

Mini I/O Float Unit

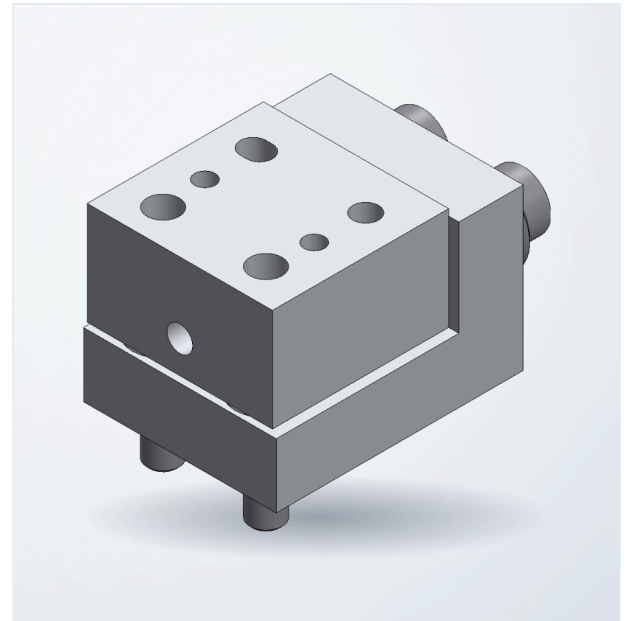
MEC-3932

The **MEC-3932** float unit provides a spring-loaded floating mount for a Bluelec Mini I/O test connector in the test fixture. It compensates for possible misalignment between the test-system mechanics and the DUT socket, enabling smooth, low-stress insertion of the test connector.

The test connector is mounted on the floating part and positioned by dowel pins. The fixed part is bolted to the test mechanics. By default, the floating part is centered at position '0' on all axes; Z-axis displacement enables movement in the X and Y directions.

Designed for automated and semi-automated production test fixtures.

! During installation, support the floating part with a 0.5 mm plate to prevent it from bending downward.



SPECIFICATIONS

Displacement, Z max	+0.0 / -0.5 mm
Displacement, X max @ Z max	±0.3 mm
Displacement, Y max @ Z max	±0.3 mm
Spring force F @ Z ₀	~10 N
Spring force F @ Z max	~14.5 N
Operating temperature	0 – 60 °C
Storage temperature	-20 ... +70 °C
Relative humidity	15 – 95 % non-condensing
Compliance	RoHS

MOUNTING

Fastening, bottom side	2× M2.5 hex socket screw
Locating	2× Ø2 mm (Ø0.08 in) dowel pin (m6)
Thread depth in mechanics	M2.5, min. 4 mm (0.16 in)
Dowel hole depth in mechanics	Ø2 mm (Ø0.08 in), min. 3 mm (0.12 in)

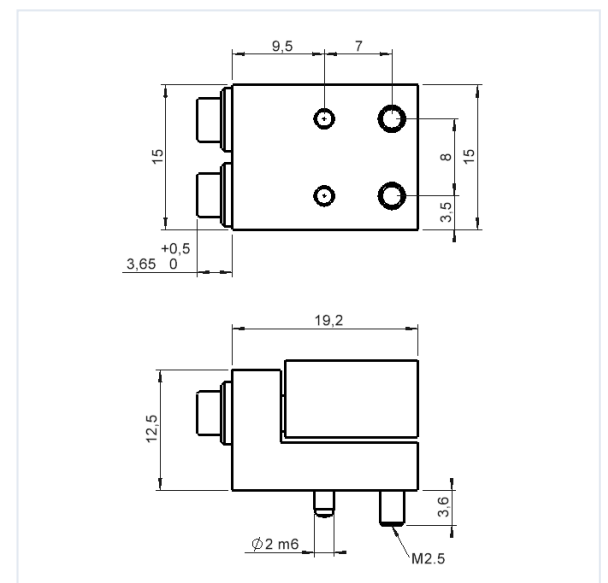
COMPATIBLE TEST CONNECTOR

TCO-3897 Mini I/O Test Connector

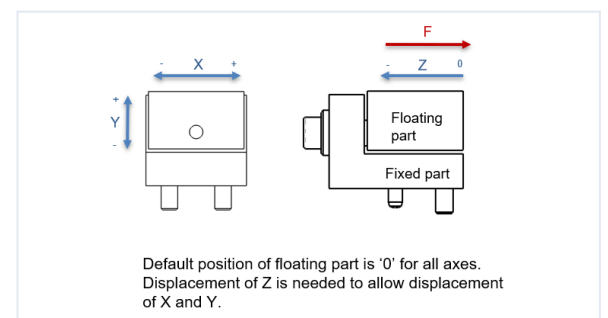
Refer to the 3D model for exact hole and thread position relationships. Sold separately from the test connector.

DIMENSIONS

mm



OPERATING PRINCIPLE



3D CAD models available on request via sales@bluelec.com