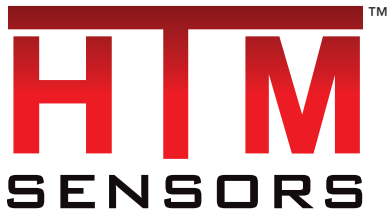


HTMTM
SENSORS

White Paper

Reducing
**Unplanned
Production Downtime**
Instances Due to Replacement of
Plastic and Ceramic Face Mini
Rectangular Sensors





Reducing Unplanned Production Downtime Instances Due to Replacement of Plastic and Ceramic Face Mini Rectangular Sensors

Continuous Improvement Opportunity:

The HTM Sensors Cost Reduction Vending System has identified that this mig welding line had unplanned production downtime instances due to replacement of plastic and ceramic face miniature rectangular sensors.

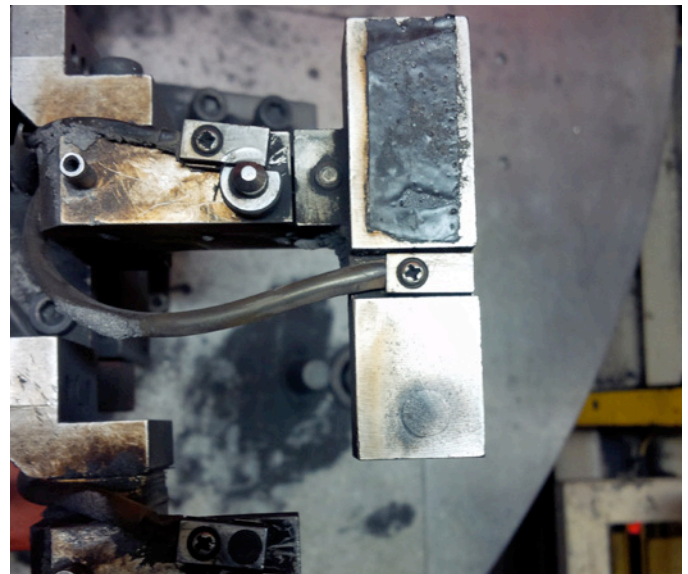
This is a robotic mig welding line for Instrument Panels that produces heat and weld spatter. All of the broken sensors are damaged by abrasion, heat and weld spatter.

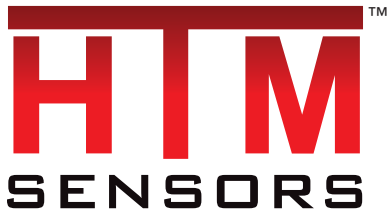
HTM Sensors performed an audit to determine which strategy will best eliminate costs and downtime related to this cable application.



Continuous Improvement Proposal:

HTM Sensors proposed running a trial of the new MQS1-8802P-A3U0.3/P8-PTFE-100C-S sensor on this line. This is the high temperature MetalHead™ version of the current sensor and has outlasted plastic and ceramic face sensors in similar mig welding applications.





Reducing Unplanned Production Downtime Instances Due to Replacement of Plastic and Ceramic Face Mini Rectangular Sensors

Result:

There are 18 small rectangular sensor applications on this mig welding line. **Over the past 10 months, 50 miniature rectangular sensors have been replaced** on the line due to impact, heat and abrasion. The average sensor life for the plastic face miniature rectangular sensors is 3.5 months.

On April 7th, two **MQS1-8802P-A3U0.3/P8-PTFE-100C-S** sensors were installed on the line for trial. These are high temperature MetalHead™ versions of the plastic face sensor.

Since the April installation, ZERO MQS1 sensors have been replaced giving these sensors an 8-month lifespan and still going. This is more than **2X the lifespan of the original plastic face sensors**. The **projected annual cost savings by implementing these sensors on the mig welding line is \$1,995.00** and the **elimination of 30 unplanned downtime instances**.

2X THE LIFETIME
OF THE
ORIGINAL
PLASTIC FACE
SENSORS

ELIMINATION OF
30 UNPLANNED
PRODUCTION
DOWNTIME
INSTANCES

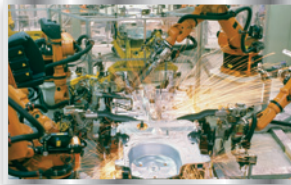
\$1,995
PROJECTED ANNUAL SAVINGS



MQS1-8802P-A3U0.3/P8-PTFE-100C-S



DOWNTIME REDUCTION VENDING SYSTEM



TOTAL COST SAVINGS WITH CONSIGNMENT SERVICE

- VENDOR MANAGED INVENTORY
- CONSIGNMENT STOCK
- CONTINUOUS IMPROVEMENT DATA
- AUTOMATED USAGE MONITORING

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