centerline® VeriFast™ Microview FAQ

1. Why do I need a MicroView?

   The MicroView 1.0 processes analog signals from an LVDT, LPT or other 0 to 10 V output into digital signals. If you cannot, or do not want to, use analog signals the MicroView enables you to use digital signals.

2. What type of equipment can the MicroView be used on?

   Any machine that has digital, 24 VDC PNP input and output capability. This includes manually and automatically fed welders, robotic applications, pedestal type welders and transguns.

3. What digital signals does the MicroView provide?

   5 per channel (2) plus Run and Teach mode. For an LVDT nut welding pin, these are broken down as: (P1) Pin Extended, (P2) Weld Position, (P3) Set Down, (P4) Pin Retracted. For an LPT these are broken down as: (P1) Gun Opened, (P2) Weld Position, (P3) Double Nut, (P4) No Nut. A Bypass bit is also included for each channel.

4. How many tolerance windows are available?

   8 total. 1 per position (4), per channel (2). Bypassed does not need a tolerance window.

5. Why is a tolerance window needed?

   The tolerance window allows the process to operate within the fastener and material tolerance stacking range. Both the projection weld fasteners and sheet metal are manufactured to an acceptable dimensional range for their intended use. If the sensing / control system is only designed to measure a specific point, then the allowable changes in dimensions will be missed. The tolerance is set to include the allowable dimensional changes and specific features of the fastener to determine if the “correct” monitoring condition is met.

6. How do I know which VeriFast Microview configuration to choose?

   There are 6 versions available:

   Channel 1/Channel 2
   LVDT/LVDT
   LVDT/LPT
   LVDT/Analog
   LPT/LPT
   LPT/Analog
   Analog/Analog

   When choosing which version, the customer needs to assess the application and which devices the MicroView needs to interface with.

7. What is the maximum cable distance from the VeriFast LVDT to the VeriFast Microview?

   The maximum cable distance from the VeriFast LVDT to the VeriFast Microview is 500 feet (150 m).

8. What is the maximum cable distance from the machine/robot to a VeriFast Microview?

   The maximum cable distance from the machine/robot to a VeriFast Microview is 500 feet (150 m).

9. What is the maximum cable distance for a 0-10v analog signal to the VeriFast Microview?

   The maximum cable distance for a 0-10v analog signal to the VeriFast Microview is 50 feet (15 m).

10. How many VeriFast LVDT bodies can be connected to a single VeriFast Microview at one time?

    Two VeriFast LVDT bodies can be connected to a single VeriFast Microview at one time.

11. Can I change the input type in the field?

    No, input type is not field serviceable by the customer. An authorized service technician can, in some circumstances.

12. Do all the outputs from the MicroView have to be connected?

    No. At a minimum, from one channel, P2, at weld position should be used. Also, we highly recommend using P1, pin extended. These outputs should see a change of state for each machine cycle under normal operating conditions.

13. What are the minimum input requirements to operate the VeriFast Microview?

    The VeriFast Microview requires 24vdc supply, at least one sensor connected to one of the sensor input channels and one of the schedule select inputs corresponding with the selected sensor input channel, usually binary select 1.

14. Is there anything special about the extension cable from the VeriFast LVDT body to the VeriFast LVDT-SC1 signal conditioner?

    The cable needs to be shielded. Standard M12 Micro connector, 5 pin with shield.

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

    No. The cable (pig tail) connected to the LVDT body is included with the body, all others follow the M12 Micro standard.

16. What is required to connect and set up the VeriFast Microview to an existing machine?

    The machine would need an available 24VDC supply, and a minimum of one PNP programmable input that can be programmed to see on and off status of each machine cycle. Some weld controls have this capability. Normally a PLC would be used with the same minimum requirement. There will also need to be, corresponding PLC code to manipulate inputs and outputs to change settings and /or notify/ stop process when proper conditions are not met. CenterLine can, upon request, provide sample PLC code to assist.

17. Can the VeriFast Microview connect directly to field bus such as Ethernet IP or ProfiNet?

    Yes. Our VeriFast MicroView connectorized version allows it to be wired to any type of I/O block with standard, double ended tool cords.

18. How many different jobs can I monitor with the VeriFast Microview?

    There are a total of 15 unique “schedules”. Each schedule can have its own ID.

19. What type of protection is there to prevent unauthorized access/changes to the VeriFast Microview?

    The VeriFast Microview has two levels of password protection. Level one provides monitoring, and teaching functionality. Level 2 provides access to setting language, tolerance, units of measure, scaling, password change and data download.

20. Can I purchase a single channel VeriFast Microview?

    No. The VeriFast MicroView is a dual channel device. Unless the 2nd channel is an LVDT, there is no added cost associated with it. If you are not sure what sensor type to select for the 2nd channel, we suggest the VeriFast Laser / 0-10v analog, as it offers a wide range of options.

    Note: There may be a requirement to use a custom field connector for a 0-10v analog device to make it compatible to the required pin out.

Head Office:
CenterLine Ltd.
415 Morton Drive, Windsor ON N9J 3T8 Canada
Tel: 519-734-8464, Toll Free: 800-820-6977
Fax: 519-734-2004
Email: info@cntrline.com

Sales & Technical Inquiries
Inside Sales

Toll Free Tel:
800-268-8330

Tel:
519-734-8330

Website: www.cntrline.com

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