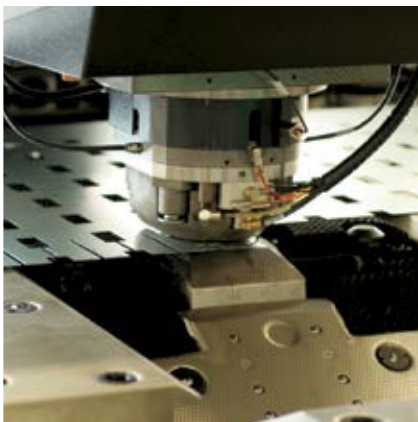
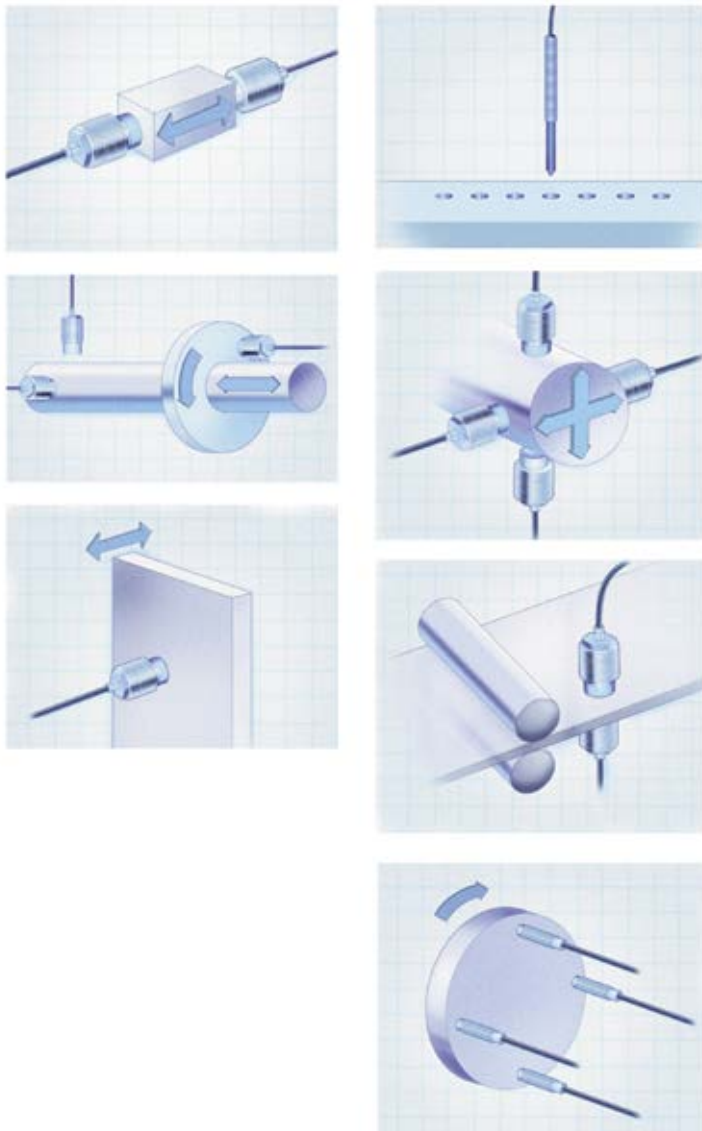


