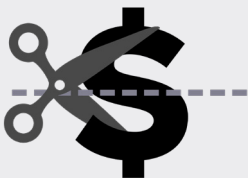# ISD Banner In-Series Diagnostics
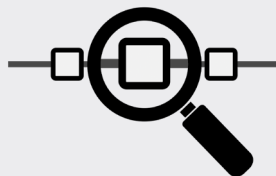


## Reduce and simplify wiring
Up to 32 plug-n-play devices with one in-series connection

Cut Costs

## Intuitive setup and PLC integration
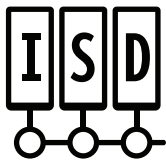Easy to use software and auto tag export

Simplify Installation/ Troubleshooting

## Prevent and reduce downtime
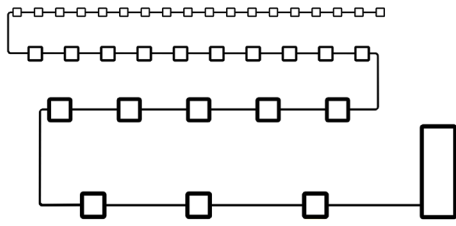Local operator guidance and remote actionable data

Prevent and Reduce Downtime

... all while achieving the highest level of safety.

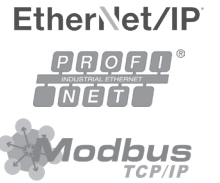**BANNER** ®
more sensors, more solutions

# Banner In-Series Diagnostics

In-Series Diagnostics, or ISD, is a communication protocol exclusive to Banner Engineering.

In-Series Diagnostics allows you to connect up to thirty-two devices with one in-series connection and communicate directly with the most commonly used PLCs.

EtherNet/IP

PROFINET INDUSTRIAL ETHERNET®

Modbus TCP/IP

When a Safety Event occurs the system receives an alert that includes information about which safety device tripped, making troubleshooting a breeze.

1234567890

74.5°C

13.7 V

Status: ON

Alignment: OK

08.0 mm

In-Series Diagnostics provides an array of additional data points for each In-Series Device used, including a unique tag value, internal temperature, voltage, and more, along with device-specific details such as the alignment and distance between a safety switch's sensor and actuator.

Additionally, the system sends warning alarms if devices are near to tripping, so that issues can be addressed before your machine shuts down.