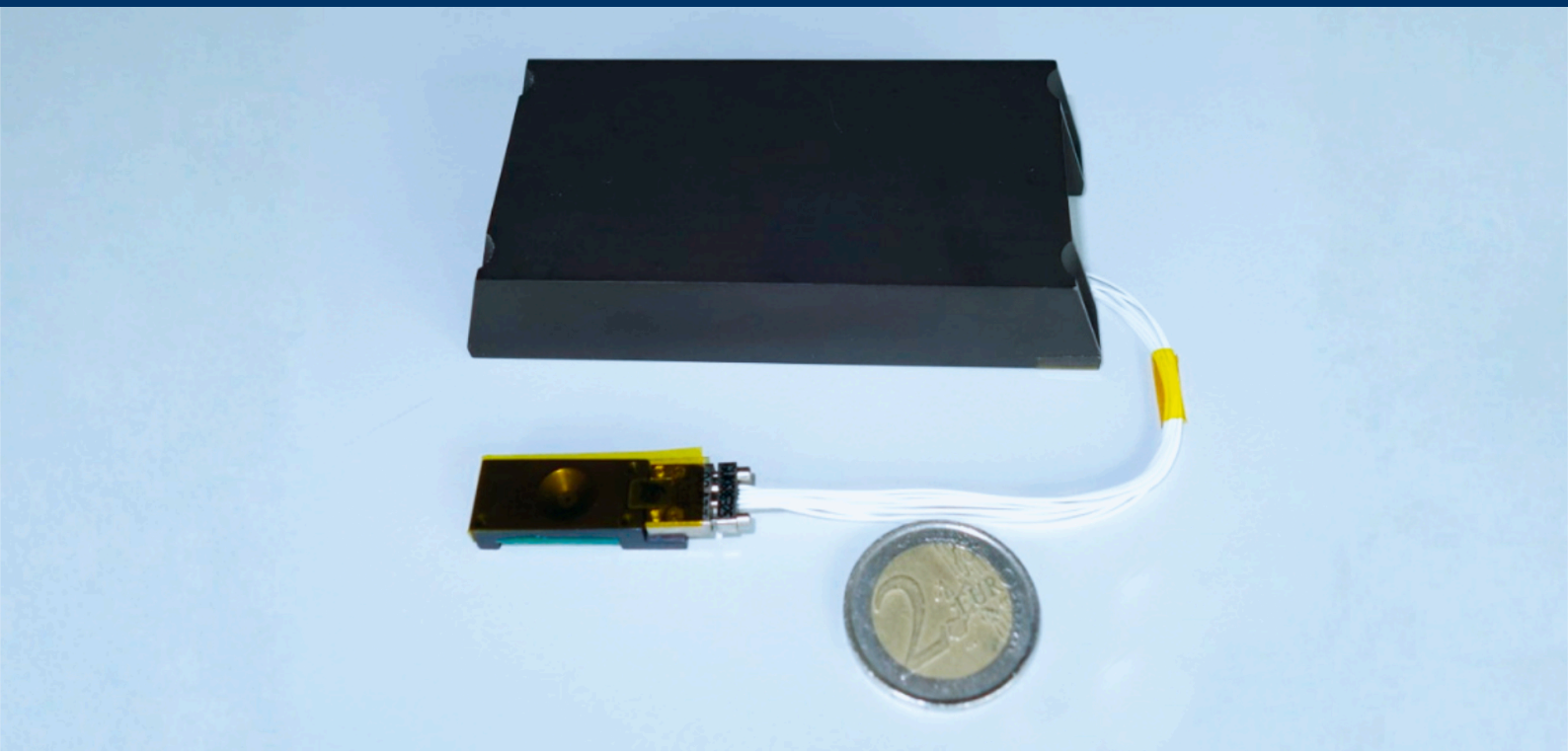


FINE SUN SENSOR ASSEMBLY

The Fine Sun Sensor Assembly (FSSA-110) by Berlin Space Technologies hosts up to three fine sun sensors. It is the second generation of our flight-proven FSSA-100 with only minor modifications to it. The FSSA-110 can be placed in remote locations of the spacecraft platform and reports the sun vector back to the OBC. The FOV of one sensor reaches up to 114°. In order to sense the sun in all directions, two units are required.

