



Still in the dark? Let FSI “light the way”



Is your maintenance staff still in the dark? FSI Technologies has shed some light on the problem! The “Indicoder” option is available exclusively on all FSI cube type encoders (ESE, RSE, HDE, etc*). With this option, LEDs (located on the body of the encoder) flash as the shaft is turned to instantly verify correct output operation. Because encoders are often the first step in a series of electrical connections and outputs on a machine, confirming its functionality can help rule out that it may be an encoder issue, thus expediting the troubleshooting process. Just ask for the “Indicoder” option when ordering your FSI cube encoder. (*formerly known as Fork Standards encoders) For more information on all FSI encoders, go to <http://www.fsinet.com/ECS-Encoder-Product-Selector.htm>

NeuroCheck Training in November

Join the engineers of FSI Technologies Inc. for our next round of Machine Vision/NeuroCheck software training. Classes will run November 5-7th in the western Chicago suburbs. Material covered will include machine vision “basics”, an overview of system hardware, lighting and lens selection, as well as NeuroCheck software tools, programming and example applications. For more information about our seminars contact FSI Customer Service at 1-800-468-6009 or go to <http://www.fsinet.com/Training-Overview.htm>.



More accessories you can use



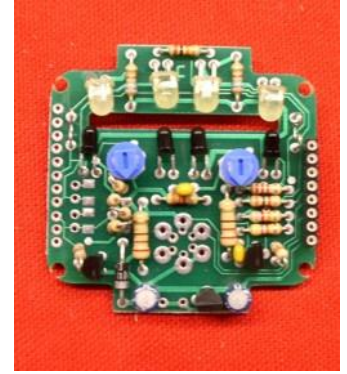
In addition to wide variety of encoders found on our website, you’ll find encoder accessories too. Whether you need measuring wheels and chariot mounting systems for measuring, counters to turn the output into motion information (length, speed, position) or flexible couplings to accurately couple the encoder to the machine –FSI has it all. For more information about these accessories and more visit:

<http://www.fsinet.com/ECS-Accessories.htm>.

FSI Machine Vision: Circuit Board Component Assembly Inspection

The FyrEye-4003 family of systems inspects assembled circuit boards to ensure the correct components are in the proper locations. It offers the benefits of automated inspection (24/7 operation) and can result in reduced labor costs. Example inspection functions include verifying:

- Presence and correctness of all components
- Quality of soldering
- Component mounting polarity
- Completeness and correctness of mask
- Proper component positioning and orientation/straightness.
- Color codes and labeling



The FyrEye-4003 is a family of systems, customized to your application and requirements. Your particular model will be from the same family, but will have different variations in equipment and capabilities. For more information about the FyrEye-4003 visit <http://www.fsinet.com/circuit-board-component-assembly-inspection-systems.htm>.

Sometimes, it's all in the details...

On-site environmental conditions and the details of part presentation can make a large difference in the overall cost of a machine vision solution.

In light of this, it is important that managers consider working with FSI Machine Vision expert to plan and pre-engineer the solution. Our Machine Vision experts will be able to provide feedback on the ramifications of the site conditions and the details of part presentation, and should be able to point out the potential benefits of making any changes. These benefits might include the success of the inspection, cost of the solution or ease-of-long term-ownership. Changes your Machine Vision expert might suggest are:

- To orient the parts more consistently
- To orient the parts in a way more conducive to machine vision
- To locate the parts more consistently
- To separate the parts to be viewed individually
- To create space for the machine vision solution. When thinking about fitting in the machine vision solution, many consider only the camera. A more demanding task is usually mounting the correct lighting in the right place.
- To reduce or eliminate interfering light

Having said this, both parties may also determine that “no changes” is the best course of action. In this case, the Machine Vision Engineer will design the solution to work around the existing conditions with the intention of inspecting the parts as they are presented.

In either case, machine vision is almost always a method worth considering when discussing the inspection of parts. If you're curious about the best way to inspect your products, please call one of our Engineers (630-932-9380) to discuss or visit our website at <http://www.fsinet.com/MV-Consulting.htm>.