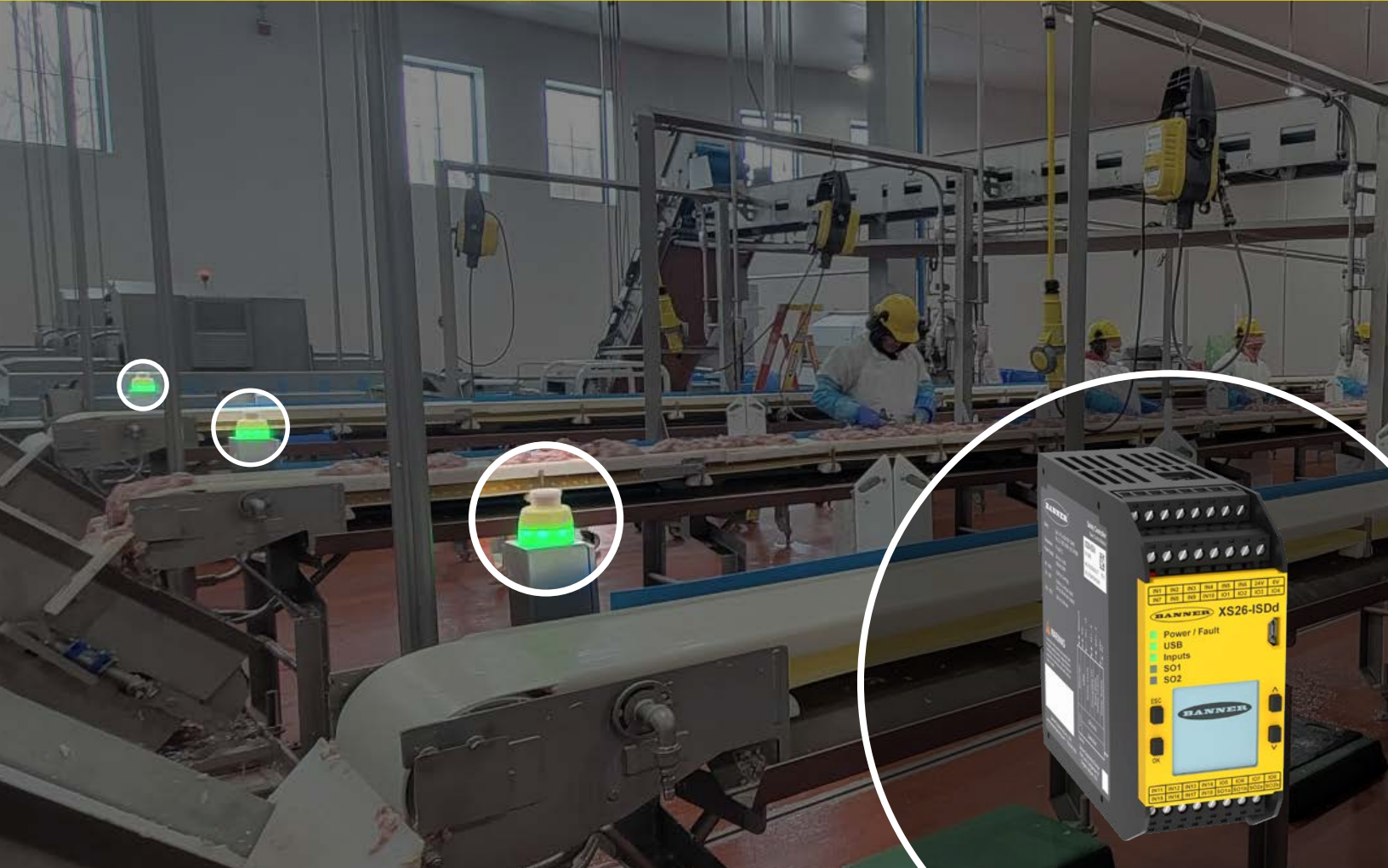# Advanced Diagnostics & Safety Systems, Remotely Accessed
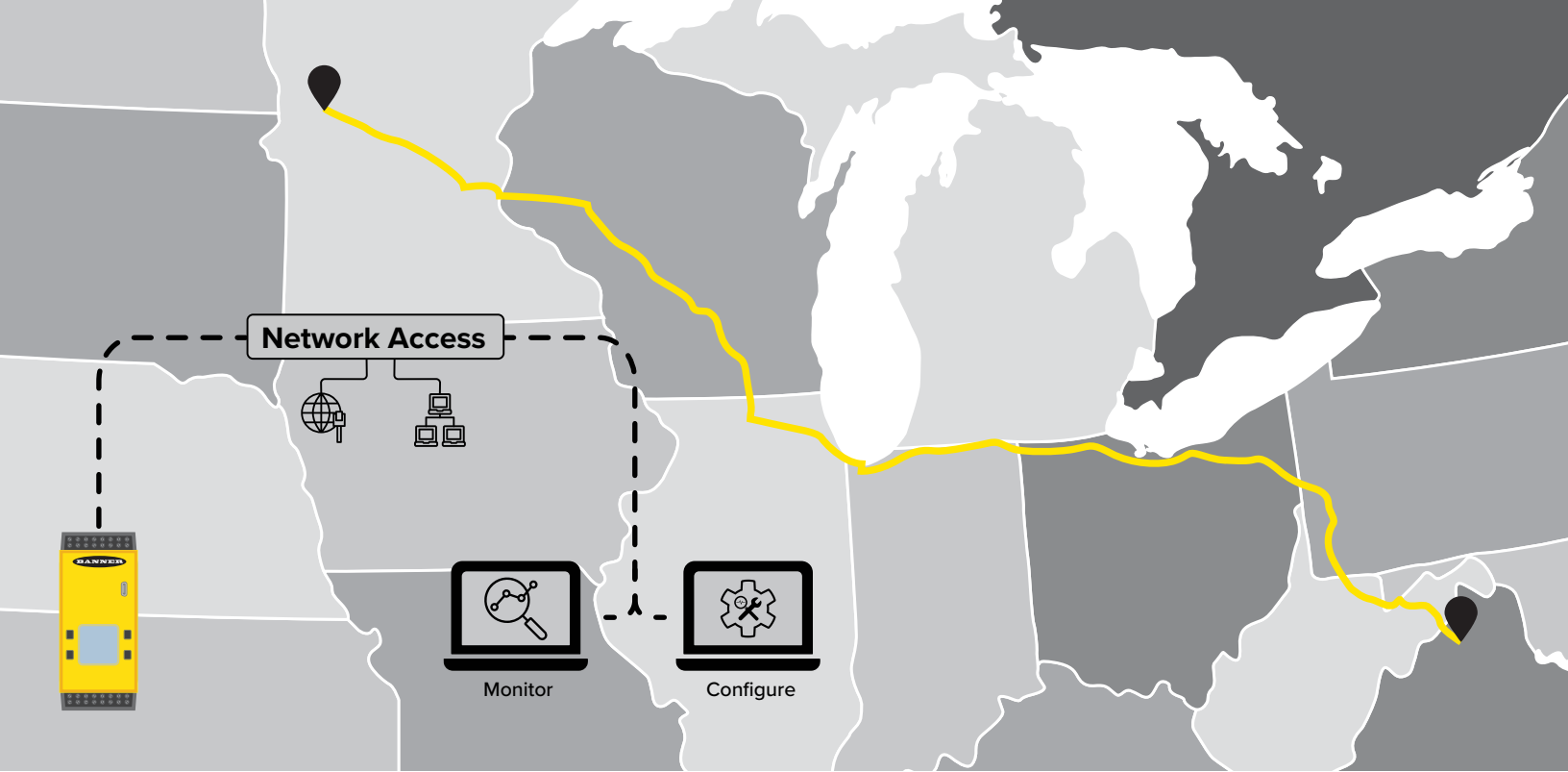

