VeriFast™ IA FAQ

1. What is the VeriFast™ IA used for?

The VeriFast™ IA (**I**ntegrated **A**mplifier) is a weld pin position detection system. It can detect the position of the weld pin:

a) before feeding a fastener to ensure that the weld pin is fully raised

b) before welding to ensure that all parts are properly loaded and orientated

c) after welding to ensure that the correct setdown of the fasteners' projections has been achieved

d) before part ejection to ensure that the weld pin is in its fully retracted position.

2. What type of equipment can the VeriFast™ IA be used on?

Any projection welding machine that has analog input capability. This includes manually and automatically fed welders, robotic applications, pedestal type welders and transguns.

3. How do I know what style of weld body to use?

You can refer to the CenterLine website to access the following documents:

- VeriFast™ User Manual
- VeriFast™ IA Quick Reference
- Weld Fastener Application with VeriFast™ IA

There are a large variety of base mount, threaded, tapered, and clamp mount weld bodies to suit almost any application.

4. What is the maximum measurable pin stroke for VeriFast™ IA bodies?

22 mm and/or 50 mm pin stroke versions are available, depending on the VeriFast™ IA weld body configuration. Please refer to the VeriFast™ IA User Manual on our website www.cntrline.com for detailed information.

5. Can any pin be used in the standard VeriFast™ IA bodies?

No, only pins designed for the VeriFast™ IA family can be used with the VeriFast™ IA bodies.

6. What voltage does the VeriFast™ IA weld body require?

24 V DC, 40 mA.

7. What is the output signal from the VeriFast™ IA?

10 V DC analog.

8. What is the recommended analog input resolution requirement to achieve the best performance from the VeriFast™ IA application?

15 bit

9. How do I connect the VeriFast™ IA to the PLC or Control Solution?

A standard Micro 12mm, 4-pin shielded female cable is required.

10. Do I have to purchase the required cables from CenterLine?

No. The cable (pigtail) connected to the VeriFast™ IA body is included with the body (except for the Clamp Mount body), all others follow the M12 Micro standard (see number **9** above).

11. What is the maximum cable distance for a 0-10 V analog signal?

50 feet.

12. What is required to integrate the VeriFast™ IA to an existing machine?

It is recommended that the machine have a programmable HMI for setting positions and tolerances of the VeriFast™ IA. Suitable PLC code will also be needed. CenterLine can provide sample logic upon request.

13. Why is a tolerance window needed?

A tolerance window allows the process to operate within the fastener and material tolerance stacking.

14. What if the intended machine does not have a PLC?

Some modern weld controls have analog inputs that can be monitored in the weld schedule logic. If the weld control does not have the required 15 or 16 bit analog input, but does have available 24 V DC inputs, then you may be able to use **VeriFast™ Microview** for the VeriFast™ IA signal processing. If either of these features are not available, then you will need to add a PLC and HMI to the machine.

15. Can I get additional product information on the VeriFast™ IA?

For additional information about the VeriFast™ IA, visit our website at www.cntrline.com.

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Printed in Canada

FDP-VFA-IA-FAQ-1.0-0522