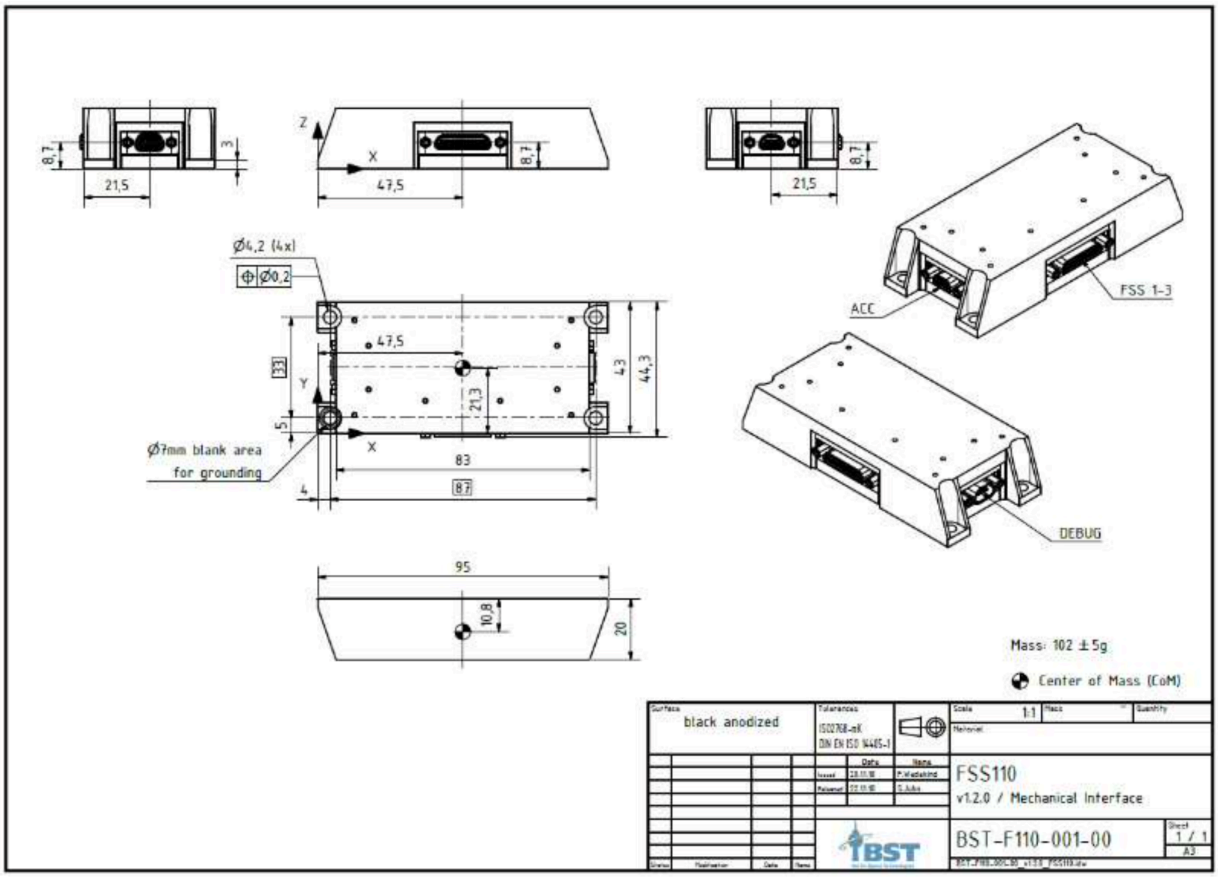
Technical specifications can be found on the next pages.

FURTHER INFORMATION: Max-Planck-Str. 3 12489 Berlin, Germany I info@berlin-space-tech.com
www.berlin-space-tech.com

TECHNICAL SPECIFICATIONS

CHARACTERISTICS

Operational Voltage	5 V ± 0.5 V
Power Consumption	185 mW
Accuracy	5°
Update Rate	10 Hz
Coverage	Hemispherical
Main Interface	RS422
Sun Sensor Interface	5x analogue channels / sensor
Mass	With 3x sensors: 102 g ± 5 g
	Without sensors: 87 g ± 5 g
Dimensions	95 x 44 x 20 mm
Operational Temperature Range	-15°C to +40°C
Radiation Tolerance	> 20 krad



Mechanical Interface