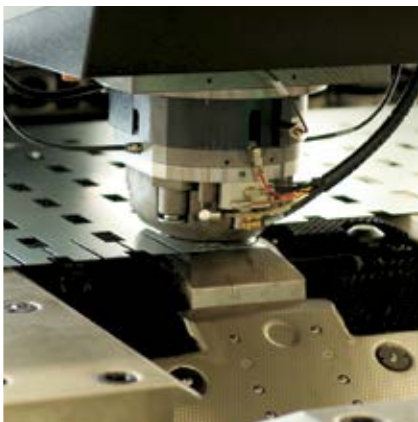
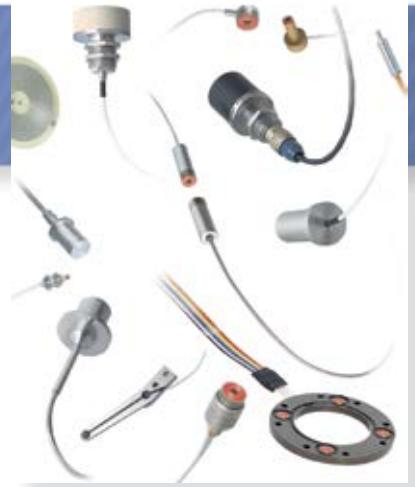


Sensor Family

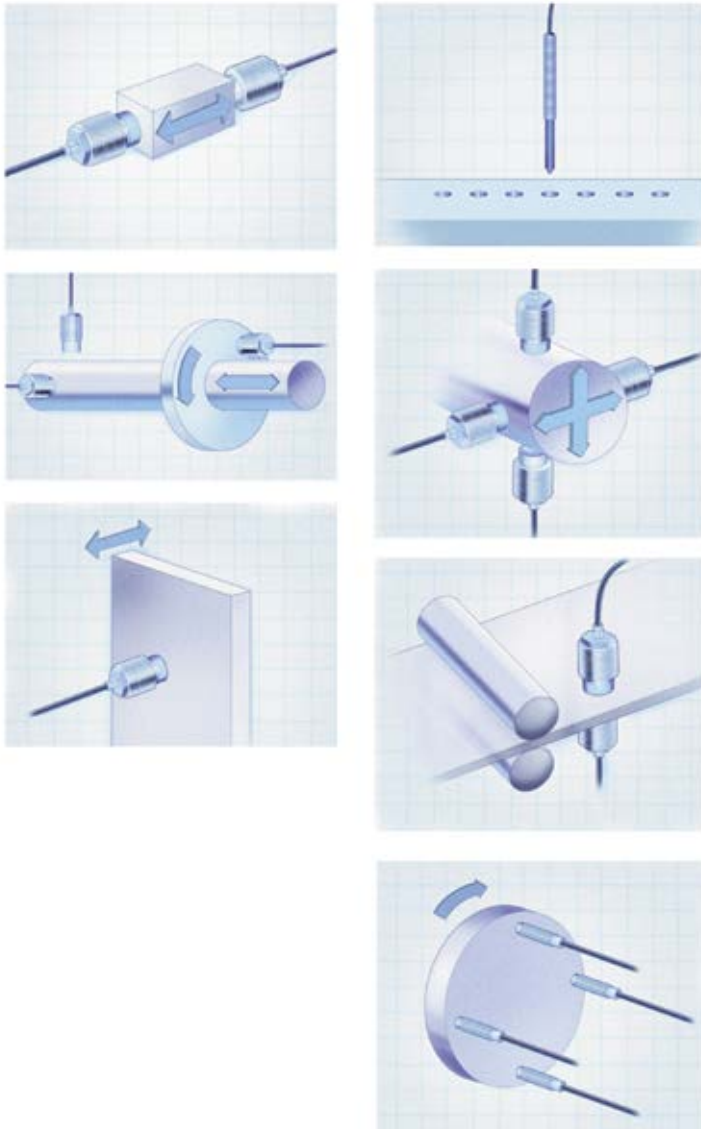
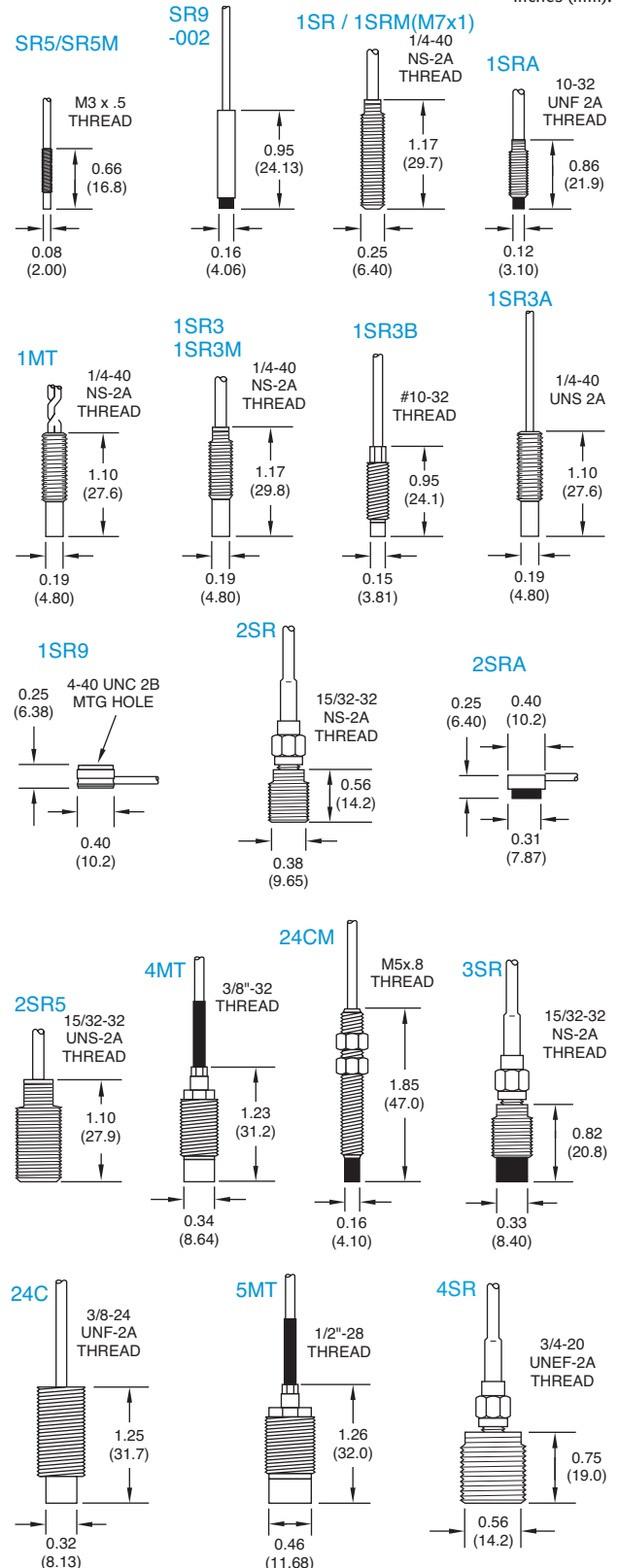
Advanced family of high-precision
position sensors using
Eddy Current Technology



