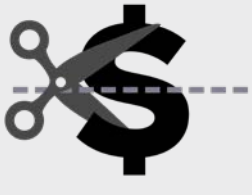
# Banner In-Series Diagnostics



**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



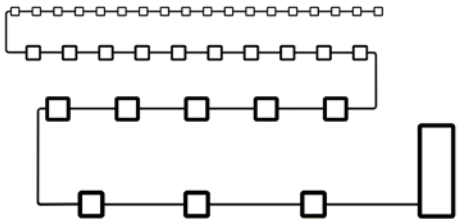
Prevent and Reduce Downtime

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

BANNER®

# Banner In-Series Diagnostics

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

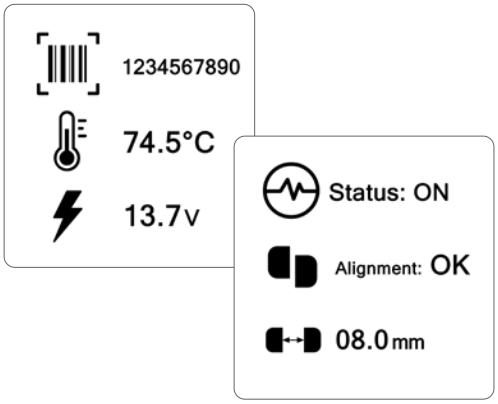


In-Series Diagnostics allows you to connect up to thirty-two devices with one in-series connection and communicate directly with the most commonly used PLCs.

EtherNet/IP
PROFINET
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.






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.



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