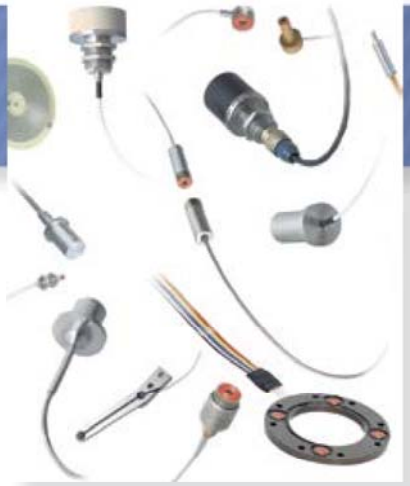
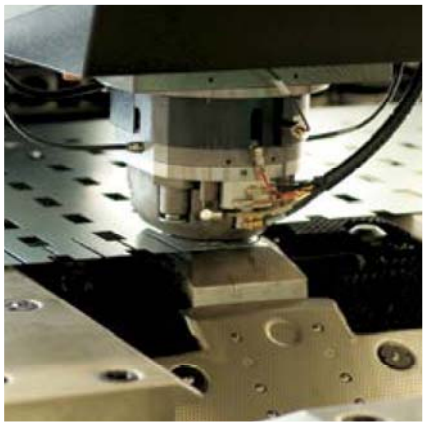
SENSOR DATA SHEET



Sensor Family

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



800-552-6267
kamansensors.com
measuring@kaman.com

CE Pb

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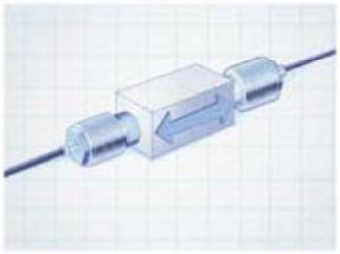
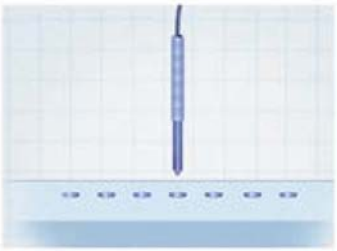
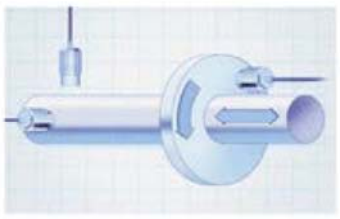
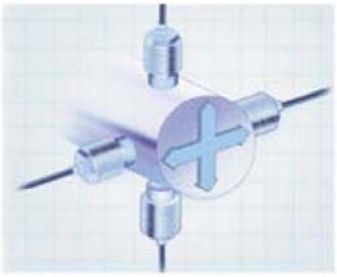
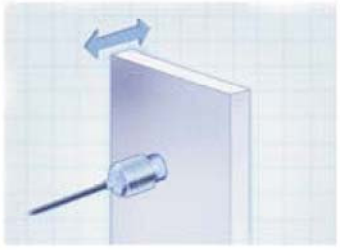
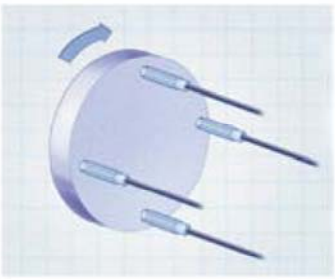
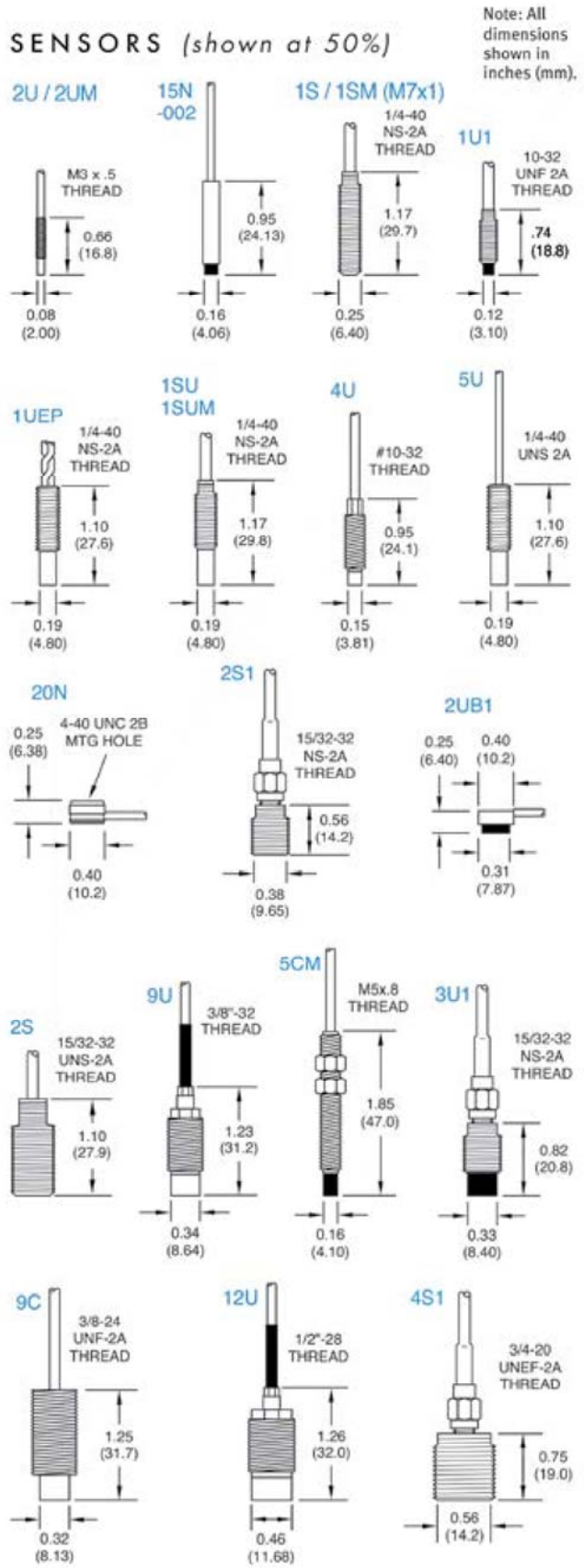
Let us help you choose the best sensor, conditioning electronics and calibration for your application.





