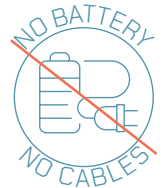


# Smart Sense

## MECHANICAL SENSOR S101-ME11



The S101-ME11 sensors are intelligent switches based on energy harvesting technology and they **do not require any form of active power supply**.

Any time the switch is pressed or released, it transmits a unique data packet that can be received by one or more listening gateways within a range. The physical actuation of the sensor can be done directly by a moving part of an existing apparatus (some examples: opening/closing of molds, approaching of prismatic joints or cam driven actuations) or remotely (using for example a bowden cable). 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	Lever/Push button
Min actuation force	12 N
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°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

