

960-0134-001

U

REVISIONS

LTR	DESCRIPTION	DATE	APVD
A	Original Release per C.O.7416	10/13/16	CSK
B	Revised per C.O.7461	11/7/16	CSK
C	Revised per C.O.7643	8/1/18	CSK
D	REVISED PER C.O.7698	5/26/20	JAZ
E	REVISED PER C.O. 7763	8/20/21	HM

VERIFY REVISION  
BEFORE USING

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	/																									
E	E	E	/																									

REGULATORY DOCUMENT

AI-TEK Instruments, LLC  
CHESHIRE, CT USA 06410

APPROVALS

DATE

PREPARED	CS Kalley	10/13/16
CHECKED	CS Kalley	10/13/16
DSGN ENGR	CS Kalley	10/13/16
QUAL ENGR	D. Schiavo	10/25/16
MFG ENGR	J. Zitnay	10/20/16

TITLE:

DECLARATION OF CONFORMITY

SIZE

A

CODE IDENT. NUMBER

1XP56

DWG. NO.

960-0134-001

SHEET 1 OF 3

**EU DECLARATION OF CONFORMITY****NUMBER** – 960-0134-001**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 sensors,  
models: 70085-1010-005, -327, -328, -330, -411, -412, -413, -414

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 60079-1:2014: Equipment Protection by Flameproof Enclosures Type of Protection: 'd'

IEC 60079-0:2011: Explosive atmospheres – Part 0: General requirements

IEC 60079-1:2014-06: Explosive atmospheres – Part 1: Equipment protection by flameproof enclosures "d"

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 <b>A</b>	CODE IDENT. NUMBER <b>1XP56</b>	DWG NO.: <b>960-0134-001</b>	REV E
			SHEET 2

**ADDITIONAL INFORMATION:**

1. The flying leads shall be terminated in a suitable Ex approved terminal enclosure when terminated in a Zoned area.
2. These devices shall only be installed in applications where the operating temperature is between -65°C and +95°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 units must be installed with an Ex d certified sealing device such as a conduit seal with setting compound, rated for 120°C minimum, shall be installed at the lead exit of the speed sensor.
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 are 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 Instructions 960-0135-001. The component will be marked in compliance with the requirements:

	II 2 G Ex db IIC T4 Gb Tamb: -65°C to 95°C ITS 16 ATEX 101472X	Ex db IIC T4 Gb -65°C ≤ Tamb ≤ 95°C IECEX ETL 16.0039X
---	---	--

**ENTITY PARAMETERS:**

DC Coil Resistance = 240 Ohms, Maximum  
 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

SIZE <b>A</b>	CODE IDENT. NUMBER <b>1XP56</b>	DWG NO.: <b>960-0134-001</b>	REV E
			SHEET 3