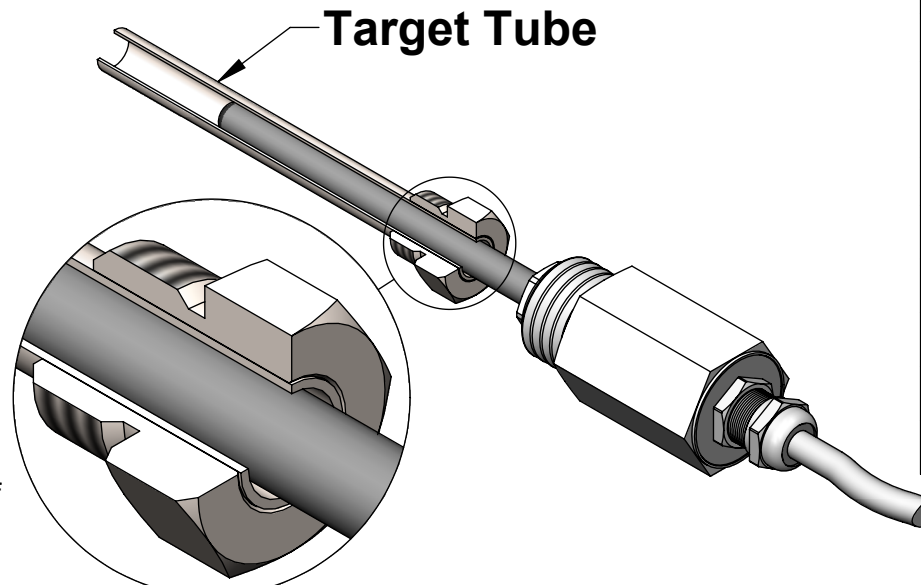


SPECIFICATIONS:

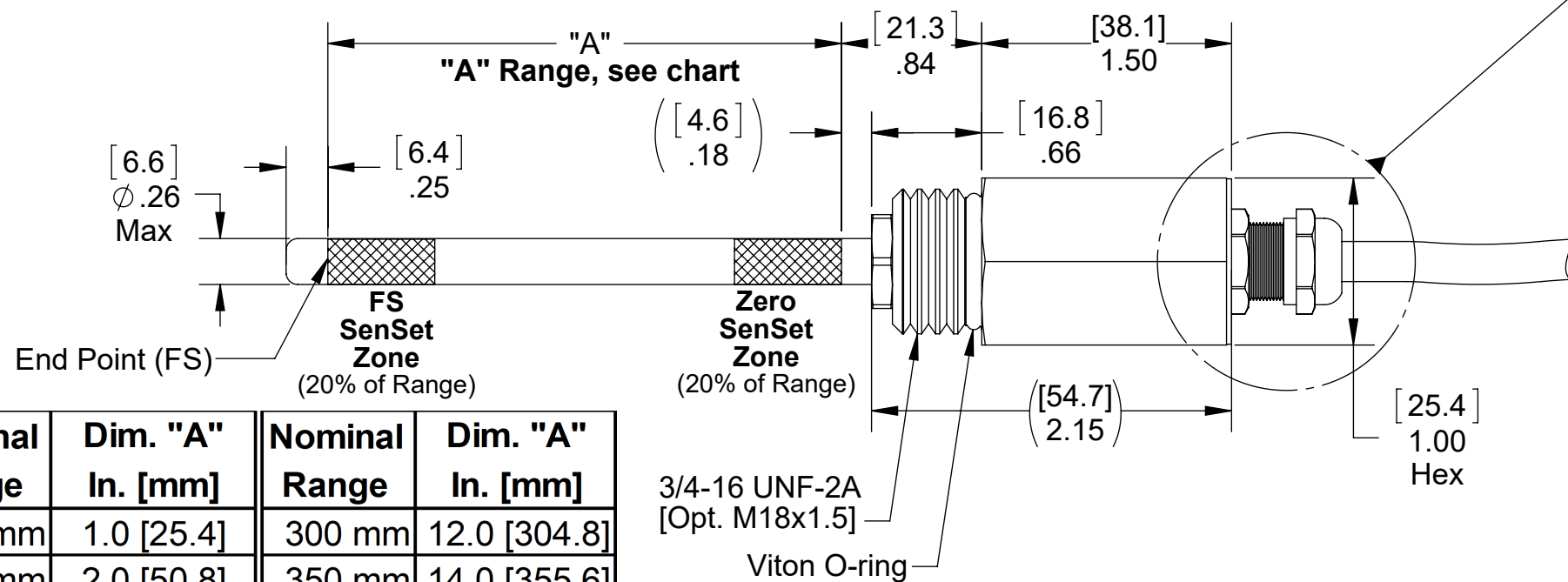
Analog I/Os: (See Note 1)
 0 - 5 V DC output, 8 - 30 V DC input, 35 mA max.
 0.5 - 4.5 V DC output, 8 - 30 V DC input, 35 mA max.
 0 - 10 V DC output, 12 - 30 V DC input, 35 mA max.
 4 - 20 mA DC output, 18 - 30 V DC input, 60 mA max. (75 C max.)
 Measuring Ranges: See range table
 Zero and Full Scale: 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.

