

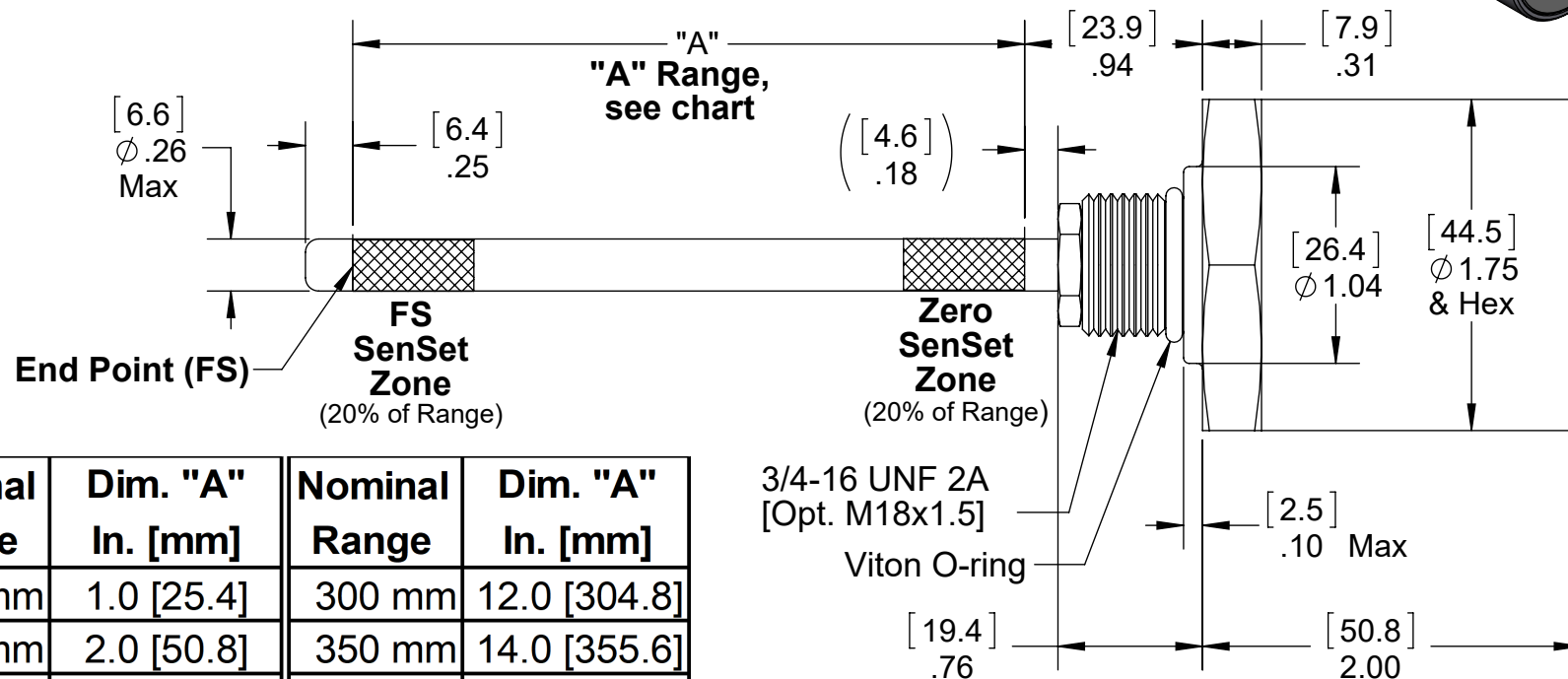
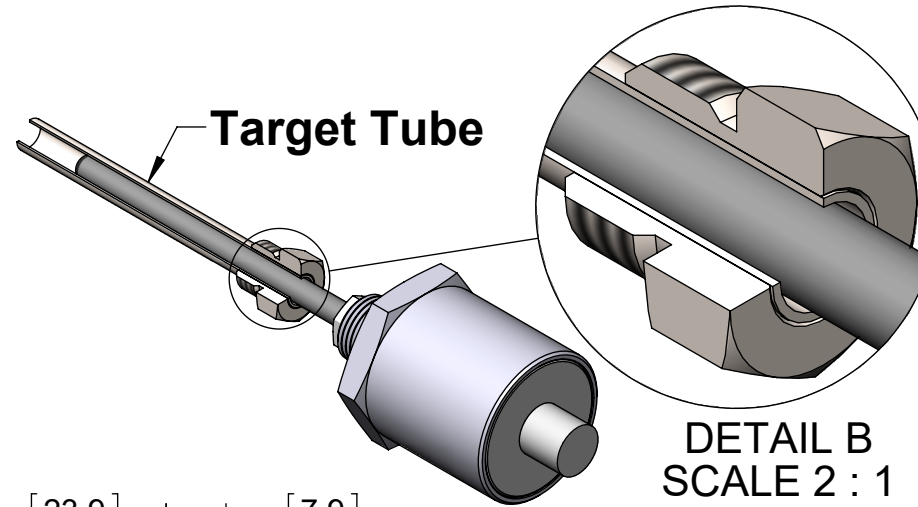
SPECIFICATIONS:

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) max. operating, 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.

REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	Edit notes. Add new tables. Change Probe dimensioning scheme.	07-22-14	EH
B	Add metric dims, add Output inset	01-14-15	EH
C	Update Specifications to V2	02-02-15	EH
D	Edit dim ϕ .26 (was .27), update termination chart. Reference ECN 16-177	09-19-16	EH
E	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]

Ordering Guide		MRX-7-XX	Conn	Cable
Model	Output	I/O Function	Pin	Color
MRE	Voltage	+ Power Input	1	Red
MRI	Current	Ground	2	Black
		Voltage output	3	Green
		Current output	4	Green
		SenSet™	5	White

TERMINATION: See connection schematic

Connector
5-Pin Mini
7/8-16 UN

5-Pin M12
Connector

Cable, 4-conductor,
1 m length
(Opt. 3 m)

Other terminations available upon request

NOTE:
Refer to Sheet 2 for details of 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. --		ALLIANCE SENSORS GROUP <i>A DIVISION OF HG SCHAEVITZ LLC</i> Pennsauken, New Jersey USA alliancesensors.com	
TOLERANCES DECIMAL: .XX ±.010 FRACTIONAL: 1/32 ±.005 ANGULAR: ±5°		DRAWN BY: G E Miller			
THIRD ANGLE PROJECTION		ENGINEER: Ed Herceg		CHECKED BY: Ed Herceg	
MFG: --		APPROVED BY: --		DATE: --	
FILENAME: 3000-0004-XX Series Outline		SCALE: 1:1		RELEASE DATE: --	

SIZE: **B**

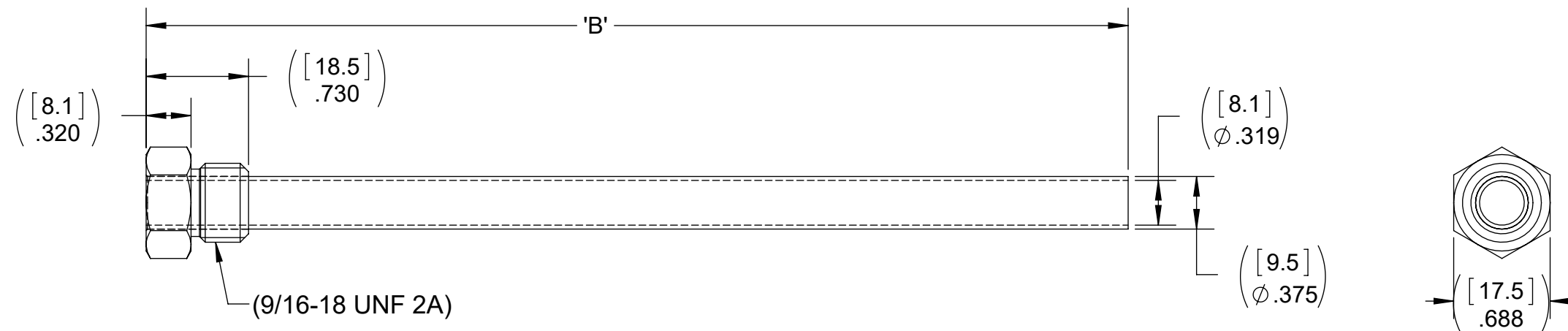
CAGE CODE: **7LE43**

DWG. NO.: **3000-0004-XX**

REV: **E**

SHEET 1 OF 2

Target Tube



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. --		ALLIANCE SENSORS GROUP A DIVISION OF HG SCHAEVITZ LLC Pennsauken, New Jersey USA alliancesensors.com	
TOLERANCES		DRAWN BY: G E Miller			
DECIMAL: ±.010 XX ±.010 XXX ±.005		FRACTIONAL: ±1/32		ENGINEER: Ed Herceg	
THIRD ANGLE PROJECTION		CHECKED BY: Ed Herceg		DATE: 02-30-13	
APPROVED BY:		MFG:		SIZE: B	
				CAGE CODE 7LE43	
				DWG. NO. 3000-0004-XX	
				REV E	
		FILENAME: 3000-0004-XX, MRX-7-XX Series Outline		SCALE: 1:1	
				RELEASE DATE: --	
				SHEET 2 OF 2	

DWG. NO. 3000-0004-XX
REV. E
ED: 04-25-24
BY: SN