

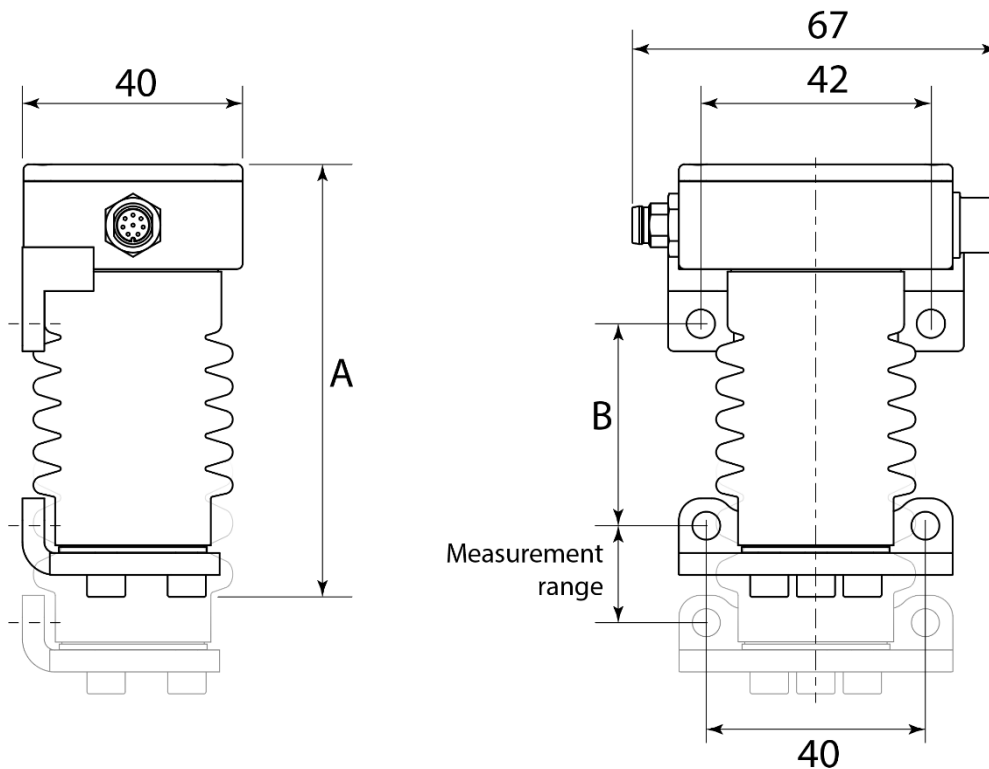


ElastiSense

The EDS series contains a range of robust and resilient displacement sensor variants based on the ground breaking new Electro-Active Polymer (EAP) technology. Being capacitive and highly elastic, the EAP technology provides a unique combination of precision and robustness for displacement sensing.

The transducer element of the sensor is made only from elastomers and operates by being stretched.

The output of the sensor is linearly proportional to the displacement irrespective of the measurement range and frequency.



Specifications

| Model | EDS25 | EDS50 | EDS100 | EDS250 | EDS500 | EDS1000 |
|------------------------|---|-------|--------|--------|--------|---------|
| Measurement range (mm) | 25 | 50 | 100 | 250 | 500 | 1000 |
| Power supply | 24V | | | | | |
| Analogue output | 4 – 20mA (0 – 5V or 0 – 10V available as options) | | | | | |
| Digital output | Floating point value transmitted on full duplex RS485 network | | | | | |
| Absolute accuracy | 0.1% Full Scale | | | | | |
| Repeatability | 0.01% Full Scale | | | | | |
| Update rate | 10kHz maximum | | | | | |
| Operating temperature | -30°C to 80°C | | | | | |
| Operating humidity | 5%RH to 95%RH | | | | | |
| Ingress protection | IP65 | | | | | |
| Dimension A (mm) | 79 | 104 | 154 | 304 | 554 | 1054 |
| Dimension B (mm) | 37 | 62 | 112 | 262 | 512 | 1012 |