

**SPECIFICATIONS:**

Analog I/Os: (See Note 1)

- 0 - 5 V DC output, 8 - 30 V DC input, 35 mA max.
- 0.5 - 4.5 V DC output, 8 - 30 V DC input, 35 mA max.
- 0 - 10 V DC output, 12 - 30 V DC input, 35 mA max.
- 4 - 20 mA DC output, 18 - 30 V DC input, 60 mA max. (75 C max.)

Measuring Ranges: See range table

Zero and Full Scale: SenSet Adjustable

Linearity Error: ±0.15% of FSO (Full Span Output) typical, ±0.25% max.

Resolution: 0.025% of FSO

Update Rate: 300 Hz nominal

Operating Temperature Range: -40 to 105 C

Temperature coefficient: ≤±0.015% of FSO/K

Humidity: 95% RH non-condensing

Vibration: 5-20 Hz, 0.5 inch p-p; 20-2000 Hz, 4.2 g p-p

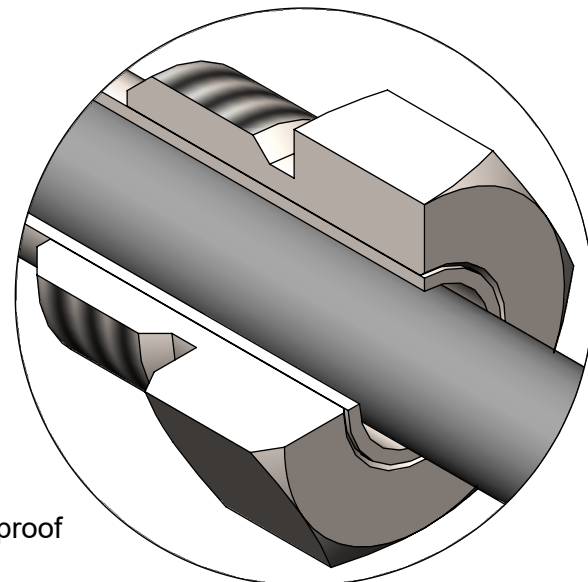
Shock: 1000 g, 11 msec.

Pressure Media: Standard mineral oil and HWB hydraulic fluids

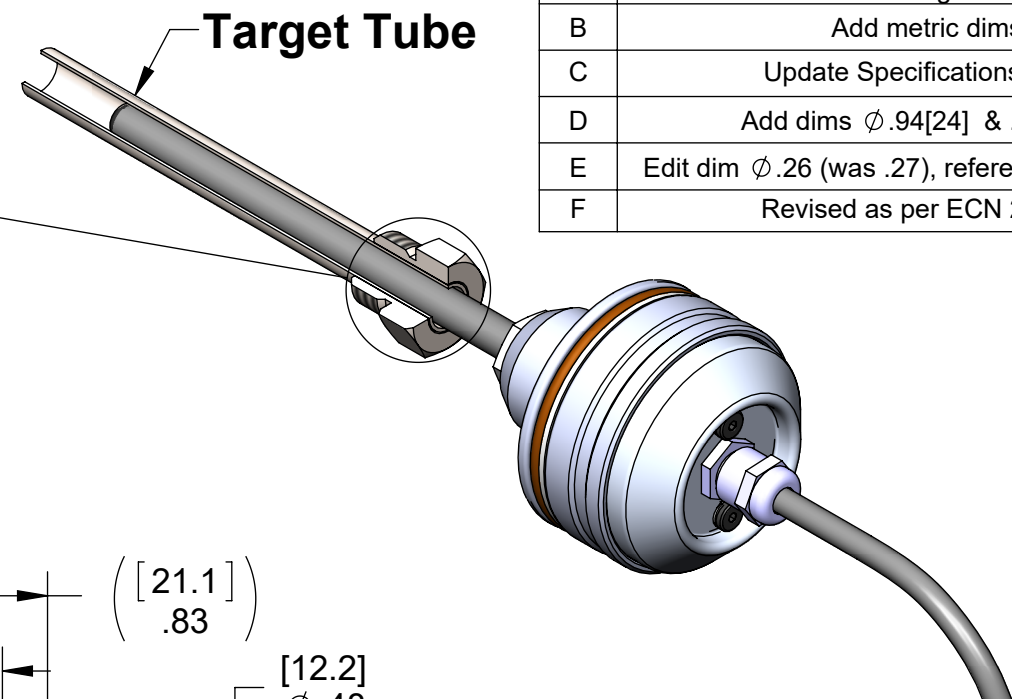
Pressure Rating: 5000 psig (350 bar) operating max., 7500 psig (520 bar) proof

