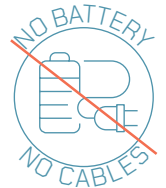


Smart Sense

PNEUMATIC SENSOR S101-PN11



The S101-PN11 sensors are intelligent switches based on energy harvesting technology and they **do not require any form of active power supply.**

Any time the embedded pneumatic piston of the sensor is actuated, the sensor transmits a unique data packet that can be received by one or more listening gateways within a range. The sensor can be connected directly at the output of a generic pneumatic valve or in parallel to any pre-existing pneumatic circuit of a machine, equipment or workstation. The data collected by the gateway allow for real-time monitoring of process parameters such as cycle time, production rate and efficiency.

MAIN FEATURES:

- Sensors based on energy harvesting technology (battery-free and cable-free)
- Simple, inexpensive and modular solution
- Allows monitoring of any type of machine/equipment/workstation in minutes
- Efficient and robust wireless radio transmission
- Real-time monitoring of the production process and resources
- Global localization of assets
- Centralized and Cloud-based data collection, presentation and analysis
- Managing and logging of maintenance operations with automatic notification

FEATURES AND DIMENSIONS

Actuation	Built in piston (pipe $\varnothing 6 \times 4$ mm)
Working pressure range	2÷6 bar
Mass	45 g
Body material	PA66 + 30% glass fiber
IP rating	IP65
Power supply	Self-powered (no battery, no wires)
Temperature range	from -10°C to $+80^{\circ}\text{C}$
Radio frequency	868 MHz
Signal coverage	10-80 m (depending on layout)
Certifications	EN60950-1, ETSI 301 489-1 V.2.1. ETSI 301 489-3 V.2.2.2 ETSI EN302802