## Sensor Family

Advanced family of high-precision position sensors using Eddy Current Technology

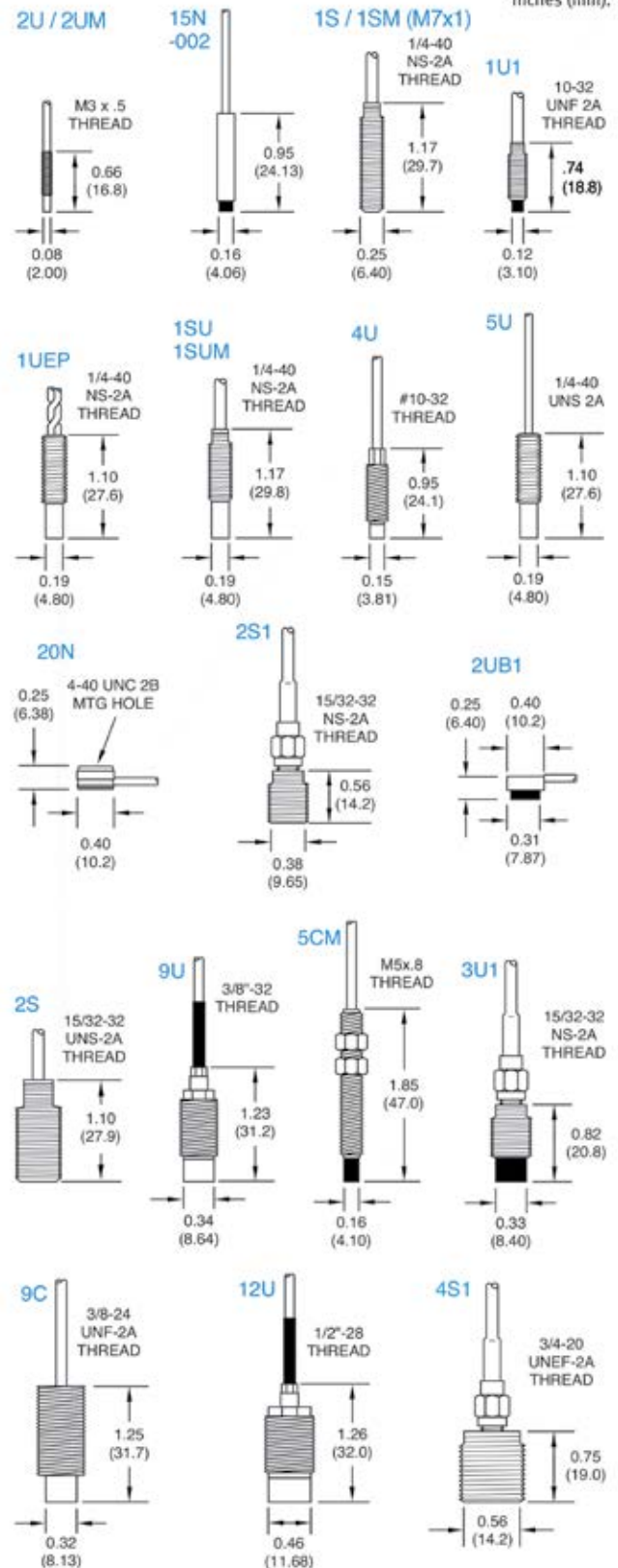


Let us help you choose the best sensor, conditioning electronics and calibration for your application.