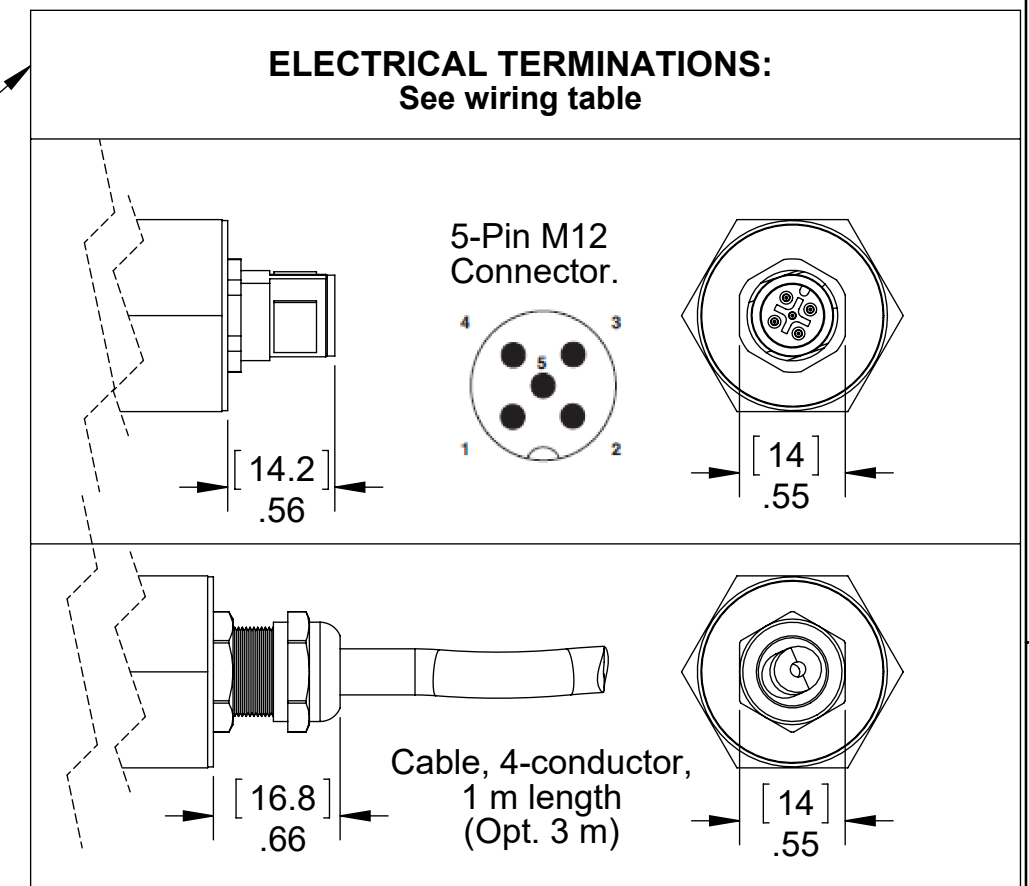
Specifications are subject to change without notice.



DETAIL A
SCALE 2 : 1



REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	Add Termination & Range tables, edit specs.	12-10-14	EH
B	Add mm dims, add Ordering Guide, edit specs	01-09-15	EH
C	Update Specifications to V2	02-02-15	EH
D	Update Termination configurations for shorter housing	04-20-15	EH
E	Change dim .84 [21.3] (was .94 [23.9]), add cable description.	01-04-16	EH
F	Edit dim Ø .26 (was .27), reference ECN 16-177	09-20-16	EH
G	Update Range Table	04-16-18	EH
H	Revised as per ECN 24-380	03-29-24	EH



NOTE:
Refer to Sheet 2 for details of target tube

MHPX-7-XX I/O Function	Conn. Pin	Cable Color
+ Power Input	1	Red
Ground	2	Black
Voltage Output	3	Green
Current Output	4	Green
SenSet™	5	White

Ordering Guide	
Model	Output
MHPE	Voltage
MHPI	Current

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: 10-23-14	
4. DEBURR/BREAK SHARP EDGES		ENGINEER: Ed Herceg	
5. DIMS ARE BEFORE FINISH		10-23-14	
6. (DATA) FOR REFERENCE ONLY		CHECKED BY: Ed Herceg	
TOLERANCES		10-23-14	
DECIMAL: .XX ±.010	FRACTIONAL: ±1/32	QA: --	
.XXX ±.005	ANGULAR: ±.5°	MFG: --	
THIRD ANGLE PROJECTION		APPROVED BY: --	
		--	

