

960-0137-001

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REVISIONS

LTR	DESCRIPTION	DATE	APVD
A	Original Release per C.O.7489	8/24/17	CSK
B	Revised per C.O.7643	8/1/18	CSK
C	REVISED PER C.O. 7698	5/26/20	JAZ
D	REVISED PER C.O. 7763	8/20/2021	HM

RECORD OF REVISION STATUS OF EACH SHEET

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29
A	A	/																										
B	B	/																										
C	C	C	/																									
D	D	D	/																									

REGULATORY DOCUMENT

AI-TEK Instruments, LLC
CHESHIRE, CT USA 06410

APPROVALS

DATE

PREPARED	CS Kalley	1/20/17
CHECKED	CS Kalley	8/24/17
DSGN ENGR	CS Kalley	8/24/17
QUAL ENGR	D. Schiavo	8/31/17
MFG ENGR	J. Zitnay	9/5/17

TITLE:

DECLARATION OF CONFORMITY

SIZE

A

CODE IDENT. NUMBER

1XP56

DWG. NO.

960-0137-001

SHEET 1 OF 3

EU DECLARATION OF CONFORMITY**NUMBER** – 960-0137-001**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 Ai-Tek 70090 series speed sensors.

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 requirementsEN60079-18:2015+A1:2017: Electrical apparatus for potentially explosive atmospheres –
Type of Protection: 'm'

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

IEC 60079-0:2017: Explosive atmospheres – Part 0: General requirements

IEC 60079-18:2014+A1:2017: Explosive atmospheres – Part 18: Equipment protection by
encapsulation "m"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.: 960-0137-001	REV D
			SHEET 2

ADDITIONAL INFORMATION:

1. The flying leads shall be terminated in a suitable Ex approved terminal enclosure when terminated in a classified (Zoned) area.
2. These devices shall only be installed in applications where the operating temperature is between -40°C and +150°C.
3. These sensors are considered to be inherently benign in the context of the EMC Directive 2014/30/EU Article 2, paragraph 2 d (i).
4. 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.
5. 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 960-0136-001

	II 2G Ex mb IIC T3 Gb Tamb: -40°C to +150°C ITS 17 ATEX 11926X	Ex mb IIC T3 Gb -40°C to +150°C IECEX ETL 17.0027X
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ENTITY PARAMETERS:

Output Voltage > 1 Vp-p with a 12DP target gear rotating at 100 in/sec (2.54 m/sec) and an air gap of .028 inch (.71 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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			SHEET 3