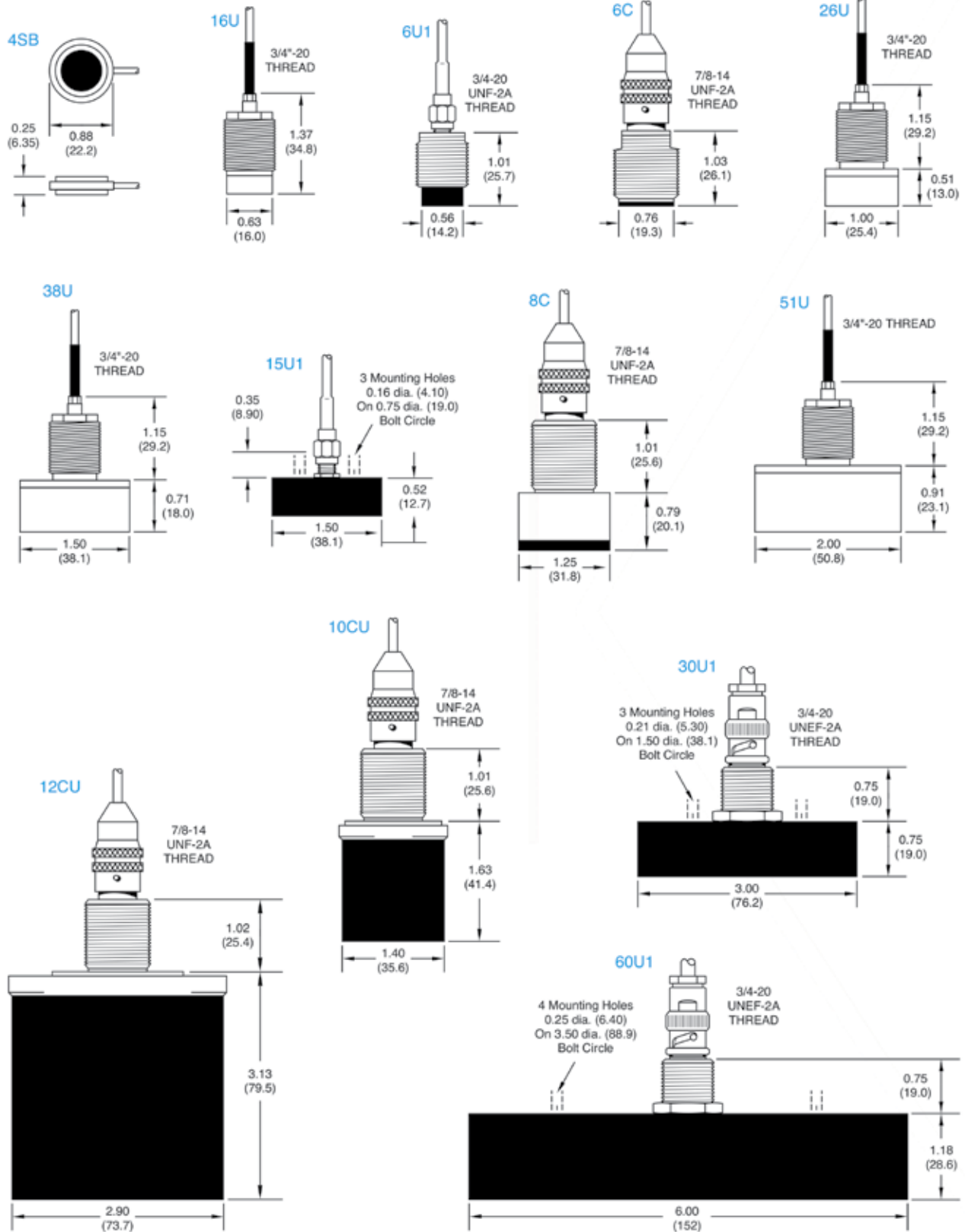
## SENSORS (shown at 50%)

Note: All dimensions shown in inches (mm).



## SENSORS (shown at 50%)

Note: All dimensions shown in inches (mm).



# Sensor Family

## TYPICAL SPECIFICATIONS

## SIGNAL CONDITIONING ELECTRONICS

SENSOR	STANDARD RANGE		TARGET MATERIAL		STATIC RESOLUTION		NOTES	SIGNAL CONDITIONING ELECTRONICS				
	mil	mm	non-mag	magnetic	μ in	μ m		KD-2306 / KDM-8206	KD-2446	KD-5100 / DIT-5200L	SMT-9700	dig/VIT
2UM	20	0.5		√	4	0.1	1, 5	√				
2U	20	0.5	√				1, 5		√		√	√
15N	35	0.9	√				1			√	√	
1S	40	1.0	√		4	0.1	1	√				
1SM	40	1.0		√	4	0.1	1, 5	√				
1U1	40	1.0	√		4	0.1	1, 5	√			√	
1UEP	40	1.0		√	4	0.1	2	√				
1SU	50	1.3	√		5	0.12	1	√				
1SUM	50	1.3		√	5	0.12	1	√				
4U	50	1.3	√				1				√	√
5U	50	1.3	√				1, 5, 8				√	
20N	75	1.9	√				1			√	√	
2S1	80	2.0	√	√	8	0.2	1	√				
2UB1	80	2.0	√	√	8	0.2	1	√				
2S	100	2.5	√	√	10	0.25	1, 5	√				
9U	100	2.5	√				2, 8				√	√
5CM	115	2.9	√	√	10	0.25	2		√			
3U1	120	3.0	√		12	0.3	1	√			√	
9C	150	3.8	√	√			2		√			
12U	160	4.0	√	√			2, 8		√		√	√
4S1	160	4.0	√	√	16	0.4	1	√				
4SB	160	4.0	√	√	16	0.4	1	√				
16U	200	5.0	√	√			2, 8		√		√	√
6U1	240	6.0	√	√	24	0.6	1	√			√	
6C	250	6.4	√	√	25	0.62	1, 5	√				
26U	320	8.1	√	√			2, 8		√		√	√
38U	500	12.7	√	√			2, 8		√		√	√
8C	500	12.7	√	√	50	1.25	1, 5	√				
15U1	600	15.0	√	√	60	1.5	1	√			√	
51U	600	15.0	√	√			2, 8		√		√	√
10CU	1000	25.4	√	√	100	2.5	1	√				
30U1	1200	30.0	√	√	120	3.0	1				√	
12CU	2000	50.8	√	√	200	5.0	1	√				
60U1	2400	60.0	√	√	240	6.0	1	√			√	