Note 1. Analog output is maximum at probe tip end; see technical data sheet to specify reversed output.

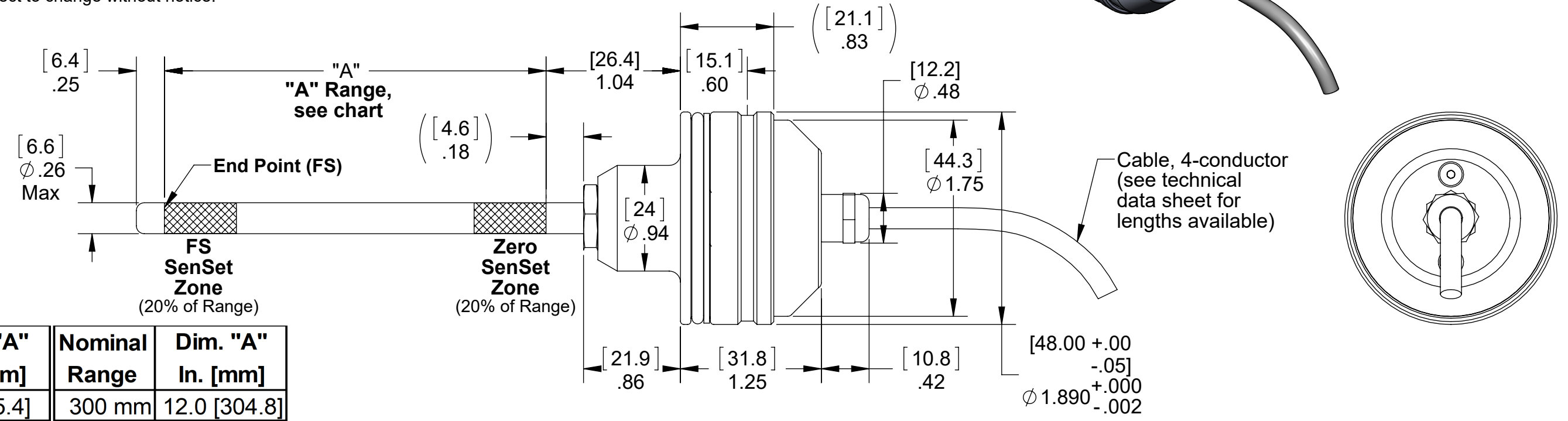
Specifications are subject to change without notice.



**DETAIL A**  
SCALE 3 : 1



REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	Edit notes. Add new tables. Change Probe dimensioning scheme.	07-23-14	EH
B	Add metric dims	01-14-15	EH
C	Update Specifications to V5	02-02-15	EH
D	Add dims $\phi$ .94[24] & .48[12.2]	03-19-15	EH
E	Edit dim $\phi$ .26 (was .27), reference ECN 16-177	09-20-16	EH
F	Revised as per ECN 24-380	03-29-24	EH



Nominal Range	Dim. "A" In. [mm]	Nominal Range	Dim. "A" In. [mm]
25 mm	1.0 [25.4]	300 mm	12.0 [304.8]
50 mm	2.0 [50.8]	350 mm	14.0 [355.6]
75 mm	3.0 [76.2]	400 mm	16.0 [406.4]
100 mm	4.0 [101.6]	450 mm	18.0 [457.2]
125 mm	5.0 [127.0]	500 mm	20.0 [508.0]
150 mm	6.0 [152.4]	600 mm	24.0 [609.6]
175 mm	7.0 [177.8]	700 mm	28.0 [711.2]
200 mm	8.0 [203.2]	750 mm	30.0 [762.0]
225 mm	9.0 [228.6]	800 mm	32.0 [812.8]
250 mm	10.0 [254.0]	900 mm	36.0 [914.4]

