PROCEDURE REF# A-MER-008

How to test a sensor in order to know if it still works

1. **Sensor installation & positioning**
   - The flat face of the sensor shall be about 6-7mm away from the steel surface it should detect.
   - The « black plastic » end of the sensor, shall not be too close as well from the « bracket » where you attach it. If the nuts is too close from the « black plastic » cover, the sensor shall be « **turned on** » all the time.
   - A wrongly positionned sensor, might get damage by moveable parts of the machine. Make sure to install the correctly.
2. **Validate sensor reactions to stimuli**
   - If the sensor **is already facing** a steel surface, you should normally see the LED light on the sensor turning on. If it light on.
     - Check on the computer screen diagnostic mode. The sensor status shall be green. If it's green, your sensor is working
     - If the sensor LED light is ON, but the sensor status in the diagnostic mode is RED, it mean your signal wire is cutted/damaged in between the sensor and the computer. Inspect wire.
   - If the sensor **is not facing** a steel surface, use a steel object and put it in reach of the sensor to stimulate the sensor and see if it react to stimuli and then check the sensor status in the diagnostic mode as explain above.
3. **Validate if sensor malfunction or electrical power issue**
   - If your sensor do not react to stimuli, take a new sensor, and connect it in place of a sensor that is currently lighted up, and make sure the new one you intend to use is working as well.
   - Now use that sensor, and replace the « defective » sensor
   - If replacing the sensor by a new one solve your problem, then your sensor was broken.
   - If by replacing the sensor, the new one do not « lighted up » or react to any stimuli, then most probably you don't have 12V power on the wire connected to that sensor. Go to Step #4
4. **12V electrical power supply issue**
   - Use a voltmeter, and validate you are having 12V power at the end of the connector linking the sensor and wires.
   - Inspect the wires up to the source to find out the source of the problem.