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

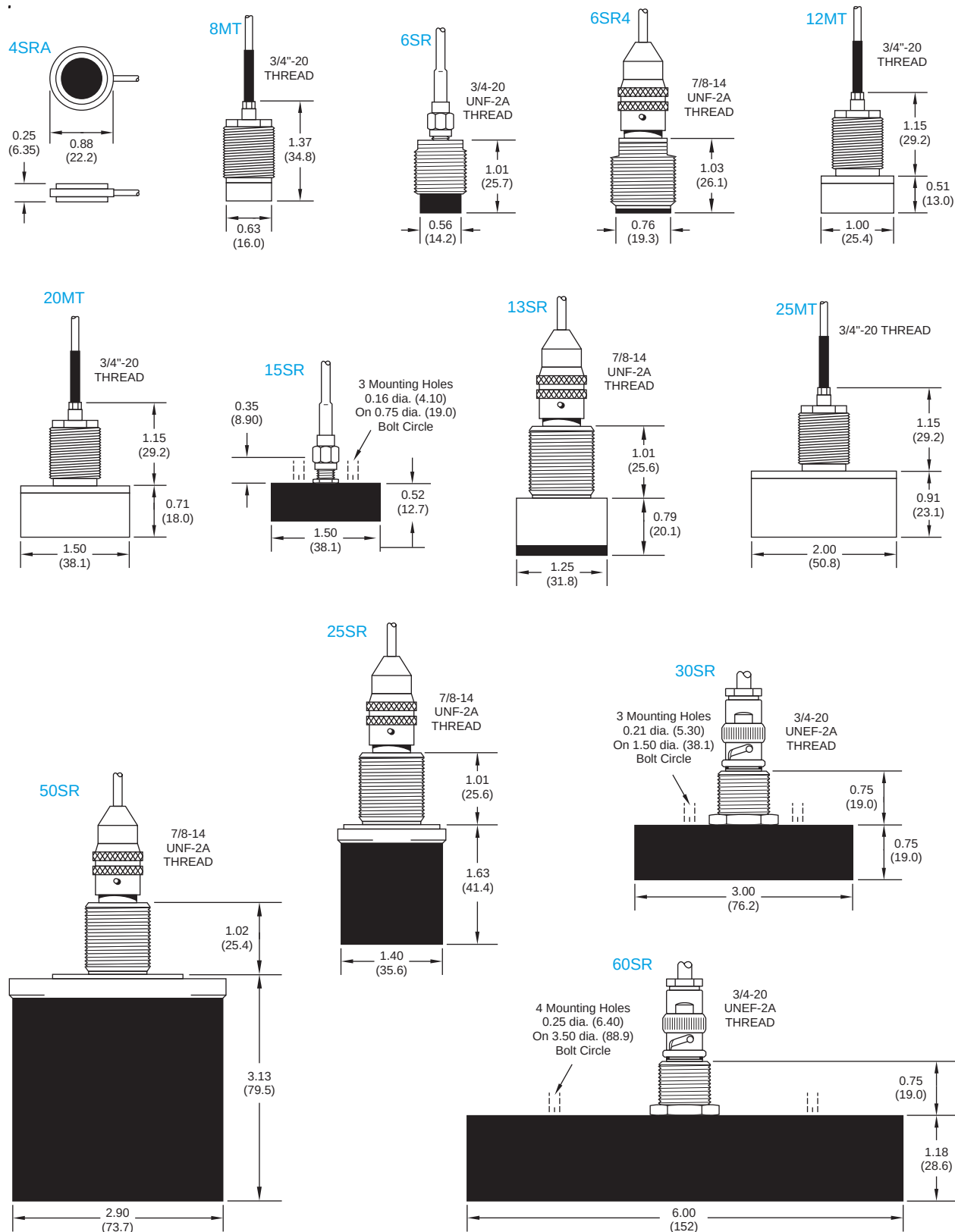
SENSORS (shown at 50%)

