

EU DECLARATION OF CONFORMITY**NUMBER** – 960-0122-001**ISSUER'S NAME & ADDRESS:** AI-TEK Instruments, LLC
152 Knotter Drive, Cheshire, CT 06410 USA
Telephone: (203)271-6000 FAX: (203)271-6200**OBJECT OF THE DECLARATION:** Self generating variable reluctance speed sensor,
model: 70085-1010-517*
*Proprietary

This declaration of conformity is issued under the sole responsibility of the manufacturer.

The object of the declaration described above is in conformity with the requirements of the following documents:

EN 60079-0:2018 Electrical apparatus for explosive gas atmospheres – General Requirements

EN 60079-11:2012 Equipment Protection by Intrinsic Safety – Type of Protection: “i”

IEC 60079-0:2017 – General Requirements

IEC 60079-11:2011 – Equipment Protection by Intrinsic Safety “i”

ATEX Directive 2014/34/EU

EMC Directive 2014/30/EU

REACH Regulation 1907/2006 current version of SVHC List

RoHS Directive 2011/65/EU current list of restricted substances

Notified Body: QAN: Intertek 2575
Intertek Italia S.p.A.
Via Miglioli, 2/A – 20063 Cernusco sul Naviglio, Milano – Italy

SIZE A	CODE IDENT. NUMBER 1XP56	DWG NO.: 960-0122-001	REV P
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ADDITIONAL INFORMATION:

1. This device must be used with an intrinsic barrier MTL model 7764ac when used in a Zone 1 area.
2. The flying leads shall be terminated in a suitable ATEX approved terminal enclosure when terminated in a classified (Zoned) area.
3. These devices shall only be installed in applications where the operating temperature is between -65°C and +95°C.
4. These sensors are considered to be inherently benign in the context of the EMC Directive 2004/108/EC, Article 1(3).
5. These items do not contain any of the chemicals in concentrations greater than 0.1% w/w listed in the REACH list of SVHC's that is in effect as of this date.
6. These items do not contain any of the materials, in concentrations greater than 0.1% w/w (Cd < 0.01% w/w), that are on the RoHS list in effect as of this date.

These devices comply with the requirements of the above standards and the ATEX directive 2014/34/EU for use in a Group IIC, Category 2G, Zone 1 area when installed per AI-TEK Installation Instruction 960-0123-001. The component will be marked in compliance with the requirements:

⊕	II 2G Ex ia IIC T4 Gb Tamb: -65°C to +95°C ITS 09 ATEX 26207X	Ex ia IIC T4 Gb -65°C < Ta < 95°C IECEX ITS 10.0018X
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ENTITY PARAMETERS:

DC Coil Resistance = 185 – 240 Ohms
 Coil Inductance = 35 mH, Maximum @ 1KHz
 Generated Current = 50 mA, Maximum
 Output Voltage ≥ 13.4 Vp-p with an 8DP/12T target gear rotating at 500 in/sec (12.7 m/sec) and an air gap of .030 inch (.762 mm)

Signed for and on behalf of:
 AI-TEK INSTRUMENTS, LLC
 Cheshire, CT USA
 20 August 2021



Howell Mullings, Product Engineer

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