MEX-7 Series Wiring Table		
Ordering Guide	I/O Function	Cable Color
Model	Output	
MEE	Voltage	Green
MEI	Current	White
	Power input	Red
	Ground	Black
	Analog output	Green
	SenSet™	White

**NOTE:**  
Refer to Sheet 2 for details of target tube

UNLESS OTHERWISE SPECIFIED:		CONTRACT NO.	
1. DO NOT SCALE DRAWING		--	
2. DIMENSIONS ARE IN INCHES		DRAWN BY: G E Miller	
3. INTERPRET DIM/TOL PER ANSI Y14.5M-1994		DATE: 03-28-13	
4. DEBURR/BREAK SHARP EDGES		ENGINEER: Ed Herceg	
5. DIMS ARE BEFORE FINISH		CHECKED BY: Ed Herceg	
6. (DATA) FOR REFERENCE ONLY		DATE: 03-28-13	
TOLERANCES		MFG: --	
DECIMAL: .XX ±.010	FRACTIONAL: ±1/32	APPROVED BY: --	
.XXX ±.005	ANGULAR: ±5°	DATE: --	
THIRD ANGLE PROJECTION		FILENAME: 3000-0006-MEX-7-XX Series Outline	
		SCALE: 1:1	

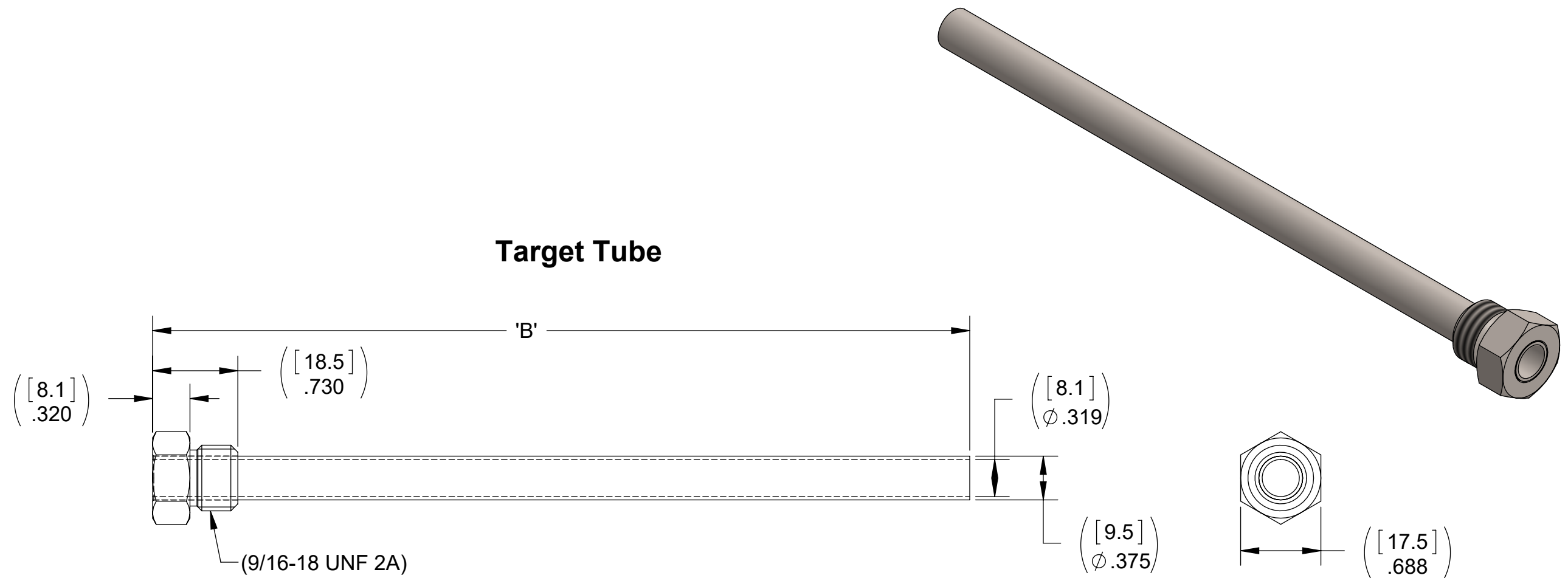
**ALLIANCE SENSORS GROUP**  
A DIVISION OF HG SCHAEVITZ LLC  
Pennsauken, New Jersey USA [alliancesensors.com](http://alliancesensors.com)

