AMERICAN WELDQUIP ARCSAFE™ COLLISION SENSORS

The ArcSafe™ and ArcSafe™-SW Provide The Maximum Collision Protection In Robotic Applications

The **ArcSafe™** utilizes an integrated switch designed to prevent damage to the robotic end of arm equipment and/or tooling. In the event of a crash the **ArcSafe™** signals an E-Stop function of the robot, shutting down the system and avoiding costly damage to the torch, robot or production line components.

The **ArcSafe™-SW** is specifically designed for use where crash protection is integrated into the robotic software package. Most integrated robotic collision detection software systems take time to come to a complete stop - especially with high speed movements. This is where the **ArcSafe™-SW** offers additional protection over solid mount devices. The 20 degree deflection feature incorporated into the **ArcSafe™-SW** provide additional protection over other solid mount type devices. This additional safe guard provides the extra protection required to reduce or eliminate bent goosenecks, cracked insulating disks and damaged tooling.

The **ArcSafe™ Solid Mount** is for use with robotic systems with software crash protection. The solid mount provides the nessessary connection between the robot wrist and the torch. Available in steel and aluminum.

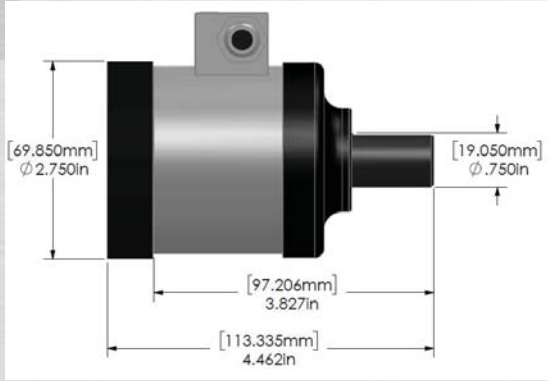
ArcSafe™ Solid Mount

- ☑ **Highly Repeatable – Resets to +.002”(+.04mm)**
- ☑ **Rugged Design – Hardened tool steel in contact and wear points.**
- ☑ **Common Work Envelope – Interchangeability when changing out competitive brands.**
- ☑ **Robust E-Stop Control Cable/Connector – Heavy control cable and robust connector mean less downtime because of cable issues.**
- ☑ **Protection in the Mx, My, Mz and Fz Directions**
- ☑ **Arm Mounting Post – Hardened tool steel and flat surface for fast, precise wedge pin mounting of torch arms.**
- ☑ **Quick Field Replaceable Switch Assembly.**
- ☑ **Easy Sensitivity Adjustment.**
- ☑ **Air Assist - standard**
- ☑ **Quick Installation – Only four screws with common allen key wrench.**
- ☑ **Protective Seal Boot – Keeps weld spatter out of mounting screws and other critical areas for reduced downtime and maintenance.**
- ☑ **Manufactured by American Weldquip in Wadsworth, Ohio so you are always guaranteed the quality you can trust.**

Technical Specifications – ArcSafe™, ArcSafe™-SW

Weight - 1lb. 9 oz. (.709 KG)
Repeatability - + .002" (+ .04mm)
Range Of Travel - 20˚ Pivot, 360˚ Rotation
.50" (12.7mm) Compression

Spring Force-
Mx, My = 93 in-lbs
Mz = 168 in.lbs.
Fz = 172 lbs.



HOW TO ORDER

PART NUMBER	DESCRIPTION
AH1881	ARCSAFE™ ROBOTIC COLLISION SENSOR (includes sensor cable)
ASW2000	ARCSAFE™-SW FOR USE WITH ROBOTIC COLLISION DETECTION SOFTWARE
AS-B-A-A	ARCSAFE™ SOLID MOUNT, ALUMINUM
AS-B-A	ARCSAFE™ SOLID MOUNT, STEEL
901696	ARCSAFE™ COLLISION SENSOR CABLE (20')

AMERICAN WELDQUIP ROBOTIC TORCH MOUNTING ARMS

CNC machined from solid aluminum bar stock to guarantee accuracy and rigidity. All American Weldquip brackets incorporate a "Flange Lock" mounting feature which guarantees TCP accuracy and orientation when replacing the **ArcSafe™** or torch mount. The unique, precision machined torch/gooseneck locating flat insures repeatability in the event of torch/gooseneck or arm change out.

Torch Mounting Arms and Insulating Disks Are Manufactured By American Weldquip In Wadsworth, Ohio So You Are Always Guaranteed The Quality You Can Trust.

HOW TO ORDER

PART NUMBER	DESCRIPTION
AS-B-23	23° MOUNTING BRACKET (335MM TCP) FOR USE WITH 22° GOOSENECKS
AS-B-23L	23° MOUNTING BRACKET (400MM TCP) FOR USE WITH 22° GOOSENECKS
AS-B-3.98	90° MOUNTING BRACKET (3.98" /101MM CENTER LINE) FOR USE WITH 45° GOOSENECKS
AS-B-4.25	90° MOUNTING BRACKET (4.25" /108MM CENTER LINE) FOR USE WITH 45° GOOSENECKS
AS-B-4.50	90° MOUNTING BRACKET (4.50" /114MM CENTER LINE) FOR USE WITH 45° GOOSENECKS
AS-B-5.39	90° MOUNTING BRACKET (5.39" /137MM CENTER LINE) FOR USE WITH 45° GOOSENECKS
AS-B-23-CB	23° MOUNTING BRACKET WITH LED LIGHT (335MM TCP) FOR USE WITH 22° GOOSENECKS