

960-0129-001

J

REVISIONS

LTR	DESCRIPTION	DATE	APVD
1	Preliminary	4/4/11	CSK
2	Changed Max. Amb. Temp to 95C from 100C	5/27/11	CSK
A	Original Release per C.O.6573	7/19/11	CSK
B	Revised per C.O.6930	6/12/13	CSK
C	Revised per C.O.6964	8/13/13	CSK
D	Revised per C.O.7363	2/24/16	CSK
E	Revised EMC directive per C.O.7390	5/24/16	CSK
F	Revised per C.O.7442	9/1/16	CSK
G	Revised per C.O.7449	9/30/16	CSK
H	Revised per C.O.7652	10/10/18	CSK
J	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
1	1	/																										
2	2	/																										
A	A	/																										
B	B	B	/																									
C	C	C	/																									
D	D	D	/																									
E	E	E	/																									
F	F	F	/																									
G	G	G	/																									
H	H	H	/																									
J	J	J	/																									

REGULATORY DOCUMENT

AI-TEK Instruments, LLC
CHESHIRE, CT USA 06410

APPROVALS

DATE

PREPARED	CS Kalley	4/4/11
CHECKED	CSKalley	7/19/11
DSGN ENGR	CSKalley	7/19/11
QUAL ENGR	CEGerard	7/19/11
MFG ENGR	ERuman	7/19/11

TITLE:

DECLARATION OF CONFORMITY

SIZE

A

CODE IDENT. NUMBER

1XP56

DWG. NO.

960-0129-001

SHEET 1 OF 3

SUPPLIER'S DECLARATION OF CONFORMITY

(in accordance with ISO/IEC 17050-1)

NUMBER – 960-0129-001

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,
 model family 70085-3030-xxx

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
- EN60079-11:2017: Equipment Protection by Intrinsic Safety "i"
- IEC 60079-0:2011 – 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

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 2014/30/EU, Article 2, paragraph 2 d (i).
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, that are on the RoHS list in effect as of this date.

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			SHEET 2

CONTINUATION SHEET

7. These devices comply with the requirements of the above standards and the ATEX directive 2014/34/EU for use in a Group II Category 2G, Zone 1 area when installed per AI-TEK Installation Instruction 960-0130-001. The component will be marked in compliance with the requirements:

⊕ II 2G
Ex ia IIC T4 Gb
-65°C ≤ Tamb ≤ 95°C
ITS09ATEX26207X

Ex ia IIC T4 Gb
-65°C ≤ Tamb ≤ 95°C
IECEx ITS10.0018X

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

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



Howell Mullings, Product Engineer

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