



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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SPECIFICATIONS:

Analog I/Os: (See Note 1)

- 0 - 5 VDC output, 8 - 30 VDC input, 35mA max.
- 0.5 - 4.5 VDC output, 8 - 30 VDC input, 35mA max.
- 0 - 10 VDC output, 12 - 30 VDC input, 35mA max.
- 4 - 20 mA DC output, 18 - 30 VDC 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: -20 to 85 C (-40 to 105 C extended temp.)

Temperature coefficient: <±0.015% of FSO/K

Humidity: 95% RH non-condensing

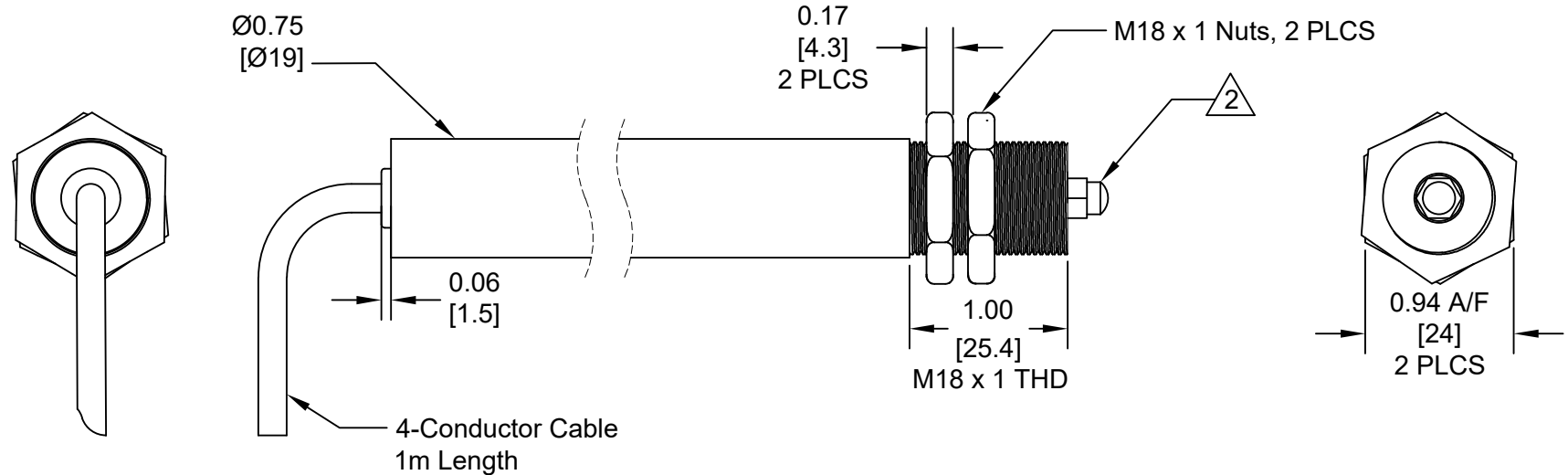
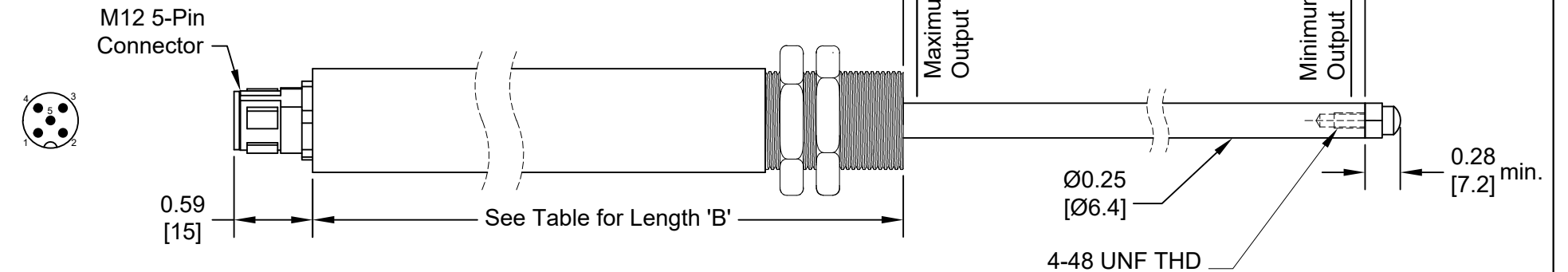
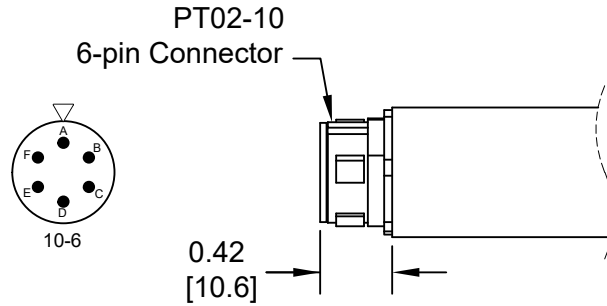
Shock: 1000 g, 11 msec.