Sensor Family

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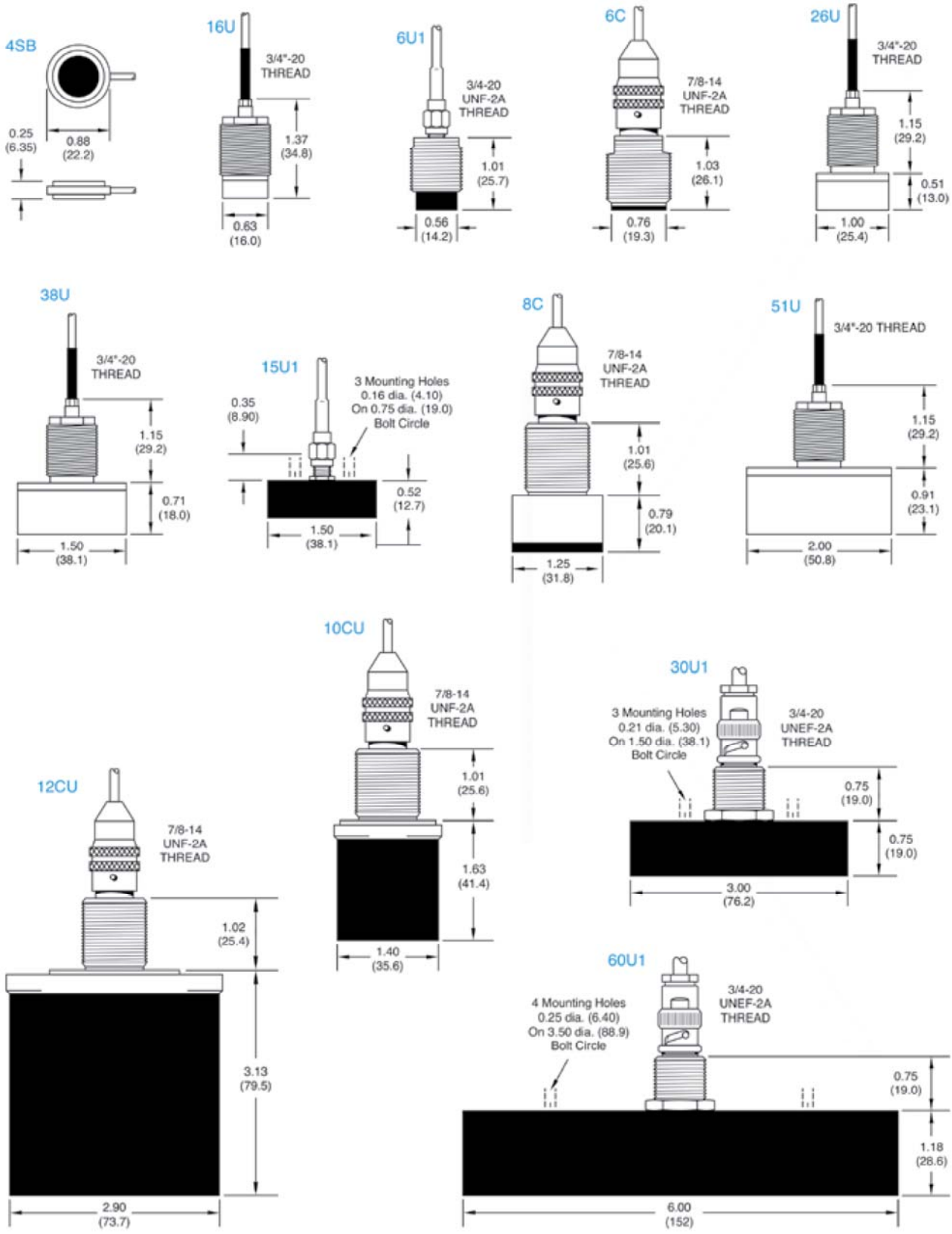
SENSORS *(shown at 50%)*

Note: All dimensions shown in inches (mm).



Sensor Family

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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	digiVIT	
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

Sensor Family

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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

Sensor Family

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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 | measuring@kaman.com