

Sensorex®

# Metrology gauge heads SX8MM



The Meggitt (Sensorex) SX8MM combines a high accuracy mechanics with an inductive sensor to enable measurements at a maximum frequency of 60 Hz with nearly 20 million cycles.

Gauge heads are delivered with 2 meter polyurethane axial or radial cable with DIN connector.

At the other end, the sensor has a measuring insert with a rolling bearing (3mm diameter).

The waterproofing and dust proofing of the measuring spindle guide is provided thanks to a protective rubber.

This sensor is an AC/AC LVDT; it has to be used with a conditioning unit model SX3120, SX9130...

All our signal conditioners are detailed in chapter “electronic conditioners”.

## Characteristics

- Rolling bearing
- Guided and protected measuring spindle
- Axial or radial cable output
- Excellent repeatability
- Accessories (measuring inserts)

## Applications

- Test benches
- Metrology

Meggitt Sensing Systems

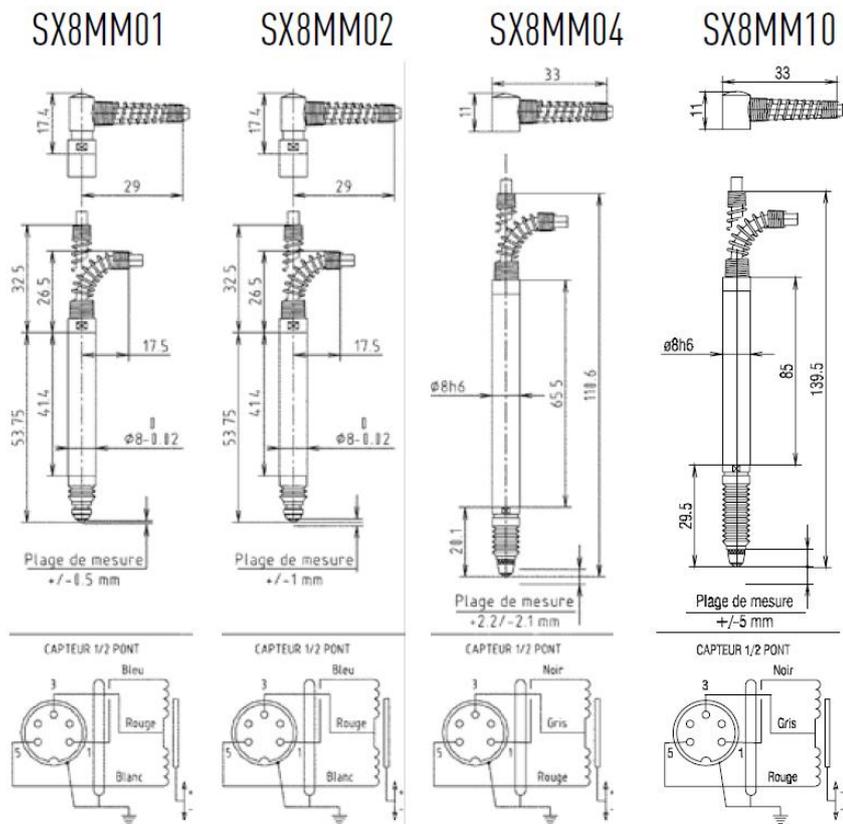
Our measurement product competencies:  
LVDTs | Inertial systems | Inclinoimeters | Accelerometers | IMU |  
MEMS sensors | Servo-inclinometer | Conditioners

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smart engineering for  
extreme environments

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### General specifications at +25°C

Electrical stroke (mm)	±0.5	±1	±2	±5
Mechanical stroke (mm)	2.1	2.1	4.3	10.3
Non linearity (% of FS)	±0.25%	±0.25%	±0.25%	±0.25%
Accuracy (micron)	±0.2	±0.1	±0.01	±0.05
Force (at zero position) (N)	0.6	0.6	0.63	0.9
Operating temperature	0°C to 60°C	0°C to 60°C	-10°C to 65°C	-10°C to 65°C
Relative humidity (%)	80	80	80	80
Protection	IP63	IP63	IP65	IP65
Sensitivity (mV/V/mm) ±10% 5kHz	83	83	83	46
Zero thermal drift (micron/°C)	±0.5	±0.5	±0.2	±0.09
Sensitivity thermal drift (ppm/°C)	±500	±500	±50	±50
Pressure	Spring	Spring	Spring	Spring

### Contact

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### Selection guide

Electrical stroke (mm)	Designation	Product reference
±0.5mm	SX8MM01	691410030
±1mm	SX8MM02	691410017
±2mm	SX8MM04	691090162
±5mm	SX8MM10	691090164

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