How a Company Runs Multiple Production Sites with One Control Room

Problem

An existing customer was expanding operations by opening a second site several states away. The company had already been using Banner In-Series Diagnostics (ISD) technology to monitor safety devices and collect actionable data, and it wanted to build upon its success by installing this safety system in the new facility. However, installing and setting up a new safety system would traditionally require the company's controls engineer to travel to the other site in order to access the safety controller and make adjustments. This would have been prohibitively expensive, not only in travel costs, but also in downtime. Ultimately, the company needed a safety system that could be installed easily and allow a controls engineer to monitor devices at multiple sites remotely.

Solution

To address these challenges, the customer turned to Banner's networkable safety controllers with In-Series Diagnostics. This made it possible for the company's controls engineer to securely access a controller through the network as if on site. The status of the safety system can be seen via live mode. A new configuration can then be sent to the controller and restarted via configuration mode. A single controls engineer can now manage multiple sites, reducing the need to travel. The engineer is also able to access advanced diagnostics information from the ISD devices and make necessary changes to the safety system before an issue arises. This reduces downtime and costs.

Network Access

Monitor   Configure

RFID SI-RFDT-HP8	**30mm Mount E-Stop** SSA-EB1PL	**Safety Controller** SC10-2ROE	**Expandable Safety Controller** XS26-ISDd	**ISD Connect** SSA-ISD-TCA	**Flush Mount E-Stop** SSA-EB1PL

Solution Benefits

- **Reduce costs:** One controls engineer can access multiple sites, reducing downtime and travel costs. ISD devices are plug and play using standard cabling, reducing installation costs.

- **Improve safety:** Adjust the safety system without delay, and without entering a potentially unsafe area to access the controller.

- **Collect real-time data:** ISD devices provide real-time data on system health, allowing for immediate action to be taken if readings fall outside of the pre-set thresholds.

- **Receive customizable alerts:** A networked controller can send alerts to an HMI or cloud system. This controller can then be accessed and adjusted through the network.

Connectivity Adapters

T Adapter for ISD Connection SI-RFA-TS	**ISD Termination Plug M12** SI-RFA-P