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	ZED23/ZED82	ZED24	ZED51/ZED52	ZED97	ZDG62
	mil	mm	non-mag	magnetic	μ in	μ m						
SR5M	20	0.5		✓	4	0.1	1,5	✓				
SR5	20	0.5	✓				1,5		✓		✓	✓
SR9	35	0.9	✓				1			✓	✓	
1SR	40	1.0	✓		4	0.1	1	✓				
1SRM	40	1.0		✓	4	0.1	1,5	✓				
1SRA	40	1.0	✓		4	0.1	1,5	✓			✓	
1MT	40	1.0		✓	4	0.1	2	✓				
1SR3	50	1.3	✓		5	0.12	1	✓				
1SR3M	50	1.3		✓	5	0.12	1	✓				
1SR3B	50	1.3	✓				1				✓	✓
1SR3A	50	1.3	✓				1,5,8				✓	
1SR9	75	1.9	✓				1			✓	✓	
2SR	80	2.0	✓	✓	8	0.2	1	✓				
2SRA	80	2.0	✓	✓	8	0.2	1	✓				
2SR5	100	2.5	✓	✓	10	0.25	1,5	✓				
4MT	100	2.5	✓				2,8				✓	✓
24CM	115	2.9	✓	✓	10	0.25	2		✓			
3SR	120	3.0	✓		12	0.3	1	✓			✓	
24C	150	3.8	✓	✓			2		✓			
5MT	160	4.0	✓	✓			2,8		✓		✓	✓
4SR	160	4.0	✓	✓	16	0.4	1	✓				
4SRA	160	4.0	✓	✓	16	0.4	1	✓				
8MT	200	5.0	✓	✓			2,8		✓		✓	✓
6SR	240	6.0	✓	✓	24	0.6	1	✓			✓	
6SR4	250	6.4	✓	✓	25	0.62	1,5	✓				
12MT	320	8.1	✓	✓			2,8		✓		✓	✓
20MT	500	12.7	✓	✓			2,8		✓		✓	✓
13SR	500	12.7	✓	✓	50	1.25	1,5	✓				
15SR	600	15.0	✓	✓	60	1.5	1	✓			✓	
25MT	600	15.0	✓	✓			2,8		✓		✓	✓
25SR	1000	25.4	✓	✓	100	2.5	1	✓				
30SR	1200	30.0	✓	✓	120	3.0	1				✓	
50SR	2000	50.8	✓	✓	200	5.0	1	✓				
60SR	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 ZSY where value is not shown.
4. Most sensor ranges may be extended up to 50%, but performance will vary. Contact ZSY.
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



Signal Conditioning Electronics

ZED23

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



ZED82

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



ZED24

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



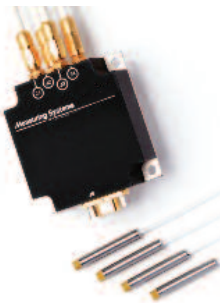
ZDG62

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



ZED51

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



ZED52L

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



ZED97

- ❖ 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 ZSY?

Experience. ZSY 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. ZSY'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 ZSY

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



ZTC60

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



Accessories from ZSY - Calibration fixtures and power supplies



Ceramic calibration spacers



P-3600D24 Power Supply



Micrometer calibration fixture

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