Sealing: IEC IP-67

Notes:

1. Analog output is maximum with probe retracted; See technical data sheet to specify reversed output.
2. Sensor supplied with AGD #9 contact tip. (4-48 UNF THD)
3. Specifications are subject to change without notice. Please contact Alliance Sensors for the most up to date information.

REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
--	Initial Release	05-07-15	EH
A	Added PT02-10 6-pin connector, updated connection table, added view of M12 5-pin connector, modified Range Table & displayed 4-48 UNF THD	07-29-15	EH
B	Refer: ECN 16-154	02-24-16	EH
C	Range table modified	06-08-16	EH
D	M18 x 1 Thread length reduced to 1.00	07-26-16	EH



'A' Nominal Range	'B' Body Length	Spring Rate	Max. Force
inches [mm]	inches [mm]	Lbf/in [kgf/cm]	Lbf [kgf]
0.5 [12.7]	3.50 [88.9]	0.75 [0.134]	0.9 [0.41]
1.0 [25.4]	4.00 [101.6]	0.75 [0.134]	0.9 [0.41]
2.0 [50.8]	5.08 [129.0]	0.43 [0.077]	1.0 [0.45]
3.0 [76.2]	6.16 [156.5]	0.30 [0.054]	1.0 [0.45]
4.0 [101.6]	7.25 [184.1]	0.23 [0.041]	1.0 [0.45]

LRS-18-A Electrical Connections Table			
I/O Function	M12 Pin	PT02-10 Pin	Cable Color
+DC Power Input	1	E	Red
Common Ground	2	D	Black
Voltage Output	3	A	Green
Current Output	4		
SenSet™	5	B	White

UNLESS OTHERWISE SPECIFIED:		CONTRACT NO.	
1. DO NOT SCALE DRAWING		--	
2. DIMENSIONS ARE IN INCHES		DRAWN BY: D McCauley	
3. INTERPRET DIM/TOL PER ANSI Y14.5M-1994		DATE: 05-07-15	
4. DEBURR/BREAK SHARP EDGES		ENGINEER: Ed Herceg	
5. DIMS ARE BEFORE FINISH		CHECKED BY: --	
6. (DATA) FOR REFERENCE ONLY		QA: --	
TOLERANCES		MFG: --	
DECIMAL: X ±.020	ANGULAR: ±.5°	APPROVED BY: --	
XX ±.010			
XXX ±.005			
THIRD ANGLE PROJECTION			

ALLIANCE SENSORS GROUP
A DIVISION OF H. G. SCHAEVITZ LLC

Moorestown, New Jersey USA alliancesensors.com

LRS-18 Series LVIT, M18 x 1 thread
Outline Drawing

SIZE: B	CAGE CODE: N/A	DWG. NO.: 3000-0021-XX-1Y	REV: D
FILENAME: 3900-0021-XX-1Y_LRS-18 Series LVIT, M18 x 1 thread_Outline	SCALE: 1:1	RELEASE DATE: 05-07-15	SHEET 1 OF 1

DWG. NO. 3000-0021-XX-1Y REV. D LAST 07-26-16 BY: S.P.