



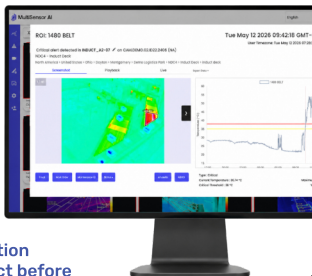
Automation & Robotics Faults

Losses in precision, timing, or flow are some of the earliest signs of impending automation and robotics faults. MSAI Connect helps surface emerging issues before they create mis-sorts, picking errors, stoppages, or system instability.

- ✓ Protect throughput and flow
- ✓ Reduce mis-sorts and picking errors
- ✓ Resolve intermittent faults faster

MSAI Connect detects the faults system alarms miss by correlating thermal, vibration, and environmental data — in a single unified view.

- Robotic joint and actuator degradation
- Conveyor and sortation faults
- Intermittent automation faults
- Sensor and vision system issues
- Cross-system flow disruptions
- Degraded high-speed gapping systems



MSAI Connect's continuous condition intelligence gives teams time to act before gradual degradation that develops between periodic inspections leads to operational failure.



Real-time, multi-sensor condition intelligence — without replacing your existing monitoring systems

MSAI Connect continuously collects and correlates mechanical and electrical signals across conveyors, sortation systems, robotic arms, AS/RS systems, and AMRs/AGVs, closing the gap left by isolated alarms and manual troubleshooting.

- No new standard work
- No dedicated reliability team required
- It operates above your existing monitoring, not in place of it

CASE STUDY

Sortation Conveyor Hotspot Detected Before Flow Disruption

Challenge

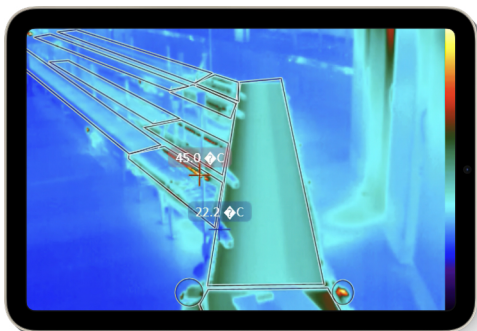
A localized thermal anomaly in an automated sortation conveyor was developing near a transfer point where friction, alignment issues, or component wear could disrupt material flow.

Detection

MSAI Connect identified a concentrated hotspot measuring approximately 45°C against a cooler surrounding baseline near 22°C, signaling abnormal heat buildup in a critical conveyor section.

Outcome

The team was able to inspect and correct the issue before it progressed into belt damage, sortation instability, or an unplanned stoppage.



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