Notes:

1. Temperature Range 1: -67 to +220°F (-55 to +105°C)
2. Temperature Range 2: -320 to +400°F (-196 to +204°C)
3. Resolution is dependent upon electronics selected. Contact Kaman where value is not shown.
4. Most sensor ranges may be extended up to 50%, but performance will vary. Contact Kaman.
5. Moderate Temperature (200°C) versions available
6. Measuring Range can vary depending on signal conditioner
7. Other sensors/signal conditioner combinations available
8. IP67 type versions available on request

## Signal Conditioning Electronics

### KD-2306

- ❖ Single channel unit for general purpose applications
- ❖ Linear analog voltage and current outputs
- ❖ DIN Rail packaging



### KDM-8206

- ❖ Multi-channel measuring modules for industrial applications
- ❖ Linear analog voltage and current outputs
- ❖ 3U/7T Eurocard packaging
- ❖ Rack, and NEMA enclosures available



### KD-2446

- ❖ Low cost single channel unit for general purpose applications
- ❖ Analog voltage output
- ❖ DIN Rail packaging



### digiVIT

- ❖ Self-configuring single channel unit with display
- ❖ for general purpose and industrial applications
- ❖ Microprocessor controlled
- ❖ DIN Rail packaging



### KD-5100

- ❖ Dual channel Differential analog unit
- ❖ Constructed to Mil quality requirements for aerospace applications



### DIT-5200L

- ❖ Dual channel Differential analog unit
- ❖ For commercial applications requiring high resolution



### SMT-9700

- ❖ High Resolution OEM analog unit
- ❖ Uniquely configured for specific applications
- ❖ 1, 2, or 3 channel configurations



See individual Data Sheets for detailed performance specifications

## Why Kaman?

**Experience.** Kaman Precision Products | Measuring has over 40 years of experience with non-contact position measurement techniques. We bring you the best in advanced sensor technology and signal conditioning electronics.

**Custom systems.** We specialize in custom solutions to difficult problems, and we'll work with you to develop a system for your particular application.

**Advanced technology.** Kaman's sensors are based on eddy current technology, providing measurements that are

- ❖ stable and repeatable;
- ❖ ideal for conductive materials;
- ❖ unaffected by most contaminants;
- ❖ resistant to harsh environments.

## Specialized Sensors Systems from Kaman

### Extreme Environment

- ❖ For when no other sensor will survive and perform
- ❖ Temperatures from -320 to +1,000°F (-196 to +538°C)
- ❖ Pressures to 5,000 psi
- ❖ Radiation & chemically resistant sensors
- ❖ Eurocard & NEMA electronics packaging



### ThreadChecker

- ❖ Checks thread presence/absence or discriminates between any two conditions
- ❖ Microprocessor controlled
- ❖ DIN Rail and panel mounting



## Accessories from Kaman - Calibration fixtures and power supplies



Ceramic calibration spacers



P-3600D24 Power Supply



Micrometer calibration fixture

ISO 9001:2008

800-552-6267 | [kamansensors.com](http://kamansensors.com) | [measuring@kaman.com](mailto:measuring@kaman.com)