

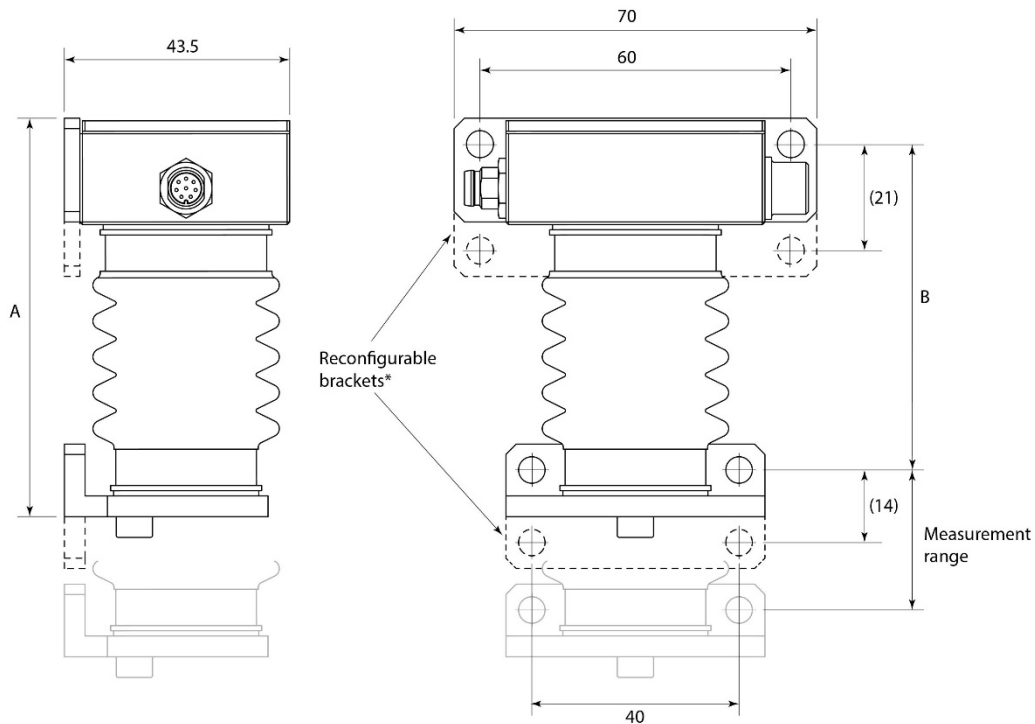
ElastiSense

Datasheet – EDS Series - Displacement Sensors



Our displacement sensor may either be used as a standalone unit or as a part of a system together with other daisy chained sensors. In standalone mode the sensor requires 24VDC supply and outputs an analogue current in the range of 4-20mA. The output signal is linearly proportional to the displacement such that 4mA corresponds to 0mm and 20mA represents the maximum displacement of the sensor.

The flexible nature of the sensors enables off-axis displacements measurements in all three directions. Contact us for more information.



| Model | EDS20 | EDS50 | EDS100 | EDS200 |
|-------------------------|--------------------------------------------------------------|-------|--------|--------|
| Measurement range (mm) | 20 | 50 | 100 | 200 |
| Power supply | 24V DC | | | |
| Analogue output | 4 – 20mA (1 – 5V or 2 – 10V on request) | | | |
| Digital output | Integer value in nm transmitted on full duplex RS485 network | | | |
| Absolute accuracy | 0.1% Full Scale | | | |
| Temperature Coefficient | < 0.01 % FS / °C | | | |
| Power consumption | < 100mA | | | |
| Update rate | Up to 10k samples/second | | | |
| Operating temperature | -20°C to 80°C (Other ranges on request) | | | |
| Operating humidity | 5%RH to 80%RH | | | |
| Ingress protection | IP63 (Higher available on request) | | | |
| Dimension A (mm) | 77 | 116 | 185 | 315 |
| Dimension B (mm) | 63 | 102 | 171 | 301 |