

BALLUFF

Greater efficiency
in filling
and packaging

SMART AUTOMATION AND MONITORING SYSTEM

 *innovating automation*



SAMS – simpler, more flexible, intelligent

TRANSPARENCY LEADS TO OPTIMAL PERFORMANCE

Increasing the efficiency of machines and equipment requires high-performance, multi-functional solutions that provide not only machine control but also data about machine condition. This information lets you optimize the performance of every machine and thereby optimize the entire plant, so that you can design processes and sequences efficiently and flexibly. This information also enables full transparency. Changing requirements in filling and packaging are now able to be handled faster, more flexibly and economically.

It's good to know that using the innovative Smart Automation and Monitoring System (SAMS) from Balluff you have a system that lets you manage the automation of the entire production line uniformly and consistently. This is also interesting for the machine builder tasked with equipping the food and beverage, pharmaceuticals and cosmetics as well as the packaging industries.

In line with the "Take one" principle, all SAMS components – such as photoelectric, inductive or capacitive sensors, but also ID systems including RFID read/write heads, as well as positioning units, indicators or I/O modules can be uniformly configured, operated and quickly modified as requirements change. And there's more: through the use of the appropriate connectivity and network technology all the relevant data is brought together directly and in structured form, so that they can provide the basis for your condition monitoring and preventive maintenance.

Designed for more than 1000 cleaning cycles thanks to "Washdown plus", SAMS even exceeds the requirements of IP69K. All in all, the best prerequisites for ensuring your machines and the entire plant have a long service life. With less maintenance effort and greater equipment availability. This is optimal performance for extraordinary productivity.



From the single machine to the overall process

OPTIMAL PERFORMANCE

TAKE ONE

HEALTH

Status messages let you quickly detect and localize errors (condition monitoring). This information is always available to you uniformly, everywhere and directly – whether via the colored LED indicator directly on the device or on dashboards for further analysis (predictive maintenance). You can visualize this information as graphics, represent it in charts, or output it as reports. Now you are informed about each individual sensor, every machine and your entire production, you are able to recognize trends and plan replacement or optimal maintenance for just the right time. Together with our powerful network technology and cloud computing, intelligent manufacturing and Industrial Internet of Things (IIoT) become reality. To this end an edge gateway production and IT level can be seamlessly linked.

SMART FEATURES

With their consistent design, the housing, connector and fastening of the components form a unit, thereby installation and connection are easily accomplished. Once placed in service, the devices having the added function are turned into data sources which you can use for reliable operation of your equipment. For example, using temperature monitoring, relative humidity measurement, inclination detection, vibration monitoring, signal quality display, operating hours counters or time functions. Such features eliminate the need for additional devices with a monitoring function, significantly reducing your inventory levels. In addition, each component can be uniquely located within the system by pinging. As a result, any desired sensor can be quickly pinpointed.

WASHDOWN PLUS PROMISE

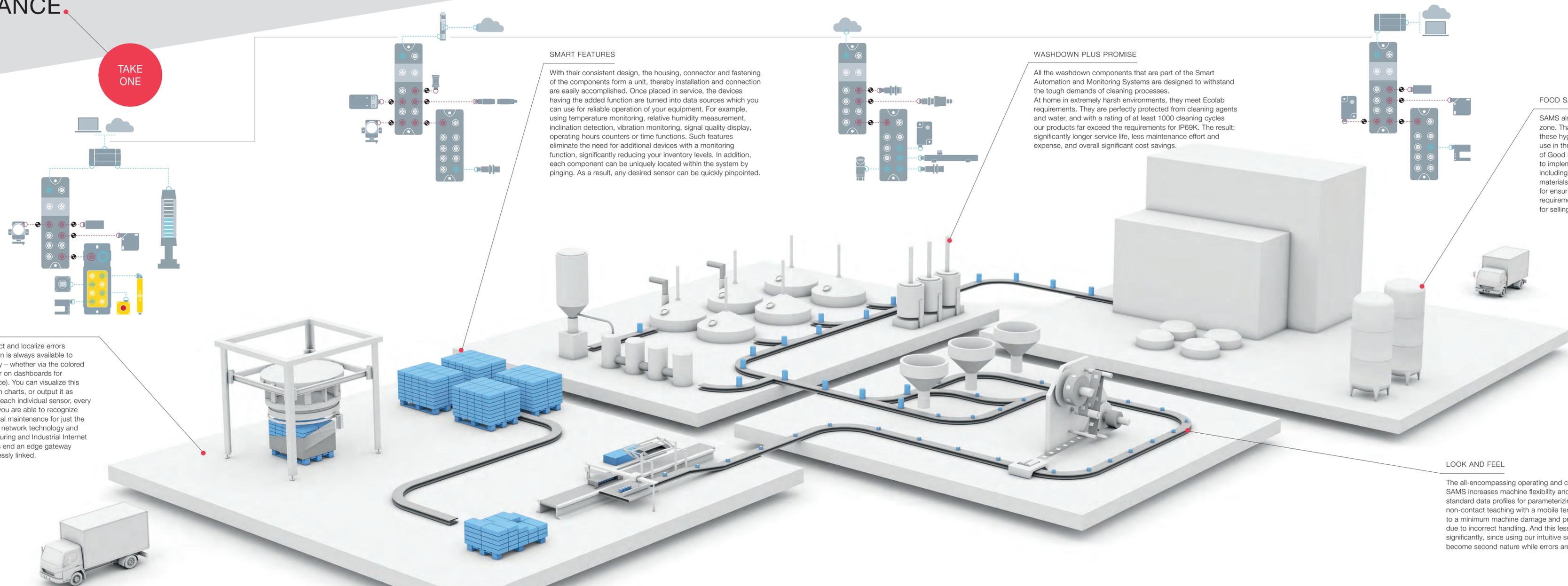
All the washdown components that are part of the Smart Automation and Monitoring Systems are designed to withstand the tough demands of cleaning processes. At home in extremely harsh environments, they meet Ecolab requirements. They are perfectly protected from cleaning agents and water, and with a rating of at least 1000 cleaning cycles our products far exceed the requirements for IP69K. The result: significantly longer service life, less maintenance effort and expense, and overall significant cost savings.

FOOD SAFETY

SAMS also offers you outstanding solutions for the hygienic zone. Thanks to contamination resistant surfaces and materials these hygienic components meet all the hygiene standards for use in the food contact zone. Our products meet the provisions of Good Manufacturing Practice, so that you too are easily able to implement a GMP conformal quality management system including documentation. Use of data matrix code means the raw materials used in each product are traceable at any time. Essential for ensuring the highest product quality and maintaining all the requirements of the health authorities (EU 1935/2004/EC) needed for selling your product.

LOOK AND FEEL

The all-encompassing operating and configuration concept of SAMS increases machine flexibility and availability. You can use standard data profiles for parameterizing, configuring and even non-contact teaching with a mobile terminal device. This reduces to a minimum machine damage and production stoppages due to incorrect handling. And this lessens your training effort significantly, since using our intuitive solutions, they quickly become second nature while errors are consistently prevented.



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