kHz @ 5-12V , +/- 1% accuracy) or pulse input or 16-bit counter inputs from sensors or diesel engine ECM's

2 Voltage references can power external sensors (2 to +5 or 2 to +10V sourcing up to 100mA)

1 Resistive input (1 Ohm resolution; +/- 1% accuracy)

1 Digital Input

8 Analog outputs (0-5V, 0-10V, +/-5V, +/-10V, 0-20mA, 4-20mA)

1 Form C Relay Output

12/24Vdc input power supply

1 Isolated CAN (SAE J 1939), CANopen.

IP56 packaging and connectors

Configure with Axiomatic Electronic Assistant

Axiomatic Coding:

AX030210 (SAEJ1939_250kbps); **AX030210-01** (SAEJ1939_500kbps); **AX030210-02** (SAEJ1939_1Mbps)
AX030211 (CANOpen)

Caterpillar Coding:

573-5839

ELITE Test Reports:

Environmental Tests: doc. n. 1902126-01 (27/2019)

EMC tests: doc. n. 1902125-01 (27/2019)

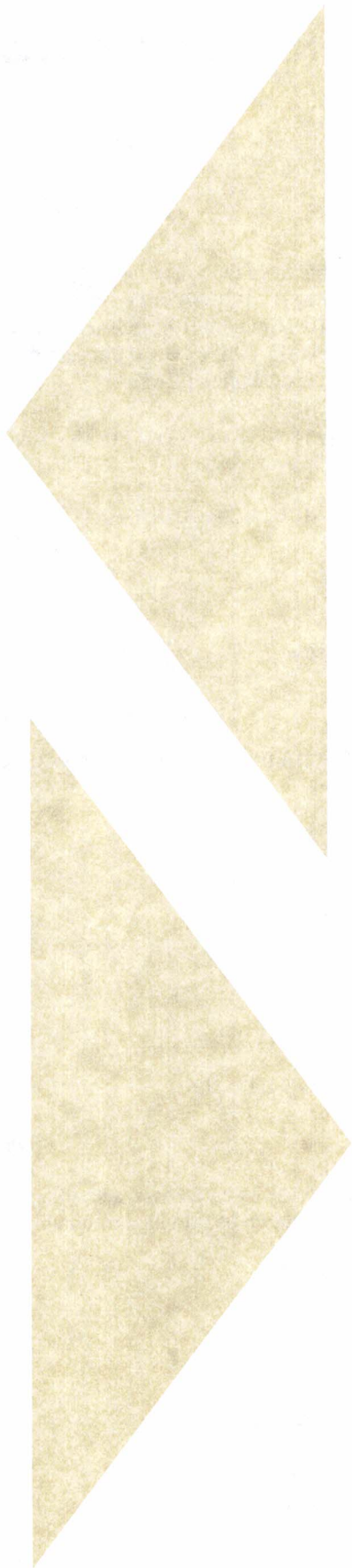
Technical specifications

Axiomatic Datasheet n. TDAX030210-MTA (11/19/19)

Remarks:

Fail to Safe operation will be evaluated on a case by case bases, according to the specific application.

Unit failure shall be detected and output warning to be provided in suitable manned station.



RI A