ALLIANCE SENSORS GROUP
 A DIVISION OF HG SCHAEVITZ LLC
 Pennsauken, New Jersey USA alliancesensors.com

MHPX-7 LVIT Series Assy
 Outline

SIZE: B	CAGE CODE: 7LE43	DWG. NO.: 3000-0018-XX	REV: H
FILENAME: 3000-0018, MHPX-7 series LVIT, Outline	SCALE: 1:1	RELEASE DATE: --	SHEET 1 OF 2

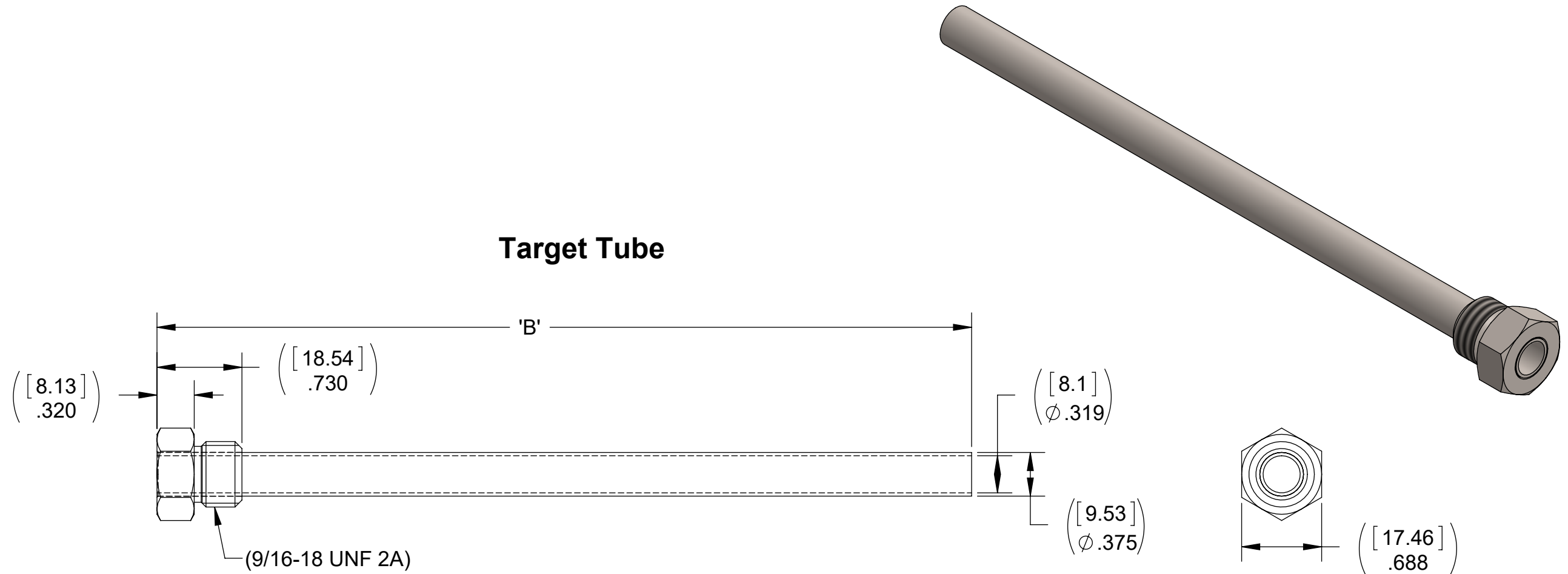
DWG. NO. 3000-0018-XX

REV. H

DATE: 04-25-24

SN

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

<small>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</small>		CONTRACT NO. --		ALLIANCE SENSORS GROUP A DIVISION OF HG SCHAEVITZ LLC Pennsauken, New Jersey USA alliancesensors.com	
<small>TOLERANCES</small> DECIMAL: ±.010 FRACTIONAL: ±1/32 XX ±.010 XXX ±.005 ANGULAR: ±.5°		DRAWN BY: G E Miller DATE: 10-23-14 ENGINEER: Ed Herceg CHECKED BY: Ed Herceg 10-23-14 QA: --			
<small>THIRD ANGLE PROJECTION</small> 		MFG: -- APPROVED BY: --		Hydraulic LVIT Target Tube for MHPX-7 LVIT Series Assy SIZE: B CAGE CODE: 7LE43 DWG. NO.: 3000-0018-XX REV: H FILENAME: 3000-0018, MHPX-7 series LVIT, Outline SCALE: 1:1 RELEASE DATE: -- SHEET 2 OF 2	

DWG. NO. 3000-0018-XX
REV. H
EDT. 04-25-24
BY: SN