FLOAT UNIT · DATASHEET

USB Mini-B Float Unit

MA091628

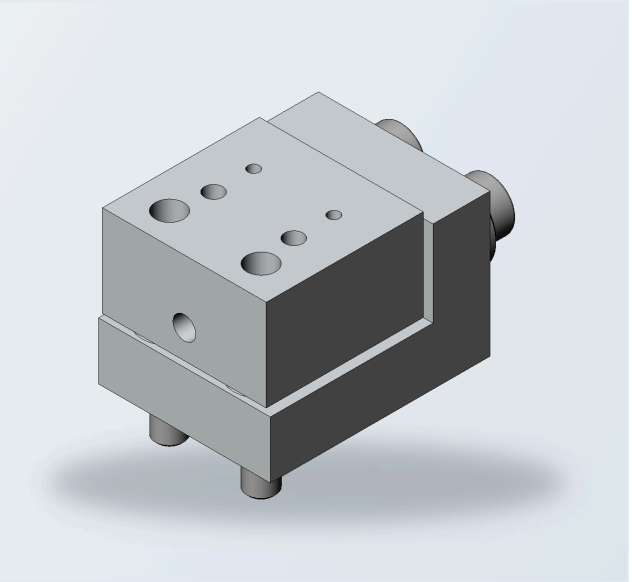
BLUELEC
Part of JOT Automation

The **MA091628** float unit provides a spring-loaded floating mount for a Bluelec USB Mini-B 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**

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)**

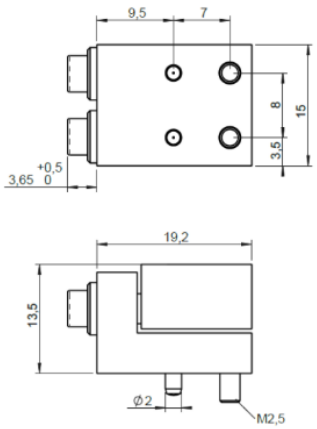
COMPATIBLE TEST CONNECTORS

MA090828 USB Mini-B Test Connector

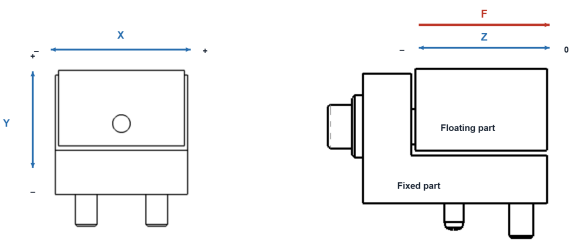
Sold separately from the test connector.

DIMENSIONS

mm



OPERATING PRINCIPLE



ENVIRONMENTAL

Operating temperature	**0 – 60 °C**	Relative humidity	**15 – 95 % non-condensing**
Storage temperature	**−20 … +70 °C**	Compliance	**RoHS**

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

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Specifications subject to change without notice.