

960-0129-001	G	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		

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	/																									

REGULATORY DOCUMENT			AI-TEK Instruments, LLC CHESHIRE, CT USA 06410		
APPROVALS		DATE	TITLE: DECLARATION OF CONFORMITY		
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	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 60079-0:2013: Electrical apparatus for explosive gas atmospheres-
 General requirements
- EN60079-11:2012: 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

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 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

SIZE A	CODE IDENT. NUMBER 1XP56	DWG NO.: 960-0129-001	REV G
			SHEET 2

CONTINUATION SHEET

ENTITY PARAMETERS:

DC Coil Resistance = 185 – 240 Ohms

Coil Inductance = 35mH, Maximum @ 1KHz

Generated Current = 50mA, Maximum

Output Voltage = $\geq 13.4V_{p-p}$ 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 30 September 2016



Craig Kalley, Sr. Product Engineer

SIZE A	CODE IDENT. NUMBER 1XP56	DWG NO.: 960-0129-001	REVG
			SHEET 3