Smart Sensors: The eyes and ears of efficient machines and equipment

Unless you are aware of what is happening on machines installed in factories minute-by-minute, it is impossible to maintain optimum productivity and efficiency at all times, or to avoid unplanned downtime and loss of production. Conventional sensors typically give on or off status. They lack the capability to communicate diagnostic or parameter data to the controller.

An integrated Smart Sensor solution provides all the data required to create a comprehensive picture of the status of the machine or production line. As integral components of The Connected Enterprise, Smart Sensors are the first step in going from the real world to the virtual world.

Integrated Smart Sensor solutions can help provide at least

5-10%
Production Increase

Our Integrated Smart Sensor Solution

A truly connected enterprise has real-time control and information available across platforms and devices within the organization. When it comes to linking end point devices on the plant floor to The Connected Enterprise, our Integrated Architecture leverages smart sensors and I/O to deliver information, advanced functionality and flexibility, increasing efficiency machine- and plant-wide.
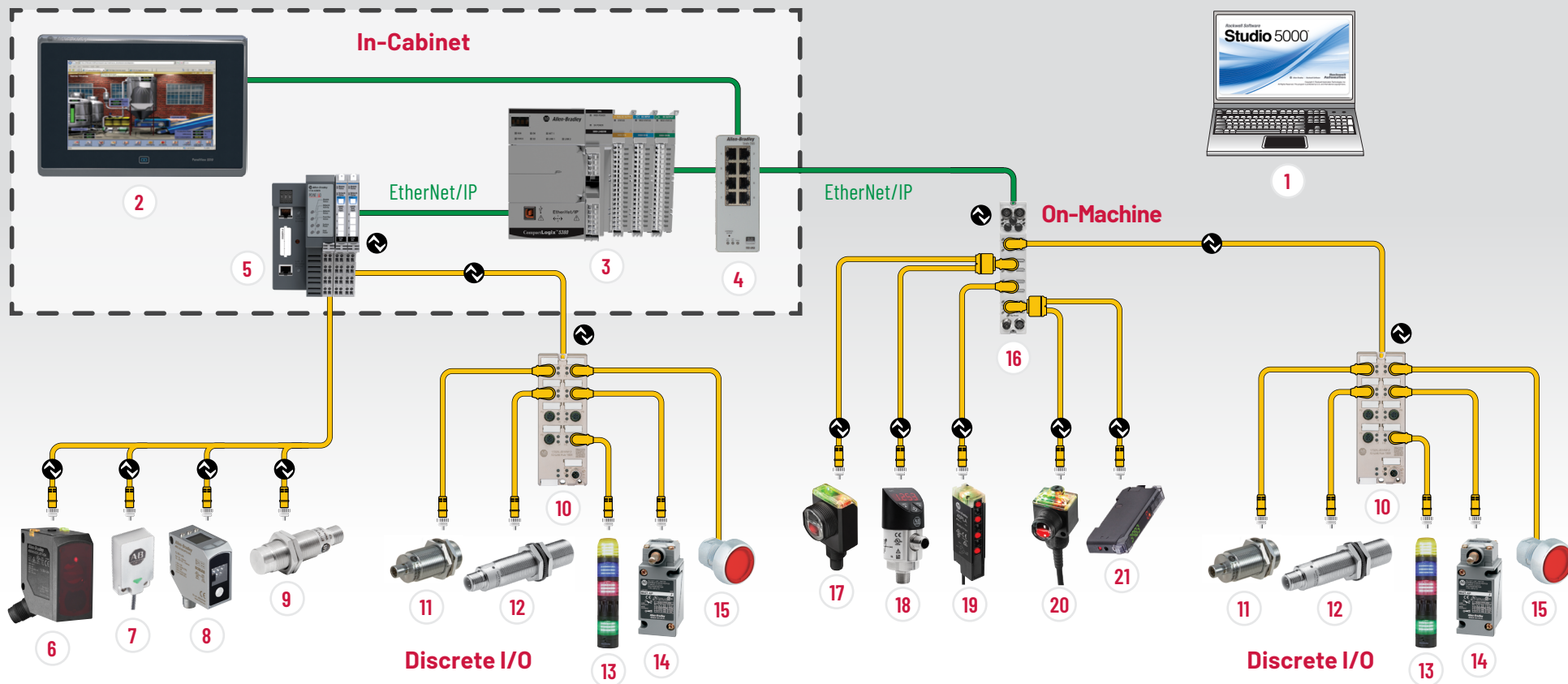
- Increase productivity
- Minimize downtime with continuous process and diagnostic data
- Enable faster product change-overs
- Speed-up machine commissioning
- Enable smarter machines for use in The Connected Enterprise

Rockwell Automation

In-Cabinet

EtherNet/IP

EtherNet/IP

On-Machine

Discrete I/O

Discrete I/O

Item Number	Description
1	Studio 5000®
2	PanelView™ 5510
3	CompactLogix™ 5380
4	Stratix Switch
5	1734-4IOL Point I/O IO-Link Master
6	45DMS Distance Measurement Sensor

Item Number	Description
7	871FM Mini Flat Pack Proximity Sensor
8	46CLR ColorSight™ True Color Sensor
9	871TM Tubular Stainless Steel Sensor
10	ArmorBlock IO-Link Hub
11	872C WorldProx™ Tubular General Purpose Inductive Proximity Sensor

Item Number	Description
12	871C Tubular Extended Temperature Sensor
13	856T Control Tower™ Stack Lights
14	802T Oiltight Limit Switch
15	800F 22 mm Round Operator
16	1732-E8IOLM12R ArmorBlock IO-Link Master

Item Number	Description
17	42AF RightSight™ M30 Sensor
18	836P Solid-State Pressure Sensor
19	45PLA Polarized Light Array Photoelectric Sensor
20	42EF RightSight™ Sensor
21	46DFA DIN Rail Fiber Optic Amplifier

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