**MEX-7-XX Series**  
Outline

SIZE: **B** CAGE CODE: **7LE43** DWG. NO.: **3000-0006-XX** REV: **F**

RELEASE DATE: -- SHEET 1 OF 2

DWG. NO. 3000-0006-XX REV. F EDITION 04-25-24 BR: SN



Range -XX	Overall depth 'B'	Range -XX	Overall depth 'B'
In. [mm]	In. [mm]	In. [mm]	In. [mm]
1.0 [25.4]	2.0 [50.8]	12.0 [304.8]	13.0 [330.2]
2.0 [50.8]	3.0 [76.2]	14.0 [355.6]	15.0 [381.0]
3.0 [76.2]	4.0 [101.6]	16.0 [406.4]	17.0 [431.8]
4.0 [101.6]	5.0 [127.0]	18.0 [457.2]	19.0 [482.6]
5.0 [127.0]	6.0 [152.4]	20.0 [508.0]	21.0 [533.4]
6.0 [152.4]	7.0 [177.8]	24.0 [609.6]	25.0 [635.0]
7.0 [177.8]	8.0 [203.2]	28.0 [711.2]	29.0 [736.6]
8.0 [203.2]	9.0 [228.6]	30.0 [762.0]	31.0 [787.4]
9.0 [228.6]	10.0 [254.0]	32.0 [812.8]	33.0 [838.2]
10.0 [254.0]	11.0 [279.4]	36.0 [914.4]	37.0 [939.8]

**NOTE:**  
Refer to ASG document 1300-0011, Rev A: Installation of a LVIT Position Sensor in Hydraulic Cylinder for information on how to install the target tube

UNLESS OTHERWISE SPECIFIED: 1. DO NOT SCALE DRAWING 2. DIMENSIONS ARE IN INCHES 3. INTERPRET DIM/TOL PER ANSI Y14.5M-1994 4. DEBURR/BREAK SHARP EDGES 5. DIMS ARE BEFORE FINISH 6. (DATA) FOR REFERENCE ONLY		CONTRACT NO. --		<b>ALLIANCE SENSORS GROUP</b> A DIVISION OF HG SCHAEVITZ LLC Pennsauken, New Jersey USA <a href="http://alliancesensors.com">alliancesensors.com</a>	
TOLERANCES DECIMAL: .XX ±.010 FRACTIONAL: ±1/32 .XXX ±.005 ANGULAR: ±.5°		DRAWN BY: G E Miller DATE: 03-28-13			
THIRD ANGLE PROJECTION 		ENGINEER: Ed Herceg DATE: 03-28-13		<b>Hydraulic LVIT Target Tube</b> for MEX-7-XX Series Assy	
MFG: --		CHECKED BY: Ed Herceg		SIZE: <b>B</b>	CAGE CODE <b>7LE43</b>
APPROVED BY: --		QA: --		DWG. NO. <b>3000-0006-XX</b>	REV <b>F</b>
		FILENAME: 3000-0006, MEX-7-XX Series Outline		SCALE: 1:1	RELEASE DATE: --
				SHEET 2 OF 2	

DWG. NO. 3000-0006-XX  
REV. F  
ED: 04-25-24  
BY: SN