960-0101-001 N

REVISIONS DESCRIPTION DATE LTR APVD Н Redrawn; Replaces Rev G with change per C.O.6061 6/4/08 ĴΗ Revised per C.O. 6236 5/6/09 CSK. Κ Revised per C.O.6833 9/21/12 CSK 4/24/13 CSK Revised per C.O.6918 7/28/16 М Revised per C.O.7416 CSK Revised per C.O.7763 8/20/21 НМ

RECORD OF REVISION STATUS OF EACH SHEET 3 6 14 15 Н Н Н Н Κ Н Н Н М М Ν Ν Ν

REGULATORY DOCUMENT		CHESHIRE, CT USA 06410			
	APPROVALS	DATE		CHESHI	RE, CT USA 06410
PREPARED	KAErasmus	5/28/08	TITLE:		And the second s
CHECKED	JHamed	6/4/08	INSTALLATION INSTRUCTIONS		
DSGN ENGR	JHamed	6/4/08		MAGNETI	C SPEED SENSORS
QUAL ENGR	CEGerard	6/5/08	SIZE	CODE IDENT.	DWG. NO.
MFG ENGR	PJulian	6/4/08	Δ	1XP56	960-0101-001
					SHEET 1 OF 3

INSTALLATION INSTRUCTIONS FOR MAGNETIC SPEED SENSORS

Page 1 is for Document Control Only and is not included.

EC COMPLIANCE:

This non sparking device conforms to the requirements of EN 60079-1 & EN 60079-0 for use in a Group II category 2 G, zone 1 hazardous environment. The safety of operation is assured by the design and construction of the unit. Its operating circuitry features low energy capability, very low capacitance and inductance and is mounted in a fully encapsulated, stainless steel housing with no significant amount of light metal. It has a very low temperature rise, <10°C over the ambient or mounting temperature.

MANUFACTURER:

Al-TEK Instruments, LLC. 152 Knotter Drive Cheshire, CT 06410

Models: 70085-1010-081, -329, 70085-101008130, 70085-101032930

MARKING:

II 2 G
 Ex db IIC T4 Gb
 -65°C ≤ Tamb ≤ 95°C

<u> </u>	xxx ← Date Code (Two Digit Year, Single Digit Month Code) Model Number & Customer Number when applicable
OR'	woder Number & Oustomer Number when applicable
Al-TEK/70085-1 010 <u>nnn</u> 30	xxx ← Date Code (Two Digit Year,
	Single Digit Month Code) Model Number & Customer Number when applicable

DATE CODE					
MONTH	CODE	MONTH	CODE	MONTH	CODE
JAN	Α	MAY	Е	SEPT	K
FEB	В	JUN	G	OCT	L
MAR	С	JUL	Н	NOV	M
APR	D	AUG	J	DEC	N

UL/CSA Required Marking

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TEMPERATURE RATING:

Operating/Mounting temperature: -65°C to 95°C

STANDARD SENSOR INSTALLATION SEE FIGURE #1:

- 1. If a feeler gauge can be used, select the gauge with the proper thickness and place it over the highest point on the target. Thread the sensor into the mounting bracket until it touches the selected gauge, then tighten the locknut.
- 2. If a feeler gauge cannot be used, thread the sensor into the threaded hole finger tight against a tooth or the largest diameter of the stationary target. Back the sensor out of contact until the desired air gap is set, then tighten the locknut. A full CCW revolution results in an air gap of: one divided by the number of threads per inch.

EXAMPLE: 5/8 - 18 THREAD = 1/18 = .056".

SENSORS WITH INTERNAL PIPE THREADS FOR CONDUIT FITTINGS:

Install the conduit fitting into the sensor egress internal thread and finger tighten. While holding the sensor hex body with a 1" wrench, tighten the conduit fitting and locknut(s). Install a conduit seal at 18" or before from the sensor body.

DO NOT EXCEED 100 POUND-INCHES FOR 5/8" OR 3/4" HOUSINGS.

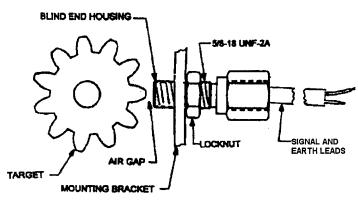
MAINTENANCE:

This component requires no maintenance or recalibration other than periodic checks to ensure that it is relatively clean and secure (no loose locknuts).

USER PRECAUTIONS:

Contact between the sensor and a rotating target may cause damage to the sensor. Always adjust the air gap between the sensor tip and the target while the target is motionless with its largest diametrical feature in front of the sensor. After the adjustment, slowly rotate the target by hand, if possible, to ensure that there is no contact due to run out.

FIGURE #1



TYPICAL SENSOR INSTALLATION

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